BULLETIN
of the
THE GRADUATE SCHOOL
MISSISSIPPI STATE UNIVERSITY

ANNOUNCEMENTS
2011-2012

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.
ACCREDITATION

Mississippi State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate, masters, specialist, and doctorate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Mississippi State University.

Accreditation Board for Engineering and Technology
Accreditation Council for Cooperative Education
American Animal Hospital Association
American Association of Family and Consumer Sciences
   (formerly American Home Economics Association)
American Association of Colleges for Teacher Education
American Association of Laboratory Animal Care
American Chemical Society
American Dietetic Association
American Psychological Association
American Society of Landscape Architects
American Veterinary Medical Association
Associated Landscape Contractors of America
Association to Advance Collegiate Schools of Business
Computing Accreditation Commission
   (Formerly Computer Sciences Accreditation Board)
Council for Accreditation of Counseling and Related Educational Programs
Council on Rehabilitation Education
Council on Social Work Education
Foundation for Interior Design Education Research
Masters in Psychology Accreditation Council
National Architectural Accrediting Board
National Association of School Psychologists
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.
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CORRESPONDENCE DIRECTORY

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

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

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

For information regarding Mississippi State University transcripts.

Assistantships
Please contact the appropriate department.

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

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

International Services
Office of Admissions and Scholarships
Box 6334
200 Montgomery Hall
Mississippi State, MS 39762
Website: www.admissions.msstate.edu/international/
Telephone: 662-325-8929

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.

Students at Mississippi State University are responsible for knowing and complying with all requirements for their respective degrees as stated herein.
GRADUATE ACADEMIC CALENDAR
2011-2012

Fall Semester 2011

July 1* ...................................................... Last day for domestic applicants to complete admission process for Fall
August 1-5 ........................................................ International Teaching Assistant Workshop
August 5 ...................................................... Last day for initial submission of thesis/dissertation to Library for December graduation
August 9-10 .................................................... General Teaching Assistant Workshop
August 12 ..................................................... Last day for final submission of Library-approved thesis/dissertation to Library
August 15-16 .................................................. Final registration and payment of fees
August 16 (9:00 AM) .................................. “Find Your Feet” New International Graduate Student Orientation
August 16 (2:00 PM) .................................... New Graduate Student Orientation
August 17 ...................................................... Classes begin
August 23 ..................................................... Last day to drop a class without a grade
August 24 ..................................................... Last day to register or to add a course

September 1* ........................................... Last day for international applicants to complete Spring admission process
September 5 .................................................. Holiday
September 15 ................................................ Thursday Game Day (no classes)
September 29 .............................................. Last day to drop a course with a W grade

October 7 ...................................................... Mid-point of semester
October 14 .................................................. Deadline to apply for December graduation via MyState; $50 fee
October 15-October 31 ................................ Late December graduation application via MyState; $50 fee plus $50 late fee
October 25- November 2 ............................ Faculty advising for preregistration
October 28 .................................................. Last day/thesis/dissertation defense or non-thesis comprehensive exam/Dec graduation

November 1* ............................................. Last day for domestic applicants to complete Spring admission process
November 1 .................................................. Last day for doctoral preliminary/comprehensive examination for May graduation
November 1-18 ........................................ Very late application for December graduation via MyState; $50 fee plus $200 late fee
November 3-11 ........................................... Primary Spring pre-registration
November 4 ................................................ Last day for initial submission of thesis/dissertation to the Library for December graduation
November 11 .............................................. Last day to submit signed examination results to the Graduate School for December graduation
November 14 ............................................. Last day to withdraw from the University
November 18 ................................................ Last day to apply for December graduation
November 21-25 ....................................... Fall Break and Thanksgiving Holiday
November 28 ............................................... Classes resume

December 2 ................................................. Classes end
December 2 ................................................ Last day to submit Library-approved thesis/dissertation to Library for December graduation
December 5, 6, 7, 8, 9 ........................................ Final examinations
December 9 (7:00 P.M.) .............................. Commencement ceremony for all colleges
December 9 ................................................ Last day for submission of thesis/dissertation to Library
December 21-January 2 ............................... Holiday
Spring Semester 2012

January 4-5................................................................................................................................. General Teaching Assistant Workshop
January 6......................................................................................................................................... New Graduate Student Orientation
January 6......................................................................................................................................... Final registration and payment of fees
January 9.......................................................................................................................................... Classes begin
January 9-February 29 .................................................................................................................. Apply online for May graduation; $50 fee
January 13...................................................................................................................................... Last day to drop a class without a grade
January 16...................................................................................................................................... Last day to withdraw from the University
January 17...................................................................................................................................... Last day to register or add a class

February 1.................................................................................................................................. Last day for doctoral preliminary/comprehensive examination/August graduation
February 20.................................................................................................................................. Last day to drop a course with a W grade
February 27.................................................................................................................................. Mid-point of semester

March 1*....................................................................................................................................... Last day for international applicants to complete admission process for all Summer terms
March 1-23...................................................................................................................................... Late application via MyState for May graduation; $50 fee plus $50 late fee
March 9........................................................................................................................................... Spring Break begins at end of class day
March 19......................................................................................................................................... Classes resume
March 20-30..................................................................................................................................... Faculty advising for preregistration
March 23.......................................................................................................................................... Last day/thesis/dissertation defense and non-thesis comprehensive exam/May graduation
March 24-April 13 ........................................................................................................................ Very late application via MyState for May graduation; $50 fee plus $200 late fee

April 1*....................................................................................................................................... Last day/domestic applicants to complete admission process for Maymester, 10-week Summer
April 5 (Thursday)...................................................................................................................... Last day to submit signed examination results to the Graduate School/May graduation
April 2-12 ...................................................................................................................................... Primary registration for Summer and Fall semesters
April 6............................................................................................................................................. Holiday
April 11.......................................................................................................................................... Final day to withdraw from the University
April 13........................................................................................................................................... Final deadline to apply for May graduation
April 25......................................................................................................................................... Final day to drop a course with a W grade
April 26-27..................................................................................................................................... Reading, make-up days
April 27.......................................................................................................................................... Last day for submission of Library-approved thesis/dissertation to the Library/May graduation
April 27...................................................................................................................................... Last day for initial submission of thesis/dissertation to Library for August graduation and no Summer enrollment required
April 30-May 4 .............................................................................................................................. Final examinations

May 1* ........................................................................................................................................ Last day for domestic applicants to complete admission process for 2nd Summer term
May 1* ........................................................................................................................................ Last day for international applicants to complete admission process for Fall

May 11, 7:00 P.M. ........................................................................................................................... Commencement
Bagley College of Engineering
Swalm School of Chemical Engineering
College of Veterinary Medicine (Master’s & Ph.D. degrees)
College of Agriculture & Life Sciences
School of Human Sciences
College of Forest Resources
College of Education

May 12, 10:00 A.M. ........................................................................................................................ Commencement
College of Arts & Sciences
College of Architecture, Art & Design
School of Architecture
College of Business
Adkerson School of Accountancy
Summer Semester 2012

Maymester (part of term 0)
May 8 ................................................................................................................................................ Final registration and payment of tuition and fees
May 9 ................................................................................................................................................ Classes begin
May 9 ................................................................................................................................................ Last day to drop a class without a grade (1st class day)
May 9 ................................................................................................................................................ Last day to drop a course without a grade
May 10 ................................................................................................................................................ Classes meet
May 15 ................................................................................................................................................ Last day to apply via MyState for August graduation; $50 fee
May 24 ................................................................................................................................................ Last day to withdraw from the University
May 28 ................................................................................................................................................ Holiday
May 29 ................................................................................................................................................ Classes end
June 1 .................................................................................................................................................. Reading Day
June 2 .................................................................................................................................................. Finals

1st 5-Week Term (part of term 2)
May 31, June 1 ................................................................................................................. Final registration and payment of tuition and fees
June 4 ................................................................. Last day for doctoral preliminary/comprehensive examination/December graduation
June 4 ................................................................................................................................................ Classes begin
June 5 ................................................................................................................................................ Last day to drop a class without a grade
June 5 ................................................................................................................................................ Last day to register or add a class
June 15 .............................................................................................................................................. Last day to apply via MyState for August graduation; $50 fee
June 21 .............................................................................................................................................. Last day to drop a class
June 22 ............................................................................................................................................ Last day to withdraw from the University
June 22 ................................................................................................................................................ Classes end
July 2 .................................................................................................................................................. Final examinations
July 4 .................................................................................................................................................. Holiday
July 14-August 1 ................................................ Very late application via MyState for August graduation; $50 fee plus $200 late fee

2nd 5-Week Term (part of term 3)
June 15 ........................................................................................................................................... Last day to apply to apply via MyState for August graduation; $50 fee
June 16-July 13 ................................................ Late application via MyState for August graduation; $50 fee plus $50 late fee
June 29 ........................................................................................................................................... Late day/thesis/dissertation defense and non-thesis comprehensive exam/August graduation
July 1 ............................................................................................................................................ Last day for domestic applicants to complete admission process for Fall
July 3 ................................................................................................................................................ Final registration and payment of tuition and fees
July 4 ................................................................................................................................................ Holiday
July 5 ................................................................................................................................................ Classes begin
July 6 ................................................................................................................................................ Last day to drop a course without a grade (1st class day)
July 6 ................................................................................................................................................ Last day to register or add a class (2nd class day)
July 6 .............................................................................................................................................. Last day to submit signed examination results to the Graduate School/August graduation
July 6 ................................................................................................................................................ Last day for first submission of thesis/dissertation to the Library/August graduation
July 14-August 1 ........................................ Very late application via MyState for August graduation; $50 fee plus $200 late fee
July 24 ................................................................................................................................................ Classes end
July 25 ................................................................................................................................................ Last day to drop a class
July 27 ............................................................................................................................................. Last day to submit Library-approved thesis/dissertation to Library for August graduation
August 1 ........................................................................................................................................... Classes end
August 2 ........................................................................................................................................ Reading day
August 3, 6 .................................................................................................................................... Final examinations
August 10 ...................................................................................................................................... Last day for submission of thesis/dissertation to Library
for December graduation and no Fall enrollment required
August 11 ........................................................................................................................................ Graduation (no ceremony)
10-Week Term (part of term 1)

May 31, June 1 ................................................................. Final registration and payment of tuition and fees
June 1 ................................................................. Last day for doctoral preliminary/comprehensive examination/December graduation
June 4 ........................................................................................................... Classes begin
June 5 ........................................................................................................... Last day to drop a class (2nd class day)
June 6 ........................................................................................................... Last day to register or add a class (3rd class day)
June 15 ........................................................................................................... Last day to apply via MyState for August graduation; $50 fee
June 16-July 13 ................................................ Late application via MyState for August graduation; $50 fee plus $50 late fee
July 1 .................................................................. Last day/thesis/dissertation defense and non-thesis comprehensive exam/August graduation
July 3-4 ........................................................................................................... Break for 10-week term
July 6 ........................................................................................................... Last day to submit signed examination results to the Graduate School/August graduation
July 6 ........................................................................................................... Last day for initial submission of thesis/dissertation to the Library/August graduation
July 9 ........................................................................................................... Classes resume
July 14-August 7 ................................................ Very late application via MyState for August graduation; $50 fee plus $200 late fee
July 16 ........................................................................................................... Last day to drop a class (28th class day)
July 23 ........................................................................................................... Last day to withdraw from the University
July 27 ........................................................................................................... Last day to submit Library-approved thesis/dissertation to the Library/August graduation
August 1 ........................................................................................................... Classes end
August 3, 6 .............................................................................................. Final examinations
August 10 ....................................................................................................... Last day for initial submission of thesis/dissertation to Library for December graduation and no Fall enrollment required
August 11 ....................................................................................................... Graduation (no ceremony)

*Applications received after this date are not guaranteed consideration for admission.
Please refer to departmental/program listings in this publication for program specific admission deadlines.

View the University Academic Calendar online at
www.registrar.msstate.edu/Calendars/academiccal.html

ALL DATES SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.
MISSISSIPPI BOARD OF TRUSTEES
OF STATE INSTITUTIONS
OF HIGHER LEARNING

Officers of the Board

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ED BLAKESLEE ............................................................................ Vice President
HANK M. BOUNDS .......................................................... Commissioner of Higher Education

Members with terms expiring May 2012

L. STACY DAVIDSON, JR. ............................................. Cleveland
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The Board maintains offices at
3825 Ridgewood Road
Jackson, Mississippi.
OFFICERS OF THE UNIVERSITY

MARK E. KEENUM, Ph.D. .................................................................................................................................................... President

***

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The Academic Deans

RICHARD L. BLACKBOURN, Ed.D................................................................. Dean of the College of Education
FRANCES N. COLEMAN, M.L.S. ................................................................. Dean of University Libraries
LOUIS D'ABRAMO, Ph.D. .................................................................................. Dean of the Graduate School
KENT H. HOBLET, D.V.M., M.S. ................................................................. Dean of the College of Veterinary Medicine
GEORGE M. HOPPER, Ph.D. ........................................................................ Dean of the College of Forest Resources
GEORGE M. HOPPER, Ph.D. ........................................................................ Dean of the College of Agriculture and Life Sciences
DENNIS MITCHELL, Ph.D. ................................................................................. Interim Dean of MSU Meridian Campus
GARY MYERS, Ph.D. .......................................................................................... Dean of the College of Arts and Sciences
SHARON OSWALD, Ph.D. ........................................................................................ Dean of the College of Business
SARAH A. RAJALA, Ph.D. .............................................................................. Dean of the James Worth Bagley College of Engineering
JAMES L. WEST, M.Arch. ................................................................................. Dean of the College of Architecture, Art, and Design

Dr. Tommy Stevenson, Director of Diversity and Equity Programs, 106 McArthur Hall, PO 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  
www.grad.msstate.edu/faculty/gradcouncil/

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 Dean of the Graduate School on any matter they, or the Dean, 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 fewer 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 include the Dean of the Graduate School; Associate Dean of the Graduate School; Provost and Vice President for Academic Affairs; Associate Provost; Associate Vice President for Administrative Services; Vice President for Research and Economic Development; Dean of University Libraries; Director of Academic Outreach and Continuing Education; Director of International Institute; Chairman of University Committee on Courses and Curricula; Associate University Registrar; and Director of Institutional Effectiveness.

Juan Silva, Ph.D., 2014, Elected, Chair  
Professor of Food Science, Nutrition  
and Health Promotion  
College of Agriculture and Life Sciences

David L. Monts, Ph.D., 2012, Elected, Vice Chair  
Professor of Physics  
College of Arts and Sciences

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

Benjy Mikel, Ph.D.  
Director of International Institute

Angi Bourgeois, Ph.D.  
Chair, University Courses and Curricula Committee

Tim Chamblee, Ph.D.  
Director of Office of Institutional Effectiveness

Karen Coats, Ph.D.  
Interim Associate Dean of the Graduate School

Frances N. Coleman, M.L.S.  
Dean of University Libraries

Louis R. D’Abramo, Ph.D.  
Dean of the Graduate School and Associate Vice President for Academic Affairs

Jerome A. Gilbert, Ph.D.  
Provost and Vice President for Academic Affairs

Julia E. Hodges, Ph.D.  
Associate Vice President for Administrative Services  
Office of the Provost

Sharon Nobles, M.A.  
Associate University Registrar

Peter L. Ryan, Ph.D.  
Associate Provost, Office of the Provost

David R. Shaw, Ph.D.  
Vice President for Research & Economic Development

Elected Members
Ed Allen, Ph.D., 2012  
Associate Professor of Computer Science and Engineering  
College of Engineering

Dan Seale, Ph.D., 2012  
Professor of Forest Products  
College of Forest Resources

Timothy Barnett, Ph.D., 2013  
Professor of Management  
College of Business
Burnette Hamil, Ph.D., 2013
Professor of Curriculum, Instruction, and Special Education
College of Education

Russell L. Carr, 2013
Associate Professor of Basic Science
College of Veterinary Medicine

David Lewis, Ph.D., 2014
Associate Professor of Architecture
College of Art, Architecture, and Design

Appointed Members
Kathy Dooley, Ph.D., 2012
Professor of Counseling and Educational Psychology
College of Education

Dwight Hare, Ph.D., 2012
Professor of Leadership and Foundations
College of Education

Daniel Reynolds, Ph.D., 2012
Professor of Plant and Soil Sciences
College of Agriculture and Life Sciences

Wes Schilling, Ph.D., 2012
Associate Professor of Good Science, Nutrition and Health Promotion
College of Agriculture and Life Sciences

Lara Dodds, Ph.D., 2013
Associate Professor of English
College of Arts and Sciences

Rafael Hernandez, Ph.D., 2014
Associate Professor of Chemical Engineering
Bagley College of Engineering

Dwayne Wise, Ph.D., 2014
Professor of Biological Sciences
College of Arts and Sciences

Aaron Rollins, 2012
President, Graduate Student Association
THE GRADUATE SCHOOL of
MISSISSIPPI STATE UNIVERSITY

THE GRADUATE SCHOOL MISSION
The mission of the Graduate School 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
✓ provide graduate students and faculty with an environment conducive to learning and scholarly activities.

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

HISTORY AND ORGANIZATION
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; its secondary mission was to train reserve officers for the U.S. Army. Departments in 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 master’s degrees, but the primary emphasis was educating young men for careers in an agrarian society, in farming or agricultural products processing and manufacturing. Little oversight of post-graduate programs existed until a Graduate Committee of the General Faculty was established in 1914; this committee functioned until 1936, when the need for greater oversight was recognized. Thus, 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 developed.

As graduate study expanded in the South following WWII, the Conference of Deans of Southern Graduate Schools exerted a positive influence to maintain the quality of the new graduate offerings. The graduate dean at Mississippi State became a key member of the Conference, and his guidance in program development resulted in the establishment of several strong research-based doctoral programs. The first doctoral degree was granted in agronomy in 1953, followed by sociology and later engineering. In 1958 Sputnik changed the face of graduate education and university research throughout the nation, and the school was renamed Mississippi State University. The overwhelming concern for higher education resulted in emerging Congressional support for graduate fellowship programs.

In 1960 a new MSU president modified the administrative infrastructure, positioning the University to make successful proposals for fellowships, research equipment and facilities, and faculty research support awards. The 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 to enforce quality criteria for existing graduate programs and ensure adherence to criteria by proposed new programs. All graduate programs received approval from the Graduate Council, the Academic Council, the President, and the Board of Trustees of the Mississippi Institutions of Higher Learning. Graduate programs flourished with support from the competitive institutional fellowship award programs funded by National Science Foundation (NSF), National Aeronautical Space Administration (NASA), the Office of Education, and Department of Defense (DOD). New doctoral faculty were recruited, the contract research program expanded, and additional doctoral programs, specialized institutes, and centers were approved. 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 due to the expanding research activity and the increase in graduate enrollment, the Graduate School was separated from the Office of Research and reported administratively to the Office of 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 Office of the Provost. In July 2004 the Office of Graduate Studies was realigned with the Office of Vice President for Research and Graduate Studies. In July 2006 the Office of Graduate Studies resumed reporting to the Office of the Provost, and the Director’s title was changed to Dean and Associate Vice President for Academic Affairs. In 2007 the name was changed to the Graduate School.

The Graduate Council remains the chief oversight body for all graduate programs. The Office of the Graduate School functions to maintain admissions records and
promote student services, while the policies of the Graduate Council are administered by the departments and colleges. Off-campus degree programs are now offered in specialized areas at various locations inside and outside of the State.

MSU 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 national developments, including federal programs supporting 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.

**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. MSU’s fundamental purpose is to develop knowledgeable and skilled citizens engaged in pursuing intellectual truth, help constitute an informed electorate, and contribute to economic growth and prosperity. MSU is committed to perform basic research to expand the bounds of knowledge, use applied research to translate knowledge into practice, provide service to institutions and organizations, and educate its students.

**Academic Freedom and Responsibility**—Freedom of inquiry and expression is fundamental to the idea of a university and to a democratic society. MSU affirms and vigorously defends this principle. At the same time, faculty are obligated to exercise good judgment, maintain the highest professional and personal standards of intellectual integrity, and ensure that the free exchange of ideas is marked by both accuracy and relevance of information to issues under consideration. The University 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 University’s learning, research, and service missions. Faculty and staff also recognize their shared accountability for the performance of the University in carrying out its mission.

**Curricular Offerings**—MSU 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 in preparation for productive careers and positions of leadership. Methods of inquiry and critical thinking are emphasized, enabling students to solve complex societal problems and engage in lifelong learning and exploration. As a comprehensive land-grant university, MSU serves both in-state and out-of-state students through instruction in engineering and agriculture and significant elements of the humanities, sciences, arts, business, and education. Besides a comprehensive range of undergraduate academic programs, MSU offers outstanding graduate programs, capitalizing on the unique ability of a research university to expand the horizons of its students.

**Educational Philosophy**—MSU’s primary responsibility is to provide a high quality education to all adequately prepared students. It seeks to give its students a lifelong love of learning; an appreciation of the cultural, intellectual, and historical aspects of the search for truth and knowledge; the opportunity for professional specialization; and development of greater emotional and social maturity. Students are expected to increase communication skills and understand cultural diversity while learning to think independently as they assess ideas, challenge orthodoxies, and criticize opinions. MSU 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 MSU. The University fosters an environment in which faculty, together with students, can establish and maintain high quality research to expand the frontier of human knowledge and provide practical applications of accumulated knowledge. The University utilizes the results of its research to improve the state and to enhance its competitiveness as well as the nation’s in a global society. Research is essential to the instructional mission of the University, bringing state-of-the-art knowledge into the classroom and inspiring superior undergraduate and graduate teaching and learning.

**Responsibility to Constituencies**—Mississippi State is responsive to numerous and rapidly changing constituencies. MSU 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. Its 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 all constituencies. This commitment includes sharing expertise through cooperative extension, technical assistance, professional development, and technology transfer.
GRADUATE DEGREES AND MAJORS

Mississippi State University offers the following graduate degrees and majors. University admission and degree completion requirements are located in the Graduate School section of this publication; specific program requirements are found in the respective department/program information.

“T” and “NT” indicate thesis and non-thesis.

Campus designations (1—Starkville, 2—Meridian, and 5—Distance) indicate the campus(s) at which the program is available.

Master of Agribusiness Management
Agribusiness Management (NT) [1]

Master of Arts
Applied Anthropology (T) [1]
Economics (T; NT) [1]
English (T; NT) [1]
Foreign Language (T; NT) [1]
History (T; NT) [1]
Interdisciplinary Sciences (NT) [5]
Political Science (T; NT) [1]

Master of Arts in Teaching
Community College Education (NT) [1, 2, 5]

Master of Arts in Teaching-Secondary
Secondary Teacher Alternate Route (NT) [1, 2, 5]

Master of Business Administration
Business Administration (NT) [1, 5]
Business Administration (NT) [2]
Concentration: Accounting
Project Management (NT) [1, 5]

Master of Engineering
Engineering (NT) [5]

Master of Landscape Architecture
Landscape Architecture (T) [1]

Master of Professional Accountancy
Accounting (NT) [1]
Accounting (NT) [1]
Concentration: Systems

Master of Public Policy and Administration
Public Policy and Administration (NT) [1]

Master of Science
Aerospace Engineering (T; NT) [1, 5]
Agricultural and Extension Education (T; NT) [1]

Agricultural Life Sciences
Concentrations:
Animal Physiology (T; NT) [1]
Biochemistry (T; NT) [1]
Entomology (T) [1]
Genetics (T; NT) [1]
Plant Pathology (T) [1]

Agriculture
Concentrations:
Agricultural Economics (T; NT) [1]
Agronomy (T; NT) [1]
Animal Nutrition (T) [1]
Animal Science (T; NT) [1]
Engineering Technology (T; NT) [1]
Horticulture (T) [1]
Poultry Science (T; NT) [1]
Weed Science (T) [1]

Biological Engineering (T) [1]
Biological Sciences (T) [1]
Biomedical Engineering (T) [1]
Chemical Engineering (T; NT) [1]
Chemistry (T) [1]
Civil Engineering (T; NT) [1, 5]
Computational Engineering (T; NT) [1]
Computer Engineering (T; NT) [1, 5]
Computer Science (T; NT) [1, 5]
Counselor Education (T; NT) [1, 2]
Educational Psychology (T; NT) [1]
Electrical Engineering (T; NT) [1, 5]
Elementary Education (NT) [1, 2]
Food Science, Nutrition, and Health Promotion
Concentrations:
Food Science and Technology (T) [1]
Health Promotion (T; NT) [1, 5]
Nutrition (T) [1]
Forest Products (T; NT) [1]
Forestry (T; NT) [1, 5]
General Biology (NT) [5]
Geoscience (T; NT) [1, 5]
Concentrations:
Applied Meteorology [5]
Teachers in Geosciences [5]
Industrial Engineering (T; NT) [1, 5]
Kinesiology (T; NT)
Concentrations:
Exercise Physiology [1]
Sport Pedagogy [1]
Sport Administration [1]
Mathematics (T; NT) [1]
Mechanical Engineering (T; NT) [1]
Physics (T; NT) [1]
Psychology (T) [1]
School Administration (NT) [1, 2]
Secondary Education (NT) [1, 2]
Sociology (T; NT) [1]
Special Education (NT) [1]
Statistics (T; NT) [1]
Technology (NT) [1]
Veterinary Medical Science (T; NT) [1]
Wildlife and Fisheries Science (T) [1]
Workforce Education Leadership (NT) [5]

Master of Science in Business Administration
Finance (T; NT) [1]

Master of Science in Information Systems
Information Systems (NT) [1, 5]

Master of Science in Instructional Technology
Instructional Technology (NT) [1]

Master of Taxation
Taxation (NT) [1]

Educational Specialist
Education
Concentrations:
  Counselor Education (T; NT) [1, 2]
  Education-Technology (T; NT) [1]
  Elementary Education (T; NT) [1, 2]
  School Administration (T; NT) [1, 2]
  School Psychology (T; NT) [1]
  Secondary Education (T; NT) [1, 2]
  Special Education (T; NT) [1]

Doctor of Education
Education
Concentrations:
  Education-Technology [1]
  Elementary Education [1]
  Secondary Education [1]

Doctor of Philosophy
Agricultural Sciences
Concentrations:
  Agriculture and Extension Education [1]
  Agronomy [1]
  Animal and Dairy Science [1]
  Animal Nutrition [1]
  Engineering Technology [1]
  Horticulture [1]
  Poultry Science [1]
  Weed Science [1]

Biological Sciences [1]
Biomedical Engineering [1]
Business Administration
Concentrations:
  Accounting [1]
  Business Information Systems [1]
  Finance [1]
  Management [1]
  Marketing [1]
  Chemistry [1]
  Cognitive Science [1]
  College/Postsecondary Student Counseling and Personnel Services [1]

Community College Leadership [5]
Computational Engineering [1]
Computer Engineering [1, 5]
Computer Science [1]
Counselor Education/Student Counseling and Guidance Services [1]
Curriculum and Instruction [1]
Earth and Atmospheric Sciences [1]
Educational Psychology [1]
Electrical Engineering [1, 5]
Elementary, Middle and Secondary Education Administration [1]

Engineering
Concentrations:
  Aerospace Engineering [1, 5]
  Applied Physics [1]
  Biological Engineering [1]
  Chemical Engineering [1]
  Civil Engineering [1, 5]
  Mechanical Engineering [1]

Environmental Toxicology [1]
Food Science, Nutrition and Health Promotion
Concentrations:
  Food Science and Technology [1]
  Nutrition [1]

Forest Resources
Concentrations:
  Forest Products [1]
  Forestry [1]
  Wildlife and Fisheries [1]
Graduate Applied Economics [1]
History [1]
Industrial and Systems Engineering [1, 5]
Instructional Systems & Workforce Development [1]

Life Sciences
Concentrations:
  Animal Physiology [1]
  Biochemistry [1]
  Entomology [1]
  Genetics [1]
  Plant Pathology [1]
  Mathematical Sciences [1]
  Molecular Biology [1]
  Public Policy and Administration [1]
  Sociology [1]
  Veterinary Medical Science [1]

GENERAL INFORMATION
STARKVILLE CAMPUS
The main campus of Mississippi State University adjoins the city of Starkville, 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 Starkville zip code is 39759.
GRADUATE STUDENT ASSOCIATION

The Graduate Student Association (GSA) provides an important forum for all graduate students at MSU. The GSA president represents graduate students as a voting member of the Graduate Council and reports monthly to that body. The GSA plans events that impact the academic and social lives of graduate students. Meetings are monthly and activities are posted on the Graduate School website at http://www.grad.msstate.edu/.

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.

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.

Concurrent (dual) Degrees—An applicant may apply and be admitted to be in more than one degree program concurrently. This requires prior approval of each department. If the student is approved to pursue two same-level degrees (master’s or doctoral) concurrently at MSU, no more than 9 hours of coursework from one degree program may be applied toward meeting the requirements for the second degree. This policy applies only to same-level degrees; master’s program courses cannot be applied to a doctoral program of study, nor can doctoral courses be applied to a master’s program.

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:

- Automotive Engineering. Coordinator: Dr. Mohamad Qatu. E-mail: mqq8@msstate.edu
- Business Administration. Coordinator: Dean Sharon Oswald. E-mail: slo49@msstate.edu
- Computational Biology. Coordinator: Dr. Andy Perkins. E-mail: ap335@msstate.edu
- Diversity. Coordinator: Dr. Alan Marcus. E-mail: aamarcus@history.msstate.edu
- Economics of Development. Coordinator: Dr. Randy Campbell. E-mail: rcampbell@coblin.msstate.edu
- Gender Studies. Coordinator: Dr. Nicole Rader. E-mail: NRader@soc.msstate.edu
- Geospatial and Remote Sensing. Coordinator: Rita Burrell. E-mail: rlburrell@bagley.msstate.edu
- Geospatial and Remote Sensing Technologies. Coordinator: Dr. David R. Shaw. E-mail: dshaw@gri.msstate.edu
- Gerontology. Coordinator: Dr. Sheri Lokken. E-mail: sllokken@humansci.msstate.edu
- Information Assurance Professional Certificate. Coordinator: Dr. David Dampier. E-mail: ddampier@cse.msstate.edu
- Information Systems. Coordinator: Dr. Rodney Pearlson. E-mail: rodney.pearlson@msstate.edu
- Manufacturing. Coordinator: Mr. Larry G. Dalton. E-mail: dalton@ise.msstate.edu
- Materials Engineering. Coordinator: Dr. Judith Schneider. E-mail: schneider@me.msstate.edu
- Public Design. Coordinator: David Perkes. E-mail: dperkes@caad.msstate.edu
- Six Sigma. Coordinator: Mr. Larry Dalton. E-mail: dalton@ise.msstate.edu
- Software Engineering. Coordinator: Dr. David Dampier. E-mail: ddampier@cse.msstate.edu
- Teaching of English to Speakers of Other Languages (TESOL). Coordinator: Dr. Ginger Pizer. E-mail: gbp31@msstate.edu

Graduate Program (Major)—The graduate program is 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 appears with the degree on the student’s transcript.

Honor Code—The MSU Honor Code, effective August 1, 2007, states: “As a Mississippi State University student, I will conduct myself with honor and integrity at all times. I will not lie, cheat, or steal, nor will I accept the actions of those who do.” The complete policy is available at http://www.honorcode.msstate.edu/.

Interdisciplinary Program—An interdisciplinary program is offered through more than one department or college.

Minor—A minor is a current block of coursework completed at Mississippi State University in a 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 coursework. The minimum number of credit hours required for a master’s minor is 9. The minimum
The 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. Up to one-third of the required hours toward fulfillment of a minor (9 hours required for minor at the master’s or educational specialist level and 12 hours required at the doctoral level) may be transferred to Mississippi State University. Hours transferred toward a minor must be current (no more than 8 years old for a master’s or educational specialist degree. For a doctor’s degree transfer credit can be accepted for courses that are academically relevant to the program at completion of the degree and fall within the time-limit requirements for coursework (per Graduate Council, September 2005 and March 2010).

ACADEMIC OUTREACH AND CONTINUING EDUCATION

The mission of the Division of Academic Outreach & 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 & Continuing Education are classified as the following: Academic Outreach, Continuing Education, Independent Study, and International Education.

The Division of Academic Outreach & Continuing Education is a member of the University Continuing Education Association (UCEA), Learning Resources Network (LERN), Advisory Council on Distance Learning & Academic Outreach (ACDLAO), Association for Continuing Higher Education (ACHE), and NAFSA: Association of International Educators.

Academic Outreach

The Office of Academic Outreach is dedicated to providing quality academic courses, certifications, and programs via distance at Mississippi State University. All courses are offered in cooperation with Mississippi State University academic departments. All curricula provide accredited educational programs and courses that possess the same rigor and standards of the traditional campus. Delivery methods offered include Online through myCourses, Intensive Weekend Seminar, and Hybrid.

Office of Academic Outreach: Academic Programs Offered and Instructional Delivery Methods (IVN=Interactive Video Network)
✓ Professional Programs
*ATOMS (Intensive Seminars)
*Broadcast Meteorology (Online)
*Diversity Certificate (Online)
*Economic Education Graduate Program (Online)
*GIS Certificate (Online)

*Insurance Summer Institute (Hybrid)
*Interagency Fire Management (Online, Intensive Seminar)
*Operational Meteorology (Online)
*Rural Medical Scholars (Intensive Summer Seminar)
*State Executive Institute (Intensive Summer Seminar)
*Teacher Conservation Workshop (Summer Intensive Seminars)
*Vision Specialist Program (Online)
*Writing for Thinking Summer Institute (Intensive Summer Seminar)

✓ Bachelor’s Degree Programs
*Elementary Education (Online)
*Geoscience (Online)
*Interdisciplinary Studies (Online)

✓ Master’s Degree Programs
*Applied Meteorology (Online)
*Biology—Teachers in Biology (Online)
*Business Administration (Online)
*Business Administration—Project Management (Online)
*Engineering (Online)
*Food Science, Nutrition and Health Promotion (Online)
*Forestry (Online)
*Geosciences, Teachers in Geosciences (Online)
*Industrial Engineering (Online)
*Information Systems (Online)
*Master of Arts in Teaching—Community College Leadership (Hybrid)
*Master of Arts in Interdisciplinary Sciences (Online)
*Public Policy Administration (Intensive Seminars)
*Workforce Education Leadership (Hybrid)

✓ Doctoral Programs
*Community College Leadership (Hybrid)
*Computer Engineering (Online)
*Electrical Engineering (Online)
*Engineering, Industrial Concentration (Online)

Contact Information: www.distance.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 and Lead 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
*Workforce development training provider
✓ Services
*Conferences and event planning/management
*Continuing Education units
*Customized training programs delivered at client locations

Contact Information:
Anthony Lowe, Continuing Education Manager
662-325-5957
alowe@aocr.msstate.edu

International Education & Study Abroad (English as a Second Language Center)
International Education serves international and domestic students in pursuit of a global education through the English as a Second Language Center and study abroad programs. The English as a Second Language Center provides an intensive language and culture program to support all international students. The study abroad office develops programs to provide opportunities and support to domestic students who are studying in other countries while maintaining an affiliation with MSU.

Contact Information:
Dr. Mark Binkley, Interim Manager
International Education & Study Abroad
662-325-2648
mbinkley@aocr.msstate.edu

MISSISSIPPI STATE UNIVERSITY-MERIDIAN
Mississippi State University-Meridian 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 coursework, as well as classes through distance learning, using resident faculty, MSU Starkville faculty, and part-time adjunct instructors. Junior, senior, and graduate-level courses offered at Mississippi State-Meridian 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 providing 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 non-traditional 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, a short drive northwest of Exit 150 off Interstates 20/59 in Meridian.

Teleclassrooms—Interactive “video conference classrooms” allow students on the Meridian and Starkville campuses, and at sites anywhere in the world, 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—The MSU University Libraries, with a branch operation on the Meridian Campus, supports the teaching, research, and service needs of the MSU-Meridian Campus community. Meridian Campus faculty, students, and staff have full access to all the electronic collections offered by the University Libraries, including scholarly journals, government documents, books, newspapers, and reference materials. Physical items located on the Starkville Campus are accessible through Interlibrary Loan and the Library Express document delivery service at no charge to the MSU-Meridian community. An “Electronic Library Room” is available so that individuals on the MSU-Meridian Campus may access these online resources and services, including online workshops and podcasts. Materials selected and purchased by and for MSU-Meridian are added to the L. O. Todd Library and are available to both communities through a partnership between MSU-Meridian and the Meridian Community College.

Students—Approximately one-half of the MSU-Meridian students reside in Lauderdale County. The remainder commute from Alabama and from 32 surrounding Mississippi counties, including 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.

Division of Business
- Master of Business Administration
- Master of Business Administration/Accounting Concentration

Division of Education
- Master of Science in Education with majors in
  1. Elementary Education
  2. Secondary Education
     Areas of emphasis:
     a) English
     b) Social Studies
  3. Counselor Education
     Areas of emphasis:
     a) Community Counseling
     b) School Counseling
  4. School Administration
- Master of Arts in Teaching Secondary
  Major: Teacher Alternate Route
- Master of Arts in Teaching
  Major: Community College Education
- Educational Specialist with major in Education
  Concentrations:
  a) Elementary Education
  b) Secondary Education
     Areas of emphasis:
     i) English
     ii) Social Studies
  c) Counselor Education
     Area of emphasis: School Counseling
  d) School Administration

The Mississippi State University Library System is composed of the Main Library (Mitchell Memorial Library) and its library branches which include Architecture, the College of Veterinary Medicine, the Jackson Center Library, and the Meridian Campus.

The University Libraries include a collection of over 2,000,000 volumes and over 80,000 journal/serial titles, including print and electronic formats. The Libraries regularly receive many of the publications of leading universities and scholarly societies. The Library is a selective Government Document Depository and United Nations Depository. The Libraries provide a full complement of full text journals as well as scholarly journals in electronic format and accessible remotely from office and dorms on campus as well as at home and from a distance off campus. Through the Libraries web page, patrons have access to a wide variety of databases and full text journals.

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, agricultural, 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 and by 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, Chip Pickering, and the Ulysses S. Grant Presidential Collection.

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. A ragtime/jazz festival is held each March.

The Library provides over one hundred computers for students in the Computer Commons Lab and Reference Department. Students who want to use the sound capabilities of the Internet may plug their own headphones into headphone jacks on the PC’s and Macs. The lab also offers two laser printers and a color laser printer. The Library’s Computer Commons Lab is open until 1:45 a.m. Sunday through Thursday; until 7:45 p.m. on Friday; and until 5:45 p.m. on Saturday.

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 Libraries’ collections for use in web page design or presentation. IMC houses computers with CD-ROM players, computers with flatbed scanners that can be used for scanning documents, pictures, photos, etc., typewriters, 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 Mac computers. The IMC also provides small listening areas with TVs and VCRs for groups to view videos for classes. The Libraries provide a full range of individual reference services, including one-on-one consultations and online Chat. Three rooms with individual computer stations are available for class and group instruction and workshops. There is also a large auditorium and a presentation room for class and student use.

The Libraries, a charter member of the Southern Library Network (LYRASIS), hold 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 SPARC. The Libraries are 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

In support of academic and research computing at MSU, Information Technology Services (ITS) provides an expansive wired and wireless campus network that spans approximately 202 academic and administrative buildings and residence halls. The network links hundreds of large-scale computer systems and servers with thousands of desktop, laptop, and handheld devices. Access to remote branches of the University, as well as the Internet, Internet 2, and National Lambda Rail is provided through high-speed, wide-area connections from the campus network. In addition to the network, ITS provides an array of computing and information resources for students, faculty, and staff. These resources include myState, the University’s Web portal, and myCourses, MSU’s course management system for online and distance learning. Open access computer labs in Griffis Hall, the Academic Computer Lab, and Mitchell Memorial Library are available to all students, while a number of special-purpose computer labs are provided for students in specific disciplines. An H.323 network infrastructure enables interactive video classes and video conferencing throughout the state, the region, and the world. Additionally, ITS supports a large number of classrooms across campus with state-of-the-art technology to facilitate and enhance classroom instruction. For more details on the information technology environment and services provided by ITS, go to 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 Economic Development.

Mississippi-Alabama Sea Grant Consortium (MASGC)—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 MASGC 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 MASGC 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, MS 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 master’s 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 specialty areas such as poultry, beef, dairy, swine, wildlife, and aquaculture.

DIVISION OF RESEARCH—VICE PRESIDENT FOR RESEARCH AND ECONOMIC DEVELOPMENT

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:

- Office of Technology Commercialization (OTC)
- Laboratory Animal Veterinarian (LAV)
- Radvanyi Chair in International Studies
- Office of Regulatory Compliance & Safety (ORC&S)
- Sponsored Programs Administration (SPA)
- Office of Research Security (ORS)

CENTERS AND INSTITUTES

- Advanced Prototyping Experimentation Laboratory (APEX)
- Center for Educational and Training Technology (CETT)
- Center for Safety and Health (CSH)
- Center for Science, Math, and Technology (CSMT)
- Energy Institute (EI)
- Geosystems Research Institute (GRI)
- Institute for Genomics, Biocomputing and Biotechnology
- Institute for Imaging and Analytical Technologies (I²AT)
- Mississippi State Chemical Laboratory (MSCL)
- National Strategic Planning & Analysis Research Center (nSPARC)
- Northern Gulf Institute (NGI)
- Research and Curriculum Unit for Vocational-Technical Education (RCU)
- Social Science Research Center (SSRC)
- Sustainable Energy Research Center (SERC)
- Technology Resource Institute for Business and Engineering (TRI)

Interdisciplinary research is promoted and coordinated by the Office of Research and Economic Development. Teams are assembled, and proposals, projects, and programs are developed for research opportunities. The directors for Centers and Institutes and Sponsored Program Administration help assemble teams of experts in broad areas.

MSU participates in 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 contributes 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 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 Economic Development and the Mississippi Agricultural and Forestry Experiment Station work together and exchange ideas and information to perform their missions of basic and applied research contributing to the total industrial and agricultural development of Mississippi.

Office of Technology Commercialization (OTC)—The mission of the OTC is the identification, assessment, protection, marketing, and licensing of intellectual properties developed by MSU faculty, staff, and students. This mission originates from Public Law 96-517, better known as the Bayh-Dole Act, which...
OTC strives to transfer Mississippi State University technology, generated through University research efforts, to the private sector for the commercialization of life saving and life quality improving products and services. In pursuit of this mission, the dedicated OTC staff serves as a resource for Mississippi State University faculty, staff, and students regarding intellectual property and commercialization opportunities.

Laboratory Animal Resources (LAR) — Laboratory Animal Resources is a University resource providing compliance in monitoring veterinary and domiciliary care, technical support, and program planning for animals used in biomedical and some agricultural teaching, testing and research. The Vice President for Research and Economic Development oversees the organization which 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.

Office of Regulatory Compliance & Safety (ORC&S) — The Office of Regulatory Compliance & Safety has several functions that are related to ensuring compliance with federal, state and local regulations and safety of MSU personnel and the surrounding community.

Regulatory Compliance functions include 1) support of the Institutional Animal Care and Use Committee (IACUC) that reviews and approves animal research; 2) support of the Institutional Review Board for the Projection of Human Subjects (IRB) that reviews and approves human subject research; 3) support of the Institutional Biosafety Committee (IBC) that reviews and approves research using biological hazards or recombinant DNA; 4) certification of all Biosafety Level 2 labs; 5) handling, storage and disposal of hazardous waste; 6) procurement, use, storage and disposal of radioactive materials; 7) maintenance of MSU’s radioactive materials license; 8) review of campus buildings to ensure safety standards and fire code compliance; 9) inspect laboratories for safety issues; 10) review workers compensation injury trends; 11) training in CPR/first aid, defensive driving, OSHA 10-hour and 30-hour, Hazwoper, fire extinguisher, lab safety, etc.

Sponsored Programs Administration (SPA) — Sponsored Programs Administration is the component of the Office of Research and Economic Development 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 problems-solving associated with sponsored projects.

Office Research Security (ORS) — The mission of ORS is to administer all of the security requirements associated with research contracts and initiatives. This covers security from proprietary research to classified U.S. Government contracts and projects. ORS is also responsible for the administration and oversight of the export control compliance program for the University.

CENTERS AND INSTITUTES
Advanced Prototyping Experimentation Laboratory (APEX) — The Advanced Prototyping Experimentation Laboratory (APEX) at MSU aims to provide both
government and commercial organizations with world-class research and technology development. APEX uniquely integrates the University’s faculty, facilities, and industry partners into key working groups that address critical problems related to national security. These working groups include applied and computational mathematics; autonomous systems; cognitive computing; sensors and signal processing; and space systems.

**Center for Educational and Training Technology (CETT)**—The Center for Educational and Training Technology 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 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 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 and forms. Employers may also visit the Website or Center office for direct consultation on various subjects.

**Center for Science, Mathematics and Technology (CSMT)**—The Center for Science, Mathematics and Technology at Mississippi State University was established in 1996. The mission of the CSMT is to promote interdisciplinary projects that focus on science, mathematics and technology education and to focus on human resource development in the workforce, in the community, and in the classroom. The Center’s programs have impacted hundreds of teachers and students in the state of Mississippi and the nation. These programs will continue to serve as a catalyst for industry to partner with education, bridging the gap between the classroom and the workplace and improving the knowledge and skill base of tomorrow’s workforce. Under supervision of the Vice President for Research and Economic Development, the Center will continue to undertake collaborative 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.

**Energy Institute (EI)**—The mission of the Energy Institute is to coordinate energy research activities at MSU that will enhance the national reputation of the faculty involved and will lead to the development of energy-based industries in MS. The EI is comprised of four centers: the Sustainable Energy Research Center; the Institute for Clean Energy Technology; the Combined Cooling, Heating, and Power Projects; and the Industrial Assessment Center. These four centers give EI areas of excellence in bio-fuel development, environmental effects of energy production, distributed electrical power generation with waste heat utilization, and energy conversation. These four focus areas are all of high importance to energy issues in Mississippi and the Southeast. The EI also
serves as a focal point for developing teams to address other critical energy issues.

Geosystems Research Institute (GRI)—GRI allows researchers from across campus to work on place-based multidisciplinary, interdisciplinary, and cross-disciplinary issues. It brings together tenure-track faculty from across the University, research faculty, research staff, and students to acquire and disseminate knowledge about earth and its systems, to integrate geosystems science and engineering, to translate geospatial technologies into useful tools and skills, and to transition science and technology into practice to support its stakeholders and improve policy and public awareness. GRI’s integrated approach is not commonly executed or taught within individual academic disciplines, so GRI offers MSU the opportunity to explore and capture non-traditional research initiatives and to broaden its research portfolio. In a sentence, the mission of GRI is to better understand and predict earth’s systems and develop geospatial technologies that promote their stewardship, sustainability, and contributions to prosperity. As a member of the High Performance Computing Collaboratory (HPC2), GRI has access to not only one of the best research administration groups on campus, but also to a world-renown high performance computing facility and support staff.

Institute for Imaging and Analytical Technologies—
The I²AT is a University-wide core facility which meets MSU’s missions in research, teaching, and service by facilitating inter- and multi-disciplinary research, education, and outreach in the life and materials sciences. The I²AT houses major research instrumentation that is available to faculty, staff, students, and outside users. Instrumentation includes technologies for diverse microscopy (light, confocal, atomic force, and electron) and microanalysis (e.g., X-ray diffraction) applications, in addition to magnetic resonance imaging used in areas of cognitive sciences and medical systems. These technologies provide MSU, the State of Mississippi, and the local community with premier resources that facilitate scholarly research, spawn competitive funding, foster project completion, enable high-quality undergraduate and graduate education, enhance impact of outreach, and promote economic development. The I²ATs a university-level research institute is organized with University-wide responsibilities and is administered out of the Office for Research and Economic Development.

The Institute for Genomics, Biocomputing and Biotechnology—The Institute for Genomics, Biocomputing and Biotechnology at Mississippi State University was established to improve the human condition by improving the security of health, food, fuel, the environment and the economy of our state and nation. The IGBB is a unique multidisciplinary institute dedicated to excellence in research, education and service in the analysis of the function and expression of genes with an emphasis on economically important species. The Institute focuses on collaborations across disciplines to increase understanding of complex biological systems related to health, energy, the environment, and food and agriculture using a systems biology approach. The IGBB provides services to researchers across the state, nation and world in the use of the Institute’s data resources and computational methods. The IGBB facilitates economic development by building collaborative relationships with science- and technology-oriented government agencies. Educational activities of the IGBB include a Computational Biology Certificate program and the Digital Biology Learning Community. The Computational Biology Certificate is available for both graduate and undergraduate students. Illustrative programs are provided for students from the life sciences and for those from the computational sciences and engineering.

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 oversees regulatory control programs in food, 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 non-profit. The guiding principle is contribution 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.

**National Strategic Planning & Analysis Research Center (nSPARC)—**nSPARC ([www.nsparc.msstate.edu](http://www.nsparc.msstate.edu)) is a unique interdisciplinary policy and science center dedicated to excellence in research. The mission of the Center is to provide science-based strategies that have important applications for economic, education, workforce, business, and regional development. Using cutting-edge infrastructure and technology, nSPARC makes creative and critical contributions to the nation through advanced data management and analysis techniques and software development. The Center also utilizes survey research and the latest focus group technology to provide customized solutions to unique issues.

In general, the Center carries out its mission by:
- generating high-quality basic and applied research in the areas of economic, education, workforce, business, and regional development;
- bringing together scientific and technical expertise from the private, public, philanthropic, and academic worlds;
- building public-private partnerships at the local, multi-county, state, regional, and national levels;
- using state-of-the-art information technology and analytical procedures to link contextual factors to individual and organizational performance;
- integrating information generated from administrative records, publicly available data, and survey data to create customized solutions.

nSPARC enjoys an international reputation for conducting research that provides timely, relevant information to support the coordinated delivery of economic, education, and workforce services to increase economic competitiveness.

**Northern Gulf Institute (NGI) —**The National Oceanic and Atmospheric Administration (NOAA) competitively selected the Northern Gulf Institute for a five-year term as the newest member in its Cooperative Institute Program. The NGI is a partnership of five complementary academic institutions and NOAA. The collaboration is led by Mississippi State University, partnering with the University of Southern Mississippi, Louisiana State University, Florida State University and the Dauphin Island Sea Lab. The academic facilities of the five NGI collaborating institutions host the research, technology, and education elements, and transition-to-operations activities are based at Stennis Space Center. The NGI vision is to be a regional leader providing integrative research and education, improving the resiliency and conservation of the Northern Gulf of Mexico. Its mission is to conduct high-impact research and education programs in the Northern Gulf of Mexico region focused on integration: integration of the land-coast-ocean-atmosphere continuum; integration of research to operations; and integration of individual organizational strengths into a holistic program. The program shall measurably contribute to the recovery and future health, safety, resilience and productivity of the region, through sustained research and applications in a geospatial and ecosystem context. The NGI goal is to develop, operate, and maintain an increasingly integrated research and transition program, the results of which fill priority gaps or reduce limitations in current Northern Gulf of Mexico awareness, understanding and decision support—especially at the intersection of upland-watershed systems and coastal waters, habitats, resources and hazards, integrating the interaction and impacts of people and communities.

**Research and Curriculum Unit for Vocational-Technical Education (RCU)—**The Research and Curriculum Unit for Vocational and Technical Education is jointly sponsored by the Mississippi Department of Education, Office of Vocational and Technical Education, and the Office of Research and Economic Development 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.
Social Science Research Center (SSRC)—The Social Science Research Center has 60 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 46 research fellows, supported by approximately 80 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 Wolfgang Frese Survey Research Laboratory, the Media Collaboration Laboratory, the Secure Data Laboratory, and Facilitation for Advanced Collaborative Solutions.

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 Economic Development, the SSRC also has administrative responsibilities for certain programs to the Vice President for Agriculture, Forestry and Veterinary Medicine.

Sustainable Energy Research Center (SERC)—SERC was established in 2006 to create an infrastructure for coordinated interdisciplinary collaboration at MSU in the development of environmentally and economically sustainable energy sources specific to the southeastern United States. SERC serves as a conduit for the development of integrated research and educational progress at MSU and serves as a catalyst for forging partnerships among academia, business, and the U.S. government.

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. The Resource Referral Center under TRI refers callers to appropriate researchers on campus to meet their needs.

COLLEGES
Separately organized research units are listed below by college.

College of Architecture, Art, and Design
The Carl Small Town Center (CSTC) is a non-profit organization within the College of Architecture, Art, and Design at Mississippi State University. It was established in 1979, responding to its geographical position within a rural landscape and to the school’s focus on the American small town.

The mission of the Center is to promote good design and planning for small towns, promote regional planning and cooperation between communities, encourage the development of public space and life within communities, promote sustainable development, influence public policy on the built environment, provide towns and communities with an active resource center for contemporary small town design issues, and promote collaboration between communities, students, and faculty.

The revival of Mississippi’s small towns has the potential to improve quality of life in the future and reverse the effects of sprawl. To accomplish this goal, the CSTC pursues work that has regional dimensions and is involved developing policies promoting economic development and the quality of the physical environment on a regional scale.

The CSTC also works to improve quality of life by renewing and improving the physical environment of small towns. Historic preservation, sustainable new development, and town planning all have a role to play in the success of a small town. The CSTC is committed to working with local, state, and national partners to look holistically at the problems of small towns and find answers.

The CSTC has involved both undergraduate and graduate students from architecture, interior design, landscape architecture, and business in its work. The CSTC has worked with faculty from architecture, landscape architecture, public administration, social
The Design Research and Informatics Laboratory (DRIL) Jackson Community Design Center (JCDC) 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, multimedia, 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.

Initiated in 1996, the Jackson Community Design Center (JCDC) is an urban think tank and urban research laboratory with the Mississippi State University College of Architecture, Art + Design, based out of the School of Architecture’s Jackson Center. Its mission is to support urban revitalization in mid-sized cities, primarily Jackson, MS, by providing research, visioning, planning, and technical assistance to non-profit organizations by providing planning and related research centers and labs both at MSU and abroad.

The organization provides a service to the city by taking this research to develop and present concepts for land use – working regionally to influence growth to heal socioeconomic and municipal divides. Additionally, the JCDC builds relationships upon and utilizes grassroots enthusiasm, local artists, and non-profit entities to test theories in built form. Through this parallelism of theory and practice, the JCDC maintains a presence as both a community-driven and visionary entity.

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.

The Gulf Coast Community Design Studio (GCCDS) focuses on two related activities: service and learning. The overall mission of the studio is to provide leadership and design assistance to the Mississippi Gulf Coast communities. The community design studio works with elected officials, city and regional planning departments, neighborhood groups, and non-profit organizations by providing planning and design assistance. The scale of projects ranges in size from assisting the various city leaders with community-based planning to helping a neighborhood group or another non-profit organization with a particular building project. The common aspects of the work at every scale are a commitment to citizen participation and an effort to rebuild diverse and complete cities and to preserve and restore the unique natural and cultural resources along the coast. The studio also provides an educational setting for groups of architecture students and faculty to engage in projects relevant to the rebuilding effort. Beginning Fall 2010, the GCCDS will offer a three-semester, 18 credit hour program open to graduates of an accredited professional degree program in architecture, planning, or landscape architecture that leads to a Certificate in Public Design.

In addition to providing design assistance and providing opportunities for student projects, the Gulf Coast Community Design Studio is a center for research. Hurricane Katrina brought the following architectural issues to light: affordable and temporary housing, community revitalization, hurricane-resistant construction, land use, transportation, communication, and infrastructure. Therefore, the studio will provide a basis to pursue these and other areas of relevant research. Faculty from the College of Architecture, Art, and Design and other disciplines will be able to use the resources of the Gulf Coast Community Design Studio to build a body of information that will have national importance. Part of the research will be the compilation of the many planning and architecture products, starting with the Governor’s Renewal Forum, and continuing throughout the long-term
rebuilding period. This compilation will enable the University to document the rebuilding activities and provide national leadership in creating useful information for future disaster preparation and recovery efforts.

**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, mathematics the language in which she speaks. Through the Center for Computational Sciences, the College of Arts and Sciences at Mississippi State University provides resources and a focal point for addressing scientific and educational questions in an interdisciplinary manner. The Center’s mission is to foster interdisciplinary research in both the fundamental understanding and application of all the natural sciences and, in particular, to model and develop integrated computational environments and crosscutting tools that allow a comprehensive, cross-disciplinary approach to problem-solving.

The Center for Computational Sciences contributes to the state of Mississippi in numerous ways. Firstly, this program generates a better-educated populace and a better-trained work force by educating students at both the undergraduate and graduate levels in interdisciplinary research, providing them with strong skills computers, modeling, and the application of the scientific method. These skills are required in a multitude of varied industries and businesses. Secondly, the CCS allows MSU scientists from diverse fields to different research and new methodologies. This uniquely positions our scientists to fashion multidisciplinary proposals. Such multidisciplinary approaches to problem-solving are often requirements in requests for proposals from federal agencies and industries. CCS thus creates new opportunities for leveraging resources within MSU as well as drawing resources to MSU.

**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 Cobb family to complement the University’s activities in archaeological instruction, research, and service. The Institute provides active support for the instructional programs in archaeology offered through the Department of Anthropology and Middle Eastern Cultures. 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 Economic Development. Its membership includes the Associate Dean of Arts and Sciences and the faculty from the Departments of Anthropology and Middle Eastern Cultures, Art, Communication, English, Foreign Languages, History, Music, and Philosophy and Religion. 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 which is held in their honor in Jackson, MS.
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 of Government is organized into six program areas: (1) State Agency Program provides applied research and technical assistance to state agencies to improve their efficiency and effectiveness; (2) Local Government Program provides assistance to local governments to improve their efficiency and effectiveness; (3) Civic Education Program provides increased citizen involvement in political activities and enhances citizens’ knowledge of Mississippi politics; (4) Multi-State Program provides a working relationship with states similar to Mississippi to stay abreast of regional circumstances and their effect on Mississippi; (5) Organizational Development and Management Program provides assistance to government entities at all levels in adopting performance-based principles of organizational design and management, stimulates change in state and local government to match best-performance measurement practices, and assists in adoption and diffusion of innovative management techniques; (6) Basis and Applied Research Program provides the ability to foster basic research endeavors and to generate a series of research publications on the part of the faculty and students in Political Science, Public Policy and Administration, and other related areas. Technical assistance is offered upon request to Mississippi municipalities, non-profit organizations, regulatory agencies, utilities, and commissions to enhance efforts in improving management, efficiency, service delivery, and technology. The staff works with personnel from the state legislature, local governments, state and federal agencies, Mississippi citizens, regional and national contacts, and other agencies. 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 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
Center of Family Enterprise Research (COFER)—The mission of the Center of Family Enterprise Research (COFER) is to conduct and promote original research on family business, provide educational and research opportunities for graduate students, primarily at the doctoral level, and disseminate the results of research to family businesses throughout the state and the U.S. in order to improve their management and performance. The Center’s mission and vision will be accomplished by leveraging its existing human resources, developing interest in family firm research within the College, and by exploiting existing partnership with the University of Alberta’s (Canada) Centre for Entrepreneurship and Family Enterprise and WHU-Otto Beisheim School of Management and the ITNES Center of Family Enterprises (Germany). The establishment of a Center of Family Enterprise research is consistent with the mission of MSU and its FutureState 2015 objectives. The Center is committed to the advancement and dissemination of knowledge in a field where the University can gain national and international prominence contributing to the economic development of the state, region, and nation. The Center also contributes to MSU by providing research opportunities for faculty members, increasing the quality and quantity of doctoral students, and seeking funding from private donors, industry, and government agencies.

Division of Business Research (DBR)—The Division of Business Research is one of the major research and service 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. 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. In addition, the Division works with the MSU Office of Research and Economic Development 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)**—The Small Business Development Center 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)** **Referral Center (RRC)**—The Technology Resource Institute 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 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

A. to engage in basic and applied research pertaining to educational issues;
B. to consult with faculty and students about problems of research design and analysis;
C. to aid in dissemination of the research findings of educational research staff;
D. to assist in the development of proposals for grants for research and program development in the College of Education;
E. 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
F. to assist in test development for public schools.

**Center for Educational Partnerships (CEP)**—The Center for Educational Partnerships 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 non-profit 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:

1. To develop and maintain a leadership program to preparing individuals to guide early childhood policy and practice at the local and state level
2. To improve the quality of children’s care and education prior to entering school and through third grade
3. To help communities to build partnerships with families and schools and to support families as their children’s first and most important teacher.

Mississippi Writing/Thinking Institute (MWTI)—The mission of MWTI is to improve writing and learning in Mississippi schools. As affiliate sites of the National Writing Project (NWP), each of the seven university sites of MWTI focuses the knowledge, expertise, and leadership of Mississippi educators on sustained efforts to improve writing and learning for all students. MWTI offers what Mississippi teachers need most:

- High quality professional development that blends best practices and theory
- Research-based, sustained programs aligned with state and national standards
- Outstanding teacher consultants who serve as teachers of their colleagues.

Rehabilitation Research and Training Center on Blindness and Low Vision (RRTC)—Since its inception in 1981, the RRTC’s mission within the College of Education at MSU has been to enhance employment and independent living outcomes for individuals who are blind or visually impaired through research, training, education, and dissemination. The Center pursues activities in accordance with this mission primarily with funding from the National Institute on Disability and Rehabilitation Research (NIDRR), which supports research into a range of areas related to the employment of blind or visually impaired individuals. The Center also receives funding from sources such as the Rehabilitation Services Administration, the Institute of Education Sciences, the Office of Special Education, and numerous state rehabilitation agencies. MSU-RRTC provides training opportunities for blindness professionals including a graduate Vision Specialist in Vocation Rehabilitation Certificate and online training for continuing education credits. Educational outreach activities range from site visits to provide training and technical support at Mississippi public schools, to annual teacher workshops hosted on campus. The Center works closely with other professional, academic, and consumer organizations in the field of blindness and low vision and provides technical support to direct service providers, to individuals who are blind or visually impaired, and to their families.

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

College of Engineering

Center for Advanced Vehicular Systems (CAVS)—The Center for Advanced Vehicular Systems (CAVS) at Mississippi State University is an interdisciplinary center comprised of engineering, research, development, and technology transfer teams focused on providing solutions through the synergistic use of simulation tools, theoretical analysis, and experimentation. The CAVS activities are clustered around material science, manufacturing process modeling, computational mechanics, computational fluid dynamics, multi-scale modeling, vehicular systems engineering, design optimization, human factors and ergonomics, alternative powered systems, and intelligent electronic systems. Research activities include efforts on vehicle weight reduction, structural integrity, hybrid power train design, energetics, advances in improved design and predictability as well as advances in improved diagnostics, manufacturing, training systems, and computational design technologies. While CAVS projects generate timely solutions relevant to regional manufacturers, CAVS research seeks to expand knowledge that is essential for sustained economic development. Through direct involvement in various activities at CAVS, students gain valuable experiences that leverage on their classroom learning. CAVS also serves as the academic department for the College’s graduate program in Computational Engineering.

The research groups within CAVS are dynamic with the ability to maximize the utilization of advancing technologies. In recognition that today’s complex problems facing manufacturing competitiveness and product safety and reliability must be addressed by cross-disciplinary teams, CAVS researchers approach the problems from diverse viewpoints to arrive at appropriate solutions. Each group at CAVS shares a passion for helping industry realize and sustain a competitive advantage within the global economy.

In support of its mission, CAVS also offers a direct interface to manufacturers and industries throughout the state and region via the CAVS Engineering Extension, located in Canton, Mississippi. The services offered by the CAVS Engineering Extension include discrete event simulation, Six Sigma, lean...
manufacturing, and metrology. With a staff of about 250 faculty, research staff, postdocs, and students, the engineering enterprise of the Center for Advanced Vehicular Systems is well situated to support the research needs of industry.

**Center for Computer Security Research (CCSR)—**The Mississippi State University Center for Computer Security Research is a National Security Agency and Department of Homeland Security-certified National Center for Academic Excellence in Information Assurance Education and Research. 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.

**National Forensics Training Center (NFTC)—**The Mississippi State University National Forensics Training Center is a Department of Justice-funded activity that provides no-cost digital forensics training to the law enforcement community and supports research activity in the area of computer crime and digital evidence recovery. With the growing incidence of cyber crime today, it is critical that law enforcement officers have the ability to handle and examine digital evidence. The NFTC seeks to solve this issue by offering training in a broad range of cyber crime areas. The training that is offered by the NFTC is free of charge for all law enforcement personnel. All meals and lodging needs are provided for the students attending the training. There are two primary facilities for the National Forensics Training Center. One is located in the Computer Science and Engineering Department of Mississippi State University and the other is the Cyber Crime Fusion Center in Jackson, MS. These facilities provide students with hands-on experience with some of the latest tools and equipment in digital forensics.

**The Critical Infrastructure Protection Center (CIPC)—**The Mississippi State University Critical Infrastructure Protection Center was founded by funding from the Department of Homeland Security and the Department of Defense for the purpose of research into the problem of securing the nation’s critical infrastructure. The CIPC maintains a very unique industrial control systems laboratory and conducts interdisciplinary research into software vulnerabilities, security mitigation strategies, audit mechanisms, forensic analysis, and attack vulnerabilities.

**Center for DoD Programming Environment and Training (PET)—**The mission of the Center for DoD Programming Environment and Training 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 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 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 HPC² Computational Simulation and Design Center (HPC² SimCenter) is to serve Mississippi State University, the nation, and industry through research and development of advanced computational modeling, simulation, and design of physical systems to solve real-world problems. The HPC² SimCenter formed in July 2000 as part of the Engineering Research Center (ERC) is now HPC² within the College of Engineering. The SimCenter was formerly the Computational Fluid Dynamics Laboratory at MSU’s National Science Foundation Engineering Research Center (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 possible by using 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 SimCenter has conducted modeling and simulation
The EMRL unit within the Department of Electrical and Computer Engineering 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.

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 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 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.

Engineering Engagement and Outreach Service (EEOS)—The Engineering Engagement and Outreach Service is an affiliation of BCoE activities with a focus on serving Mississippi businesses, industry, government (state and local), and communities. The EEOS is founded around the Center of Advanced Vehicular Systems-Extension (CAVS-E) and the Industrial Outreach Service (IOS). Adding to these two flagship organizations are the contributions of the college’s Assessment Center in the Department of Mechanical Engineering and the Southeast Regional Forensics Training Center in Computer Science and Engineering. Additionally, the college’s distance education program, offering graduate degrees and certificates, has become affiliated with EEOS to serve the professional development needs of the state’s engineering workforce. The mission of EEOS is to provide a coordinated mechanism for faculty in the Bagley College of Engineering to work with business, industries, and government entities to help them solve technical problems, develop new products, and improve production efficiency. Details on the two anchor centers follow. Center for Advanced Vehicular Systems Extension (CAVS-E)—The mission of CAVS Extension is to support Mississippi’s emerging automotive industry, other equipment manufacturers, and small-to-medium size manufacturers with advanced technical expertise in the areas of product and process improvement, professional development education and training, and technology transfer. Major goals include improvement of competitiveness and profitability of Mississippi’s manufacturers; support of economic development so that new companies will locate to Mississippi and existing companies will expand; and assistance in providing new and better jobs for the people of the state. CAVS Extension works with the research centers and departments of Mississippi State University in order to provide access to and applications of advanced engineering tools and concepts related to engineering analysis, product design, manufacturing, and assembly processes. Services include delivery of experience- and knowledge-based concepts in production system modeling, plant layout, manufacturing plan development, and other applications in the areas of business and industrial systems. Industrial Outreach Services (IOS)—The mission of Industrial Outreach Services (IOS) is to assist Mississippi businesses and industry become more effective, efficient, and competitive in the global economy. In fulfillment of this mission, IOS provides services and training in launching and building new businesses, improving competitiveness of established companies, and serving as a bridge to the management and manufacturing resources and expertise that Mississippi State University has to offer. The IOS staff utilizes experience in industrial engineering, lean manufacturing, food processing, business development, and strategic planning and focuses on delivery of coordinated resources with accessibility to businesses and industry across the state. IOS provides support services to clients in manufacturing, agricultural and food production, the wood and furniture industry, home appliances, steel product production, electrical supplies, and state government entities.
High Performing Computing Collaboratory (HPC\(^2\) (formerly ERC)—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 ERC was revised and expanded into a multi-college institute. In July 2006 the Center was renamed the High Performance Computing Collaboratory (HPC\(^2\)) in order to more accurately reflect the research role and mission of the Center. The HPC\(^2\) 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. HPC\(^2\) 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 concentrates on the design of high performance system software and reconfigurable computing platforms for scientific and commodity computing environments. Emphasizing a semi-analytical approach to the understanding of complex systems such as networks and application-specific processors using field programmable gate arrays (FPGAs), the HPC Lab has projects spanning the gamut from gigabit/s communication subsystems, solutions to large-scale computational biology problems, and design of hardware-based accelerators for intrusion detection and computer forensics applications. The well-equipped HPC Lab is housed in the Department of Computer Science and Engineering and is supported by NSF, DOD, DOE, and industry. The interdisciplinary research in the HPC Lab is performed in collaboration with HPC\(^2\), CCSR, Institute for Digital Biology (IDB), and the Life Sciences and Biotechnology Institute (LSBI).

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 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.

Institute for Clean Energy Technology (ICET)—The Institute for Clean Energy Technology 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, ICET’s mission has been to enhance its customers’ performance through measurement and testing. ICET 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, ICET is located in the Mississippi Research and Technology Park.

ICET’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. ICET has a highly capable analytical lab that supports ICET’s own projects as well as solving difficult analytical problems for industrial clients. ICET’s measurement capabilities primarily involve optical or acoustic techniques. ICET can test industrial technologies either at its facilities in Starkville, MS, or at its customers’ locations. ICET has carried out tests in its test beds for many customers, including ICET’s Ames Lab, SRI, and NASA’s Stennis Space Center. ICET 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.

Microsystems Prototyping Laboratory (MPL)—The Microsystems Prototyping Laboratory 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 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 pre-collegiate 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 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 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 requirements engineering, software design, software testing, software evolution, software metrics, assurance of software for critical systems, and software development.
engineering for high performance clusters. Research in this laboratory has been supported by NSF.

**Transportation Research Center (TRC)**—The Transportation Research Center (TRC) was established in 1997. Its primary function is to conduct scholarly research designed to advance the current state of transportation-related technologies in the state 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.

**Visualization and Graphics Laboratory (VGL)**—Researchers in the Visualization and Graphics Laboratory in the department of Computer Science and Engineering participate in projects involving information and scientific visualization, augmented reality, and application-specific visualization tasks. Projects involve cutting-edge bioinformatics visualization, digital forensics visual analytics, perception in augmented reality displays, and heart trauma visualization. Researchers in this laboratory work in collaboration with the Visualization Analysis and Imaging Laboratory at the HPC2, the Institute for Neurocognitive Science & Technology, and the Institute for Digital Biology. They have access to a range of state-of-the-art facilities including a high-resolution display wall and augmented reality goggles.

**College of Forest Resources**

**Berryman Institute East**—Established in 1993, the Institute consists of two branches: Berryman West at Utah State University and Berryman East at MSU. Focusing on long-term strategies to benefit wildlife while reducing the potential damage and nuisance animals can cause, it also provides education and outreach programs to increase understanding of wildlife behavior.

**Franklin Furniture Institute**—The Franklin Furniture Institute is a multi-disciplinary effort involving MSU’s colleges of Business, Forest Resources, Engineering, and Architecture. The Institute builds on a long history of wood-product research, technical assistance, and continuing education the University has provided to the state and region. Through research in the design, production, marketing and distribution of high quality products, faculty and staff offer technical support to ensure a high-quality workforce and educate future managers and leaders for the industry.

**Forest & Wildlife Research Center (FWRC)**—The mission of the Forest & Wildlife Research Center is to expand through research the fundamental and applied knowledge upon which forestry, forest products, and wildlife and fisheries disciplines are based. It assists in conserving, developing, and using these resources in Mississippi, the nation, and other countries through research, technology transfer, and other service activities.

**Mississippi Water Resources Research Institute (WRRI)**—The Mississippi Water Resources Research Institute provides a statewide center of expertise in water and associated land-use and services for use in education, research, planning, and community service. The WRRI goals are to serve public and private interests in the conservation, development, and use of water resources; provide training opportunities in higher education whereby skilled professionals become available to serve government and private sector alike; assist planning and regulatory bodies at the local, state, regional, and federal levels; communicate research findings to potential users in a form that encourages quick comprehension and direct application to water-related problems; assist state agencies in the development and maintenance of a state water management plans; and facilitate planning and management related to water policy issues.

**Natural Resource Enterprises (NRE)**—The Natural Resource Enterprises (NRE) Program was established in the Department of Wildlife and Fisheries and Cooperative Extension Service at MSU to educate non-industrial private landowners about sustainable natural resource enterprises and compatible habitat management practices. It focuses on effectively delivering information that will encourage informed decision-making regarding land management.

**Wood Utilization Research Center (WUR)**—The Wood Utilization Research Center at MSU is one of 12 university partners distributed throughout the country. Jointly, the WUR Centers address the major problems confronting the domestic forest products manufacturing industry in all of the forest regions of the U.S. The WUR program has enabled the nation’s wood products industry to advance technologically and position universities to help an industry with limited ability to help itself. A major benefit is its flexibility to rapidly address critical regional or national research needs. The WUR Center stimulates new knowledge and technologies necessary to balance the sustainable use of U.S. forest resources with the need to maintain a vigorous, globally competitive domestic forest products industry. MSU departments of Forest and Forest Products participate and provide research and assistance.
College of Veterinary Medicine

Center for Environmental Health Sciences—The Center for Environmental Health Sciences focuses on University activities directed toward maintaining and improving the quality of environmental health by uniting researchers from different MSU units to work on common problems requiring interdisciplinary solutions. Disciplines and research interests include biochemical toxicology, neurotoxicology, pesticide toxicology, analytical chemistry, epidemiology, mixtures toxicology, exposure assessment, health disparities, mathematical modeling, and computational chemistry. The Center’s goal is to facilitate the development, implementation, and administration of efforts in research, training, and service in the area of environmental health.

GENERAL GRADUATE SCHOOL ADMISSION REQUIREMENTS

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, PO Drawer 6199, Mississippi State, MS 39762, telephone 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.

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.

I. ADMISSION POLICY

The Office of the Graduate School is responsible for the administration of the University graduate admission policy. The decision to admit an applicant to pursue graduate study at MSU is based upon evaluations of both qualitative and quantitative information. An applicant must provide a completed application form, a statement of purpose for graduate study, three letters of recommendation, records of previous academic achievements, and a non-refundable application fee of $40 (not required of full-time benefits-eligible MSU employees). Some degree programs may require additional credentials, such as the Graduate Record Examination or another standardized test score. A summary of degree programs and standardized tests required as part of admissions criteria is found on the last pages 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 for 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 the Graduate School. 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 coordinator of each degree program. (See Concurrent (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, letters of recommendation, 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 the Graduate School 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 MSU 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 the Graduate School according to the following schedule.

<table>
<thead>
<tr>
<th>Applying For</th>
<th>Domestic Deadline</th>
<th>International Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>July 1</td>
<td>May 1</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>November 1</td>
<td>September 1</td>
</tr>
<tr>
<td>1st Summer Term</td>
<td>April 1</td>
<td>March 1</td>
</tr>
<tr>
<td>2nd Summer Term</td>
<td>May 1</td>
<td>March 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.

**Admission Tests**

Information about required tests is found in specific degree and program requirements. That information can also be found in the Quick Reference at the end of this publication. See Assessment and Testing Services for MSU-testing information.

**A. DOMESTIC STUDENTS**

**Applications**—Graduate applicants are encouraged to apply on-line and can access the application at [http://www.grad.msstate.edu/](http://www.grad.msstate.edu/) if applying online. The Statement of Purpose must also be submitted online. Recommendation letters may be submitted electronically if an e-mail address is provided by the applicant. If the e-mail address is not provided, the reviewer must submit a letter or paper form by mail. If the recommendation is submitted electronically, a paper copy is not necessary. The application fee may be paid online. An applicant must request an official transcript from the bachelor’s degree institution and from each college or university attended following the bachelor’s degree. (Distance Education applicants must submit two copies of official transcripts.) If fewer than 60-70 hours were completed at the institution which awarded the bachelor’s degree, an official transcript from the previous institution(s) is required as well. The department may require previous transcripts to verify prerequisites. The official transcript must be in a sealed envelope bearing the institution’s return address with the Registrar’s signature or stamp across the flap.

**Domestic Application Checklist**

- Application (if not applying electronically)
- $40 (non-refundable) Application Fee (not required of full-time benefits-eligible MSU employees)
- Statement of Purpose
- Three Letters of Recommendation
- GRE or GMAT scores (if applicable)
- Official transcript showing bachelor’s degree or progress toward degree
- Official transcript showing all work after bachelor’s degree
- Distance Education applicants must submit 2 copies of official transcripts.

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 be guaranteed 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. They may be found in the description of the specific programs. The Office of the Graduate School prefers for applicants to use the online application process. All required materials not submitted electronically must be mailed to: Office of the Graduate School; Box G; Mississippi State, MS 39762

**Instructions for Reporting Grade Point Averages**—

Please compute grade point averages (GPA) using one of the following methods.

**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, military credit, and proficiency exams 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.

B. INTERNATIONAL STUDENTS

Priority Applications—To be considered for admission, all supporting materials should be in the Office of the Graduate School 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 coursework has been completed. The official transcript must be in a sealed envelope bearing the institution’s return address with the Registrar’s signature or stamp across the flap.

Completed applications received after the final deadline dates will not be guaranteed admission consideration for the desired academic terms. It is the applicant’s responsibility to ensure that all supporting materials are received. The Office of the Graduate School prefers for applicants to use the online application process. All required materials not submitted electronically must be mailed to: Office of the Graduate School; Box G; Mississippi State, MS 39762

English as a Second Language (ESL) Test Score Requirements

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.

An international student, except as noted above, must have either a TOEFL (Test of English as a Foreign Language) score or an IELTS (International English Language Testing Systems) score. A minimum TOEFL score of 575 PBT (Paper-Based Test) or 233 CBT (Computer-Based Test) or 88 iBT (Internet-Based Test) is required for admission to Mississippi State University. The required IELTS score is 4.5.

Exceptions to the required score include the following requirements:

• The College of Veterinary Medicine requires a minimum TOEFL score of 500 PBT or 173 CBT or 61 iBT or an IELTS score of 5.5.
• The College of Education requires a minimum TOEFL score of 520 PBT or 213 CBT or 79 iBT or an IELTS score of 6.5 for admission to master’s and doctoral level programs.
• The College of Business requires a minimum TOEFL score of 575 PBT or 233 CBT or 84 iBT or an IELTS score of 7.0.

Other departments may also have a minimum TOEFL requirement higher than TOEFL equivalents of 575 PBT, 153 CBT, 53 iBT or IELTS 4.5. The applicant should check the requirements of the specific department.

A total of two TOEFL or IELTS scores will be accepted per student admission application, and both must be submitted prior to enrollment in a graduate program. Only one type of test score (TOEFL or IELTS) can be submitted per applicant; therefore, a student cannot submit one TOEFL score and one IELTS score. If two test scores are submitted, the higher score will be the valid score in determining whether a student is...
granted regular admission or must successfully complete ESL courses as a contingency for full admission (per Graduate Council, August 2010).

International applicants who complete the Professional Mastery Program at the MSU ESL Center may submit a certificate of completion with their application in place of English language test scores (per Graduate Council, February 2008).

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 or IELTS 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 old) national test score must retake the test and score a minimum of 477 PBT or 153 CBT or 53 iBT on the TOEFL or 4.5 on the IELTS.

TOEFL/IELTS-hold Admission

An applicant who does not attain the TOEFL or IELTS score required for admission into the desired academic program but attains a score of 477 on the paper-based TOEFL (or equivalent) or an IELTS score of 4.5 may be given contingent admission into the program. A hold is placed on the student’s record and is removed when the required ESL coursework is completed. See information below to determine course requirement(s) for scores between 550 and 477 on the paper-based TOEFL or equivalent or between 6.5 and 4.5 on the IELTS.

A student who does not attain a TOEFL of 477 on the paper-based test (or equivalent) or an IELTS score of 4.5 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 admission (477 on paper-based TOEFL or equivalent or 4.5 on the IELTS), the student will complete the application process for admission.

English as a Second Language (ESL) Test Score Requirements

Effective January 1992, the following requirements were established 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 PBT or 213 CBT or 79 iBT or an IELTS (International English Language Testing System) score of 6.5 will be considered proficient in English. In those programs with a test requirement higher than these equivalencies, a student must attain this higher score or be admitted contingent on satisfying this departmental requirement. A student admitted to the University with a national TOEFL or IELTS score less than the proficient-level equivalencies is required to enroll in the appropriate English as a Second Language (ESL) course requirement(s) beginning with the initial enrollment period. These requirements, depending on the score, are listed below.

- A qualified student with either a TOEFL score between 547-523 PBT or 210-193 CBT or 78-69 iBT or an IELTS of 6.0 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 of EN 1103 to ESL 5323 effective January 2005 per Graduate Council.)

- A qualified student with either a TOEFL score between 520-500 PBT or 190-173 CBT or 68-61 iBT or an IELTS score of 5.5 is required to enroll on a credit basis in ESL 5120, a 9-hour 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 granted special permission by the Dean of the Graduate School. 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 eligible to enroll in ESL 5323 Academic Research and Writing, and the TOEFL or IELTS score is no longer a factor.

- A student whose test score falls below these equivalencies is not eligible for a graduate assistantship until the language proficiency requirement is satisfied.

- A qualified student with either a TOEFL score between 497-477 PBT or 170-153 CBT or 59-53 iBT or an IELTS score of 5-4.5 is required to enroll on a credit basis in ESL 5110, 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 granted special permission by the Dean of the Graduate School. 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 eligible to enroll in ESL 5120, and the TOEFL or IELTS score is no longer a factor.

- A student whose test score falls below these equivalencies is not eligible for a graduate assistantship until the language proficiency requirement is satisfied.

- 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 for the subsequent semester and will then be exempt from the requirement to enroll in ESL 5120 in the ESL program.

- A student with a TOEFL score below 477 PBT or 153 CBT or 53 iBT or an IELTS score of 4.5 will be enrolled in the ESL Center on a non-credit basis. In order to be subsequently considered for admission to graduate study, the student must submit a minimum national TOEFL score of 477 PBT or 153 CBT or 53 iBT or an IELTS score of 4.5.

- A qualified student who submits a minimum national TOEFL score of 477 PBT or 153 CBT or 53 iBT or an IELTS score of 4.5 along with a Certificate of Completion from the ESL Center may be admitted on a conditional basis. 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.

- The Dean of the Graduate School will monitor the program and certify each graduate student as he or she fulfills the English proficiency requirements.

- In summary, the course requirements for international students admitted with a Test of English as a Foreign Language (TOEFL) score of less than 550 PBT or 213 CBT or 79 iBT or an International English Language Testing System (IELTS) score of less than 6.5 are as follows.

<table>
<thead>
<tr>
<th>Score</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>550 PBT or 213 CBT or 79 iBT (TOEFL) or 6.5 (IELTS)</td>
<td>Regular Admission</td>
</tr>
<tr>
<td>547-523 PBT or 210-193 CBT or 78-69 iBT (TOEFL) or 6 (IELTS)</td>
<td>ESL 5323</td>
</tr>
<tr>
<td>520-500 PBT or 190-173 CBT or 68-61 iBT (TOEFL) or 5.5 (IELTS)</td>
<td>ESL 5120</td>
</tr>
<tr>
<td>497-477 PBT or 170-153 CBT or 59-53 iBT (TOEFL) or 5-4.5 (IELTS)</td>
<td>ESL 5110</td>
</tr>
<tr>
<td>Below 477 PBT or 153 CBT or 53 iBT (TOEFL) or 4.5 (IELTS)</td>
<td>non-credit ESL (applicants in this category will not be admitted to graduate study but may subsequently be considered for admission as described in category 5.)</td>
</tr>
</tbody>
</table>

English as a Second Language (ESL) Center—The ESL Center, as a part of International Education 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.

Conditional Admission Policy for International Student Applicants Lacking English Language Test Score Requirements

A prospective international applicant who meets all requirements but is without a TOEFL or IELTS score may be admitted conditionally into Graduate School if, after one year of ESL study at MSU, the student passes the required language test. Students accepted under this conditional admission policy would already
have been identified for future matriculation by a department by virtue of meeting all other requirements for admission. These students are not allowed to take any classes other than ESL classes and are placed on hold to prevent registration for other courses. The applicant can only receive full admission to the Graduate School after completing the conditional requirements (per Graduate Council, November 2010).

II. ADMISSION PROCEDURE
A person 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.grad.msstate.edu/. An applicant can also e-mail a request for an application packet to gradapps@grad.msstate.edu. Send requests for an application packet to: Office of the Graduate School; Box G; Mississippi State, MS 39762

The academic year comprises two regular semesters, beginning in August and January, and a summer session beginning in May. For specific dates, see the Graduate Academic Calendar at the front of this publication. An individual who submits an application for admission should act promptly to see that all required supporting documentation is received at least by the dates given in the Graduate Academic Calendar. An individual must have a valid admission status in the Office of the Graduate School 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 graduate admission, including the application and other requirements listed, must be submitted in the following instances.

- An individual who is pursuing the requirements of one graduate degree and desires to pursue the requirements of another graduate degree
- An individual who is enrolled in one graduate degree program but wishes to change to a different program
- An individual who received a “letter of admission” but did not enroll for the semester admitted within one year
- An individual who is pursuing a graduate degree and desires to pursue a second degree concurrently

Degree Level Change: A student admitted to a degree program may subsequently want to change degree levels (e.g., from PhD to master’s) in the same program. This student should submit to the Graduate School a Request for Change of Degree Level or Concentration form, including all required signatures. No other document is required. The student must remain in the original degree at least one semester before changing. Changes must be made before the semester begins.

Concentration Change: A student admitted to a major that has several concentrations (e.g., major in Life Sciences with concentrations in Entomology and Plant Pathology; Genetics; and Animal Physiology) may wish to change concentrations. A student wishing to change concentrations within the same department or the same umbrella major must submit the Request for Change of Degree Level or Concentration form including all required signatures. No other document is required. The student must remain in the original concentration at least one semester before changing. Changes must be made before the semester begins.

Campus Change: A student admitted to a degree program on one campus who wishes to change to another campus where the program is also offered must submit the Graduate Request to Change Campus form to the Graduate School. The form must be signed by the student, the current-campus graduate coordinator, and the graduate coordinator of the new campus. If the student is Unclassified, the Dean of the Graduate School will sign the form as the graduate coordinator on both campuses. The student must remain on the original campus at least one semester before changing. Changes must be made before the semester begins.

Recommendation Letters: New letters of recommendation are required when a graduate student is

- applying to a different major
- applying to a different degree level
- adding a new major (dual degree)
- updating after one year (student was admitted but did not attend, student cancelled, the application was incomplete, or the department made no decision)
- applying to the same program after being rejected due to academic deficiencies.

Previous letters of recommendation from the student’s file may be used when the student is

- deferring to a later semester within one year of being admitted
- updating within one year (student cancelled, the application was incomplete, or the department made no decision)
• applying to the same program within one year of being rejected due to lack of funding, available faculty, or openings in the program.

Graduate coordinators may request by e-mail that the requirement for new letters of recommendation be waived if the applicant is applying within the same department at the same level or a lower level.

1. 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. However, 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:
A. 2.75 GPA on the last two years (approximately 60-70 semester hours or 90-100 quarter hours) of undergraduate academic coursework
B. 2.75 GPA on 30 or more semester hours undergraduate credit after earning the first bachelor’s degree
C. 2.75 GPA on the last two years (approximately 60-70 semester hours or 90-100 quarter hours) of undergraduate academic coursework and a 3.00 GPA on fewer than 24 hours graduate coursework
D. 3.00 GPA on 24 or more graduate hours
E. An earned master’s degree or higher-level degree.

An applicant 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 Provisional Admission in this publication.)

Meeting minimum requirements for admission does not 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 the Graduate School in writing.

Graduate programs may prescribe requirements for regular admission in addition to those described above. For this information, see the specific program section in this publication.

2. Provisional Admission
A student who has not fully met the GPA or other 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 student must have as the initial objective advancement to regular status.

A student admitted to provisional status is eligible for advancement to regular status after receiving a 3.00 GPA on the first 9 hours of regular graduate-level courses taken at Mississippi State University. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. 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; a student admitted with provisional status should contact the graduate coordinator for the program’s specific requirements.

While in the provisional status, a student is not eligible to hold a graduate assistantship.

3. Contingent Admission
A student may be admitted with a 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 the degree. When the Office of the Graduate School receives the transcript showing the degree was awarded, 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 admissions contingencies are monitored by the department and usually are prerequisite courses, standardized tests, or another similar requirement. When this contingency information is included in the program’s admission decision, the Graduate School verifies during the degree audit that the requirements were fulfilled.

4. Admission Based on Academic Amnesty
Academic amnesty is designed to provide graduate students previously enrolled at MSU the opportunity
to have up to 9 hours of previously completed graduate courses eliminated from the computation of his or her grade point average upon successful readmission. More information is found under Academic Amnesty in the General Graduate School Requirements section of this publication. (AOP 20.18 http://www.msstate.edu/dept/audit/PDF/1218.pdf)

5. 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. Distance Education applicants must submit two copies of official transcripts. Students admitted in unclassified status must remain unclassified for one semester before being admitted to a degree program. Nine graduate hours of work earned 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.

There are limitations to Financial Aid for students in the unclassified status. Applicants seeking Financial Aid should contact Student Financial Aid at 662-325-2450.

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 are not required to submit a transcript in order to enroll in a graduate course as an unclassified graduate student. An applicant desiring unclassified admission to take graduate-level courses in business and economics must have a GPA of 3.00 out of 4.00. Application and registration as an unclassified graduate student include the following steps:

1) The applicant submits an Unclassified Graduate Application, an official transcript showing proof of an earned baccalaureate degree from an accredited institution (Distance Education applicants must submit two copies of official transcripts), and a $40 non-refundable application fee to the Office of the Graduate School, Box G, Mississippi State, MS 39762. The Office of the Graduate School will issue a letter of admission to the student. An international applicant in the local area must obtain approval of the Dean of the Graduate School before admission. Proof of identification is required. Distance Learning unclassified international applicants in F-1 status in the U.S. at another institution must submit confirmation of student enrollment from the International Student Advisor at the current institution on university letterhead.

2) To register for classes, the student must receive permission from the academic department in which she/he wishes to take a course(s). The graduate coordinator or course instructor signs an advising sheet, and the department must enter in Banner a “major override” for each course approved for the student to take. Only the department offering the course can enter this override, and the unclassified graduate student cannot register without it.

3) The student takes the signed advising sheet to the Office of the Graduate School to obtain a Registration Access Code (RAC), since the Dean of the Graduate School serves as the official advisor for unclassified graduate students. The student will be advised that no more than 9 semester hours of unclassified graduate work may be applied to an advanced degree program at MSU.

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

5) Unclassified students who apply through Academic Outreach and Continuing Education will complete class registration through that office.

6. Military Deferment
A military student who has been admitted to a degree program but has not yet registered and who subsequently receives deployment orders may request deferment of admission. The new date of admission may be up to two years from the date of release from active duty (per Graduate Council, January 2008). If the student takes classes from another university of college during the deferment period, an official transcript must be submitted.

7. Readmission
Once enrolled in graduate study, a student who subsequently fails to enroll for three consecutive semesters (excluding summer) must complete an Application for Readmission to register again (Graduate Council, November 2005). The application form is available in the Office of the Graduate School or online at www.grad.msstate.edu/.

NOTE: This process does not negate the continuous enrollment requirement. Please refer to the Continuous Enrollment section under General Requirements of the Graduate School.

Each applicant must submit a $40.00 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. Readmission to any graduate degree program in the Department of Political Science and Public Administration, the College of Veterinary Medicine, or the Department of Leadership and Foundations requires that a student who has not been enrolled for one regular semester (fall or spring) submit a readmission form to be approved by the graduator coordinator. A student in the Department of Counseling and Educational Psychology, Department of Political Science and Public Administration, in the College of Veterinary Medicine, or in the Department of Leadership and Foundations who has not been enrolled at Mississippi State University for one calendar year must submit a new application and statement of purpose to be considered for readmission.

8. Faculty Admission
An MSU faculty member 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 MSU should not expect promotion beyond that rank as long as he/she is working for the advanced degree.

9. Senior Citizens
Legal residents of the State of Mississippi age 60 or older (senior citizens) may enroll tuition-free in a maximum of two on-campus courses per semester (or combined summer term) at the Starkville or Meridian campus. This is a maximum of 6 hours per semester (fall, spring, or combined summer term) with a maximum of 18 credit hours per calendar year. Course registration is available to senior citizens on a space-available, first-come, first-serve basis. Courses offered for the Doctor of Veterinary Medicine degree program are not included in this program. The application fee of $40.00 is required with the graduate application.

10. Undergraduate Enrollment in Graduate Courses
An undergraduate student at Mississippi State University or any university with which Mississippi State University has agreements (per Graduate Council, October 2007), who lacks 12 or fewer credit hours to complete the undergraduate degree requirements may seek approval to enroll in courses for graduate credit in the final undergraduate semester or term. The student should meet the grade point average requirement for regular admission to the particular graduate program. An undergraduate student may take up to 9 graduate credit hours; the combination of undergraduate and graduate credit hours may not exceed 13. Any exception to the stated criteria must be approved by the Provost (per Graduate Council, May 2004).

In order to register for the course(s), the MSU student must submit the Undergraduate Request to Enroll in Graduate Courses form (http://www.grad.msstate.edu/forms/) signed by the student’s undergraduate department head, dean of the student’s college, and instructor(s) of the graduate course(s). The completed form is taken or sent to the Office of the Graduate School where an override is entered, enabling the student to register for the course(s).

An undergraduate at another university must submit the completed Transient Undergraduate Request to Enroll in Graduate Courses form to the Office of the Graduate School. When the request is approved, the student will apply online to the Graduate School as an unclassified graduate student and submit an official transcript, a letter of good standing, and a $40 non-refundable application fee. Upon admission, the student may then register through the appropriate campus.

III. LEGAL RESIDENT STATUS
Students are classified as in-state or out-of-state for the purpose of paying University fees. The Office of the Graduate School 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.

The following Institutions of Higher Learning and Mississippi State University 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:

Institutions of Higher Learning
http://www.ihl.state.ms.us/board/downloads/policiesandbylaws.pdf
Paragraphs 610 and 611
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 (21) and has since their twenty-first birthday established residency and resided within the State of Mississippi for twelve (12) consecutive months may: (1) upon sworn affidavit and other representation, and (2) who can prove 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.
2. A petition for change of residency must be received prior to the last day a student may register without penalty 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 30 days to register vehicles.)
- Driver’s license held (Persons moving into the state on a permanent basis have 60 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 who are currently awarded band scholarships
3. Those who are currently awarded choral scholarships
4. All graduate students holding assistantships. (Rules applicable to these awards may be found in the Graduate Assistantship section of this publication.)
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 coursework or received a degree from Mississippi State University. Graduate students must maintain a B (3.00) grade point average to continue eligibility for this award.
6. Non-resident students who are certified participants in The Academic Common Market

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, Southern Regional Education Board, 592 10th Street NW, Atlanta, GA 30318-5790 or access the Website at http://www.sreb.org/page/1304/academic_common_market.html.

IV. 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. A student will not be allowed to register for classes until this requirement has been met. Prior enrollment at MSU does not automatically clear a student from immunization updates. This proof consists of one of the following:

a. 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. 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 pregnant women with a physician’s letter of confirmation and expected date of confinement, or women suspecting pregnancy.

Permanent waivers are given for students:
1. born before January 1, 1957, or
2. providing documented proof of a significant life-threatening allergic reaction to this particular vaccine (requires documentation of reaction), or
3. with a disease that will cause a permanent contraindication to immunization (requires documentation of disease).

A student can confirm his/her status with Longest Student Health Center by emailing health@msstate.edu or by calling 662-325-0706. Additional information regarding this requirement is available at: http://www.health.msstate.edu.

**GENERAL GRADUATE SCHOOL REQUIREMENTS**

**Disclaimer**
Each student is responsible for knowing and completing all requirements established for his or her degree by the University, college, and department. A student’s advisor does not assume that responsibility. Any substitution, waiver, or exemption from any established departmental or college requirement or academic standard is accomplished only with the approval of the student’s academic college dean. Exceptions to University requirements, including the general education (core) requirements, are authorized only with the approval of the student’s dean and the dean of the Graduate School.

**HONOR CODE**
The MSU Honor Code, adopted in 2007, states: “As a Mississippi State University student, I will conduct myself with honor and integrity at all times. I will not lie, cheat, or steal, nor will I accept the actions of those who do.” The policy, complete with associated definitions, rules, and programs, is available online at www.honorcode.msstate.edu.

**DEGREE PROGRAM FORMS**
All forms utilized by graduate students to complete master’s, educational specialist, and doctoral programs are listed below. These forms are posted in PDF format on the Office of the Graduate School website at http://www.grad.msstate.edu/forms/.

<table>
<thead>
<tr>
<th>Required for All Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate Committee Request</td>
</tr>
<tr>
<td>Graduate Program of Study</td>
</tr>
<tr>
<td>Report of Examination Results (accessible only to faculty members and must be submitted to the Graduate School by the department)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required for Doctoral Degrees Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admission to Candidacy</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required in Special Circumstances for All Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request for Change of Committee Members</td>
</tr>
<tr>
<td>Change to Graduate Program of Study</td>
</tr>
<tr>
<td>Graduate Program of Study – Continuation Sheet</td>
</tr>
<tr>
<td>Graduate Program of Study – Attachment Sheet</td>
</tr>
<tr>
<td>Distance Student Certification of Off-Campus/Non-MSU Research Facility (online degree programs)</td>
</tr>
<tr>
<td>Transfer Approval</td>
</tr>
<tr>
<td>Request to Retake a Course</td>
</tr>
<tr>
<td>Request for Extension of Time</td>
</tr>
</tbody>
</table>

Although the major professor and committee are integral to this process, the student is primarily responsible for the department’s timely submission of all required forms.

**ENROLLMENT REQUIREMENTS**

**Continuous Enrollment**
A graduate student who has completed all coursework and lacks only the completion of the thesis or dissertation must be continuously registered for a minimum of one credit hour during the fall semester and one credit hour for either the spring or summer semester of each academic year (per Graduate Council, Fall 2007). This requirement applies to students in one of the following circumstances:

a. a doctoral student who has completed all coursework, passed the preliminary/comprehensive examinations and been admitted into candidacy;
b. an educational specialist student who has completed all the coursework but has not taken or passed the final examinations;
c. an educational specialist student who has completed all the coursework, passed the examinations, and is working on a thesis;
d. a master’s degree student who has completed the coursework but has not taken or passed the final examinations; or
e. a master’s degree student who has completed all the coursework, passed the examinations, and is working on a thesis.

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

A student must enroll at MSU for at least one credit hour for the semester in which she or he:
* takes the comprehensive examination;
* proposes a thesis/dissertation;
* defends a thesis/dissertation;
* submits initial and final thesis/dissertation documents to the Library.

A student who holds a graduate assistantship must maintain full-time enrollment. Other students may need to be enrolled full-time for different reasons.

Course Load

Full-time, Fall and Spring—A full-time course load for fall and spring semesters is enrollment in 9 through 13 credit hours. A student may register for up to 16 hours by submitting a scheduling overload form [www.provost.msstate.edu/students/forms/Request_for_scheduling_overload_graduate_students.pdf] approved by the appropriate college dean to the Registrar’s Office.

Full-time, Summer—The maximum course load is 3 credit hours for Maymester; 7 hours for a 5-week summer session; 13 hours for the 10-week term, or a total of 13 hours for the entire summer semester. A total of 6 hours is considered full-time summer enrollment.

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

A student receiving an assistantship appointment is required to maintain full-time enrollment throughout the full appointment period. Audit hours may not be used to satisfy the full-time enrollment requirement. See the Graduate Assistantship section of this publication for a description of enrollment and all requirements for holding an assistantship.

REGISTRATION

Procedure

To prepare for registration, a graduate student in a degree program meets with his/her advisor to determine the course(s) for the subsequent semester and to receive a Registration Access Code (RAC) for online registration.

A student in a distance program must follow registration procedures specified by the program.

An unclassified graduate student is not in a degree program and to register must:
* request permission from the department(s) offering the course(s) (the graduate coordinator or each course instructor)
* request the department to enter a major override in the student’s Banner record for each course
* submit the departmental approval to the Office of the Graduate School in order to receive the Registration Access Code (RAC). See Unclassified Admission in this publication for complete admission/registration procedure.

Add/Drop Courses

To add a course after online registration has closed, the student must use an add/drop form.

A registered student wishing to drop a course after classes begin must use an Add/Drop form, even if he/she never attended the class. Tuition and fees are incurred after classes begin; the date of the drop affects the amount the student may be refunded. A student enrolled in courses offered through Academic Outreach and Continuing Education (AOCE) must contact AOCE for assistance.

Add/Drop Schedule

a. Add/Drop without penalty - A student can drop a class during fall and spring semesters through the fifth class day and can add a course through the sixth class day without fee assessment or academic penalty.

b. Drop after the fifth class day through the 30th class day - A student who drops a course after the fifth day will receive a W on his/her transcript and be assessed a fee. The student’s advisor specifies the effective date on the Add/Drop form.

c. Drop after 30th class day - A student can drop classes in documented cases of serious illness, extreme hardship, or failure of the instructor to provide significant assessment of academic performance. The student’s advisor and academic dean must approve the request, and the dean specifies the effective date. The student receives a W on the transcript and is assessed a fee.
Academic Outreach and Continuing Education (AOCE) students must contact that office for further add/drop information.


**Withdraw from the University**

(Drop entire semester schedule for specific campus)

To drop the entire schedule at any one campus before the semester ends, the student must confer with his major professor and submit to the academic college dean for approval a withdrawal from the University form. Unclassified students withdraw through the Office of the Graduate School. By completing this process the student avoids automatic grades of F and outstanding tuition and fees. Following the procedure also prevents future difficulties in obtaining transcripts or reentering the University. The withdrawal is effective only for the specific semester; in most circumstances the student is permitted to register for the following semester.

A student enrolled in courses offered through Academic Outreach and Continuing Education (AOCE) must contact AOCE for withdrawal information.

The withdrawal of a student is not effective on any 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.

The student is responsible for payment of all tuition and fee charges unless he/she CANCELS HIS OR HER SCHEDULE before classes begin. See the refund schedule at [http://www.controller.msstate.edu](http://www.controller.msstate.edu). Failure to take appropriate action may result in significant payment obligations and holds.

**Retroactive Withdrawal Procedure**

In rare and unusual circumstances, a student may request a retroactive withdrawal for a previous semester. The student must submit a signed, student-written petition providing the following required information.

- * full name, 9-digit ID, and degree program at the time
- * detailed rationale for the request
- * documentation from professor(s) confirming effective withdrawal date based on the last date of class attendance
- * supporting documentation from physician, counselor, etc., if applicable
- * copy of MSU transcript

* a signed statement, if student was receiving financial aid, confirming that the student consulted with the Financial Aid Office and understands consequences that may result from a retroactive withdrawal

* a signed statement confirming any graduate assistantship or fellowship that the student held during the affected semester.

The student’s academic dean, the dean of the Graduate School, and the Provost must approve the retroactive withdrawal.

**Course Retake Policy**

See PROGRAM OF STUDY section below.

**Audit a Course**

During registration and the first ten days of class in a semester, a student is permitted to enter class as an auditor unless authorized by the dean of the college 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 audited course counts as part of the regular load as if taken for credit. 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.

A student who audits a course receives a grade designation of AU on his/her transcript. A student earns no other grade, quality points, or credit hours for the audited course, and an audited course cannot be listed on a graduate program of study. Likewise, a graduate assistant cannot include an audited course as part of his/her full-time course load requirement.

**Concurrent (dual) Degree Matriculation**

An applicant may apply and be admitted to be in more than one degree program concurrently. This requires prior approval of each department. If the student is approved to pursue two same-level degrees (master’s or doctoral) concurrently at MSU, no more than 9 hours of coursework from one degree program may be applied toward meeting the requirements for the second degree. This policy applies only to same-level degrees; master’s program courses cannot be applied to a doctoral program of study, nor can doctoral courses be applied to a master’s program.

**GRADUATE COMMITTEE Membership**

Each degree section of this publication lists committee membership requirements specific to that degree. The student and committee complete and
submit the committee request form (http://www.grad.msstate.edu/forms/#degree) to the Office of the Graduate School. If problems should arise concerning committee membership, the student should follow the academic status appeal procedure.

**Membership Changes**

When a student’s graduate committee membership must change, the change(s) are submitted to the Graduate School on the committee change form (http://www.grad.msstate.edu/forms/#degree), which requires signatures of the new and departing committee members and the student. If, subsequent to the administration of the final oral/written comprehensive examination, a student’s request to remove a member of the graduate committee is not met with the approval of that member, then the student must submit to the Dean of the Graduate School a written request for removal of the committee member. This request must contain suitable justification for such action. The Dean of the Graduate School will then decide if removal is necessary and accordingly inform the student, the committee member, the major professor, and the graduate coordinator.

**MSU Graduate Faculty**

A faculty member must have a current Graduate Faculty appointment to serve on a student’s graduate committee. MSU Graduate Faculty members are listed by college/department beginning on page 248 of this publication. The list is also available at http://www.grad.msstate.edu/faculty/.

**PROGRAM OF STUDY**

**Prerequisites**

Students may be required to take prerequisite courses in addition to degree-program classes. The department will decide when the student has satisfied these requirements.

**Program of Study**

Using the Bulletin of the Graduate School for the academic year of admission, the student must complete with his/her graduate committee a program of study consisting of all courses required for degree completion according to the University-approved requirements and the program requirements. Refer to the specific degree section for Graduate School requirements as well as the department/program requirements. The student and the committee also identify research skill requirements and/or other requirements for degree completion. No audited course, undergraduate course, or course used in a previous degree program can be included on a graduate program of study.

**Program of Study Changes**

If a program of study submitted to the Graduate School subsequently changes, the student must submit a change of program form to make required additions and deletions. The form is accessed at http://www.grad.msstate.edu/forms/#degree.

**Off-Campus Credits**

Graduate credit hours toward advanced degrees may be earned at the Meridian Campus 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.

**Transfer Credit**

Transfer credit hours from other domestic universities, international universities, or military educational programs may be used to fulfill requirements for graduate degrees at MSU provided they meet the following criteria: 1) where appropriate, credit hours were earned in programs fully accredited by the appropriate regional and national accrediting bodies; 2) credit hours contribute to the current program of graduate study; and 3) credit hours were taken within the appropriate time limit for the current program at completion of the degree (reference General Degree Requirements under Master’s, Educational Specialist, Doctor of Philosophy, or Doctor of Education). Only courses in which grades of B or higher were earned are accepted for transfer. Courses with grades of Pass/Fail or S/U are generally not eligible for transfer. Students may not transfer courses used to earn a previous degree.

In all cases, the decision to accept and designate transfer work begins with the student’s graduate advisor or committee. Once it is determined that the course meets the required criteria, the student must submit a Transfer Approval Form bearing required committee signatures and an official transcript to the Office of the Graduate School (see Transfer Approval Form on the Office of the Graduate School Website).

Transfer courses may be given the name that appears on the original transcript but must have the designation of Special Topic (6990/8990). Alternatively, the course may be re-titled using the name, symbol, and number of the equivalent MSU course.

Transfer credit cannot be used to satisfy provisional admission requirements. Graduate credit is not
Transfer of Domestic Credit—A student seeking to transfer courses from domestic universities is responsible for submitting transcripts, as well as course descriptions and syllabi as required by the graduate advisor or committee for review. The committee will determine those courses appropriate for transfer based on assessment of course content. Credits transferred from domestic universities will be included in the calculation of the student’s final grade point average.

Transfer of International Credit—A student seeking to transfer courses from universities outside the US is responsible for submitting transcripts, course descriptions, and syllabi in English for committee review. The committee will determine appropriate courses for transfer based on assessment of course content and will work with the Office of the Graduate School to ensure that the equivalent of a grade of B or higher was earned. The Office of the Registrar will note such courses on the MSU transcript followed by an S. These grades will not be included in the calculation of the student’s final grade point average.

Transfer of Military Credit—A student seeking to transfer courses from military educational programs is responsible for submitting transcripts, course descriptions, and syllabi for committee review. The committee will determine appropriate courses for transfer based on assessment of course content and will work with the Office of the Graduate School to ensure that the equivalent of a grade of B or higher was earned. The Office of the Registrar will note such courses on the MSU transcript followed by an S. These grades will not affect the calculation of the student’s final grade point average. Evaluations by the American Council of Education (ACE) may be used by programs in making decisions concerning the transfer of military courses.

Minor
A minor is a block of current coursework 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 in a master’s program requires 1) at least 9 hours of graduate coursework; 2) approval of the student’s major professor; 3) a MSU faculty member from the minor area serving 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. Up to one-third of the required hours toward a minor may be transferred to MSU. Hours transferred toward fulfillment of a minor must be relevant in content to the graduate program when the degree is awarded and must fit within the time-limit requirements for the specific degree (per Graduate Council, September 2005 and March 2010).

A minor in a doctoral program requires: 1) at least 12 hours of graduate coursework; 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.

Course Retake Policy
A student may retake a course if his/her request is approved. Only one course can be repeated per degree, and this policy is not exclusive to courses on the program of study. The repeated course must be taken at MSU. Both courses will remain on the permanent transcript, and both grades will be included in the computation of the final GPA. No additional program credit hours are generated from a repeated course. If the retake is approved, the department must enter an override to allow enrollment a second time. Some courses are approved for repeated enrollment and credit (e.g., internships, special topics, thesis, dissertation, etc.), and additional program credit hours are generated in these cases.

Distance Student Certification of Off-Campus/Non-MSU Research Facility
Students enrolled in graduate programs (master’s, educational specialist, or doctoral) that are offered via distance learning and require a thesis or dissertation must meet established research requirements as stated in the Mississippi State University Graduate School Bulletin. Distance education students engaged in research will be provided the same student support services given to on-campus students, including access to library resources, thesis and dissertation workshops, etc.

MSU believes that special attention must be directed toward the mentoring of the students and the development of a creative and supportive environment for research hours offered via distance. Each academic unit which administers a distance graduate degree program with a thesis or dissertation will determine and define the appropriate use of...
communication and technology. A student’s thesis/dissertation committee must approve the procedures which the student must follow to ensure quality and integrity of the research process at the proposal, data collection/analysis, and final defense stages. Should the student request, or be required, to conduct research at an off-site research facility, appropriate certification must be completed prior to beginning the research process. The form is required of all distance students submitting a thesis or dissertation and must be submitted to the student’s committee to document the research facility involved (if applicable). describe the software utilized, and provide a thorough description of the proposed research.

Any department offering such a distance program must include specific language that addresses delivery of research/thesis or research/dissertation hours via distance learning in a published format (policy handbooks for approved distance programs, website, etc.) (per Graduate Council, April 2007).

**ACADEMIC REQUIREMENTS**

**Transcripts for Admission**

A graduate from another institution seeking admission to graduate study must provide official transcripts from the college which the applicant is attending or has attended and from which he/she will receive or has received a bachelor’s degree. Transcripts for all work attempted after the bachelor’s, including undergraduate and graduate, at the time she/he applies for admission must be provided (per Graduate Council, April 2006; see General Requirements for Admission).

**Provisional Admission Requirements**

A student who has not fully met the GPA or other requirements stipulated by the University and the graduate program admitting the student may be admitted on a provisional basis. The provisionally-admitted student is eligible for regular admission after receiving a 3.00 GPA on the first 9 hours of graduate courses taken at Mississippi State University. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. 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; a student admitted with provisional status should contact the graduate coordinator for the program’s specific requirements. While in the provisional status, a student is not eligible to hold a graduate assistantship.

**Academic Amnesty**

Academic amnesty is designed to provide those graduate students previously enrolled at Mississippi State University the opportunity to have up to 9 hours of previously completed graduate courses eliminated from the computation of his or her grade point average upon successful readmission.

To be eligible for the program, an individual cannot have been enrolled as a graduate student at MSU for at least five years. Approval of academic amnesty may be requested of the Dean of the Graduate School through the student’s academic dean’s office after either provisional admission to a graduate program or provisional readmission to their former program has been granted. Upon successful completion of at least 12 credit hours with a 3.00 or higher GPA, provisional admission is removed and the student can then request Academic Amnesty until the end of the semester preceding that in which the student graduates.

With notification from the Dean of the Graduate School, the Registrar’s Office will segment the student’s academic record showing all courses and grades to be included in academic amnesty and recalculate the graduate GPA accordingly. Academic amnesty will be applied to the student’s record only once, and the new grade point average will be noted on the transcript at the end of the semester during which the request was approved.

The student is permitted to retake a course that was included as part of the 9 hours of coursework eliminated under the academic amnesty. All courses and grades will remain a part of the student’s academic record. A notation will appear on the transcript indicating the student was approved for academic amnesty. Those courses approved for academic amnesty and then granted cannot be revalidated or applied toward the completion of another graduate degree.

The academic amnesty policy is applicable only upon the in-residency completion of current curriculum requirements to earn a degree. Students must be advised that the academic amnesty provision pertains only to MSU and may not be honored by other institutions of higher learning. [AOP 20.18]

http://www.msstate.edu/dept/audit/PDF/1218.pdf

**Academic Performance**

Continuous enrollment in the University or in a specific graduate program is dependent on satisfactory academic performance and progress toward the completion of a specific degree program. A student’s progress is considered satisfactory unless determined to be unsatisfactory by the department.
Grades

A candidate for a degree must average B or higher on all courses attempted for graduate credit after admission to a degree program; this includes courses on the program of study as well as non-program courses. A student cannot graduate with a grade of less than C on the program of study. Graduate students are not permitted to enroll for courses carrying pass/fail credit.

Incomplete Grades/Change of Grades

An instructor may submit a grade of I (Incomplete) when circumstances result in a student’s inability to complete the course requirements or to take final examinations. Graduate students who receive a grade of I must complete all remaining coursework no later than the last regular class day of the next semester (excluding summer) whether or not the student is enrolled. Failure to remove an I grade during the specified time will result in the automatic grade of F. Once this has occurred, no additional grade change is allowed except under extreme circumstance(s) as approved by the Provost (per Graduate Council, October 2004). I grades cannot be assigned for thesis/dissertation credits. A student cannot graduate with grade(s) of I on his/her transcript.

Academic Probation

After review by the graduate coordinator and in conjunction with the college dean, a student who has received a grade of C or lower or U (see Academic Performance) may be placed on probationary status in the next regular (fall or spring) semester following the unsatisfactory academic performance semester. Specific information relative to retaking of courses or completing remedial work will be established by the appropriate academic advisor, student’s graduate committee, and graduate coordinator and documented in written form. If the student intends to pursue the academic appeals process, he or she must do so during this probationary semester (per Graduate Council, September 2005).

NOTE: A student cannot take a preliminary/comprehensive examination or defend/submit a thesis or dissertation during the probationary period. If at the end of the probationary semester, the student has not met the requirements outlined by the appropriate academic advisor, she or he may be dismissed.

Academic Dismissal

If a student fails to maintain satisfactory performance, the graduate coordinator may recommend that the student be academically dismissed from the University. (See Academic Performance and Unsatisfactory Performance in this section.) The dismissal process begins with a letter from the graduate coordinator, approved by the college dean, to the Dean of the Graduate School to request that a student be officially dismissed from a graduate program. The reason for the dismissal must be stated. Upon a review of the dismissal request, an official academic dismissal letter from the Dean of the Graduate School is sent to the student via certified mail through the U.S. Postal Service. The dismissal letter informs the student that any existing schedule of classes will be dropped and supplies detailed information regarding the appeals process (see Appeal of Academic Status that follows). The Office of the Graduate School will place an academic dismissal hold on the student’s record to prevent further enrollment.

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 submit 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 written 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 receive a written recommendation and consult with an appointed subcommittee, if necessary, of the Graduate Council. The dean will then render a written notification of a decision. If this appeal is unsuccessful, the student may then appeal to the Provost and will receive a written notification of a decision.

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

Discrimination and Harassment

The Office of Diversity and Equity Programs is located at 106 McArthur Hall. Graduate students who believe that they have been discriminated against or harassed (uninvited or unwelcome verbal or physical contact) based on race, color, national origin, sex, religion, age, disability, genetic information, and veteran status, or sexual orientation and group affiliation should contact that office. The Website is http://www.msstate.edu/president/odep/home.html and the telephone number is 662-325-2493.

Grade Appeals

Graduate students who have grade appeals should refer to the MSU Grade Appeals Policy, Academic Operating Policy and Procedure (AOP) 13.14 http://www.msstate.edu/dept/audit/1314.html and appeal to the Academic Review Board.

Employment Issues

Graduate students who are employees of Mississippi State University and have issues related to employment should consult with Human Resources Management at 150 McArthur Hall, 662-325-3717 or http://www.hrm.msstate.edu/.

Other Complaints

Graduate students who are unsure of the course of action for their complaints should contact the Dean of Students at 112 Lee Hall, 662-325-3611 or http://www.students.msstate.edu.

The Dean of Students can assist the graduate student in determining the course of action for the complaint and whether the grievance should be referred to the Dean of the Graduate School or some other office within the University. The graduate student and the Dean of Students may at that point refer to the following as a method of resolution of a grievance that is not otherwise provided a remedy by University Policy or Academic Operating Policy and Procedure (AOP) within the University.

Grievance Procedures

Two principles must be followed during the grievance procedure.

* Preponderance of Evidence: If a graduate student believes that a faculty member or other person has acted inappropriately, then that graduate student must gather evidence, which may be in the form of emails, letters, or other forms of written documentation.

* Without Retaliation: At no time during the process should a faculty member or other person take action that could be considered retaliation against the graduate student who has submitted the grievance.

Procedure is defined as the process of resolution in which the graduate students contacts the faculty member or administrator who has committed the grievance and, if needed, additional personnel up to the level of the graduate student’s college dean to resolve the situation.

Step 1. Contact the faculty member or administrator with whom the graduate student has the grievance. It is strongly recommended that the student send an email or make contact in writing. In an informal meeting, the student should explain his or her position and ask the faculty member or administrator to cease engaging in the behavior(s) in question.

Step 2. If the behavior of the faculty member or administrator persists, then the graduate student should notify the department head of the faculty member or the immediate supervisor of the administrator. The graduate student will provide the administrator with a copy of the email or written correspondence noting the date of the request to desist and ask the department head or supervisor to arbitrate the matter. This person will notify the graduate student after he/she speaks with the faculty member or administrator within five working days.

Step 3. If the behavior of the faculty member or administrator continues after the intervention by the department head or supervisor of the administrator, or the graduate student is not satisfied with the response from the department head or supervisor, the student will contact the Dean of the College. If the student is not satisfied at this point, he/she may ask for intervention by the Graduate School.

Formal investigation is defined as the process of investigation wherein the Dean of the Graduate School convenes a review committee to investigate and recommend a resolution to the Provost, who will pronounce the final decision. A formal investigation is convened when the graduate student submits a written complaint. The Graduate School will promptly (within ten working days) designate a committee to investigate the complaint.

Responsibilities of the Investigating Committee: The person designated to chair the investigating committee will inform the graduate student:

1. The manner and frequency with which the graduate student will be updated about the status of the investigation.

2. The need for a high level of discretion during the investigatory process.

3. Insure that there is no retaliation against the graduate student.

Normally within five working days of receipt of the assignment, the Investigating Committee will advise of and provide the faculty member or administrator who is alleged to have committed the violation with:
1. The specific allegations and a copy of the written complaint.
2. The manner and frequency in which the faculty member or administration will be updated about the status of the investigation.
3. The need for all parties to exercise a high level of discretion during the investigatory process and the University's policy with respect to retaliation.
4. An opportunity to submit a written response to the complaint within five working days of notification of the complaint.

**Investigation:**

1. The purpose of the investigation is to gather facts.
2. Depending upon the facts of the case, an investigation may range from a one-on-one conversation between the investigating committee and the two parties to an inquiry with multiple witness interviews. The investigating committee will produce a written finding of facts at the conclusion of the investigation.
3. The investigation committee decision shall be made on the “preponderance of evidence” standard. Any finding against an individual or department on the subject of grievance must be supported by a preponderance of the evidence.
4. Investigations should normally be completed with five working days from the date the complaint was first asserted. If this is not reasonably possible, the investigation committee should make the grievant and the faculty member or administrator who is alleged to have committed the violation aware of the status of the review and provide an estimated conclusion date.

**Submission of Investigative Report:** Upon completion of the investigation, the investigation official shall submit the report to the Dean of the Graduate School. Upon receipt of the investigative report, the Dean of the Graduate School shall review the report and submit an initial determination to the Provost that states that a violation did or did not occur. If an initial determination is that a violation did occur, then the dean shall also submit an initial proposal to the Provost stating what “prompt remedial action” the Dean considers appropriate, including potential disciplinary action. The Provost will make the final determination as to what actions, if any, be taken.

**Notification of Decision and Appeal Process:** Upon conclusion of the determination process, the complainant and respondent will receive a written copy of the Provost’s decision. The faculty member/administrator who is alleged to have committed the violation may appeal the decision in writing within five working days to the Provost. The appeal must be based on (a) new facts not previously available, (b) the sanction is arbitrarily harsh or capricious, and/or (c) procedures were not followed that substantially affected the result. The Provost will render a final decision within five working days. This decision completes the University process.

**Please Note: General Advice to Graduate Students in Pursing Grievance Procedure—Students are recommended to use their discretion in following these suggestions:**

1. The University provides counseling services which are a resource for all MSU students when they have experienced stressful or difficulty situations. Graduate students may wish to seek counseling services provided by Student Counseling Services at 115C Hathorn Hall on Magruder Street. Student Counseling Services can be reached at 62-325-2091. Counseling services are provided without charge to registered MSU students, and communication with counselors is strictly confidential.
2. In the case of international graduate students, the student is strongly advised to keep the Primary Designated School Official (PDSO) and/or Responsible Office (RO) updated about the grievance.
3. Maintain a diary of events to ensure a chronological record is readily available and so that the student does not forget the sequence of events surrounding the grievance.
4. If possible, change the major advisor if the current major advisor is the person against whom the grievance was lodged.
5. Keep copies of written communications that are involved in the grievance and any further communication from the faculty member or administrator against whom the grievance was lodged.

**GRADUATION**

**Degree Completion**

To fulfill degree completion requirements, the student must have completed all University and degree program requirements as listed in the *Graduate Bulletin* under which he/she was admitted to the program. A candidate for a degree must average B or higher in all courses attempted for graduate credit after admission to a degree program; this includes courses on the program of study as well as non-program courses. A student cannot graduate with a grade of less than C on the program of study. Individual programs may have additional requirements beyond those of the University. Additionally, a student cannot graduate with an I (incomplete) grade, even if the course is not on the program of study. Graduate students are not permitted to enroll for courses awarding pass/fail credit. A student has the right to appeal any grade or change in his or her academic status. (See Appeal of Grades and Appeal of Academic Status in this publication.)
Commencement
A candidate for a degree must apply online by the final date set by the Registrar for the semester he/she intends to graduate and pay the required fee. The Graduate Academic Calendar in this publication provides deadlines and fees. These deadlines are also found online on the Office of the Graduate School website and on the MSU Academic Calendar. Cap and gown rental is arranged through the MSU Barnes & Noble Bookstore. A candidate for a degree should be present at commencement for the official conferring of the degree.

MASTER’S DEGREE REQUIREMENTS
Mississippi State University offers Master of Arts (M.A.) and Master of Science (M.S.) programs in academic departments throughout the nine colleges. A number of specialized master’s degrees are also available. Refer to pages 15-16 of this publication for a complete list. Consult the Office of the Graduate School section and the specific master’s program description for complete and detailed information regarding both admissions and degree completion requirements.

TIME LIMIT
Eight years is the time limit for completion of master’s degree requirements (per Graduate Council, March 2010). An extension of time form, available on the Office of the Graduate School 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 the Graduate School (per Graduate Council, May 2005).

GRADUATE COMMITTEE
Committee Composition
In most cases, the student’s graduate program is directed by a graduate committee composed of a major professor and at least two committee members, one of whom may be a minor professor. The graduate committee is chaired by the major professor who must hold Level 1 or 2 Graduate Faculty status and must be from the student’s major department or disciplinary program. At least one-half of the remaining committee members must be from the student’s major field and must hold Level 1, Level 2, Associate, or Committee Participant status. No more than one individual holding a Committee Participant appointment can serve. Any member of the committee can serve as the thesis director. The committee request form is submitted to the Office of the Graduate School the semester during which a student applies for graduation.

Students in 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).

Membership Changes
When the member composition of a student’s graduate committee needs to be changed, the student submits a change of membership form (http://www.grad.msstate.edu/forms/#degree) to the Office of the Graduate School reporting the changes. The form requires the signatures of the new and departing committee members as well as the student. If, subsequent to the administration of the final or oral/written comprehensive examination, a student’s request to remove a member of the graduate committee is not met with the approval (signature) of that member, then the student must submit to the Dean of the Graduate School a written request for removal of the committee member. This request must contain suitable justification for such action. The Dean of the Graduate School will then decide if removal is necessary and accordingly inform the student, the committee member, the major professor, and the graduate coordinator.

PROGRAM OF STUDY
Requirements
The student must complete with his/her graduate committee a program of study form consisting of all courses required for degree completion according to the University-approved requirements and to the program requirements in the Bulletin of the Graduate School for the academic year the student is admitted and begins the program. The student and the committee must also identify research skill requirements and/or other requirements for degree completion. The form is submitted to the Office of the Graduate School by the semester the student applies for graduation.

A minimum of 30 semester hours of graduate study is required in all master’s degree programs.

* In the thesis option, the program of study must contain at least 24 hours of graduate coursework and 6 hours of research/thesis. One-half of the coursework must be at the 8000 level or higher. No audited course or undergraduate course can be included on a graduate program of study.

* In the non-thesis option, the program of study consists of a minimum of 30 hours of coursework. At least 15 hours are at the 8000 level or higher (per Graduate Council, April 2004).

* A maximum of 6 Directed Individual Study (DIS) hours may be included on a program of study. DIS
courses, numbered 7000, may be used to meet the 8000-level course requirement.

Program of Study Changes
If a student’s program of study submitted to the Graduate School subsequently changes, the student must submit a change of program form (http://www.grad.msstate.edu/forms/#degree) approved by his/her committee to report the additions and deletions.

Minor
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 a minor area to satisfy the remaining credit hours. If a minor is taken, at least 9 hours of current graduate coursework in a program or approved concentration from a department other than that of the major 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). A minor may be obtained only in an established area of graduate study. Up to one-third of the required hours for a minor may be transferred to MSU. The hours must be current (no more than eight years old) at the time the degree is awarded (per Graduate Council, September 2005). See Transfer Credit.

Transfer Credit
Transfer credit hours from other domestic universities, international universities or military educational programs may be used to fulfill requirements for master’s degrees at MSU provided they meet the criteria established in the General Requirements of the Graduate School. At the master’s level, transfer credit can constitute up to 9 semester hours of coursework except for programs requiring more than 40 hours, in which case transfer credits may constitute up to 30 percent of the total credit hours. All thesis research credit hours in the thesis option must be taken at MSU. Up to one-third of the required hours toward fulfillment of a minor (9 hours at the master’s level) may be transferred to MSU. Only courses in which grades of B or higher were earned are accepted for transfer. Transfer credit can be accepted for those courses that are relevant in content at completion of the degree and fall within the eight-year time limit for the current program (per Graduate Council September 2005 and March 2010).

COMPREHENSIVE EXAMINATION
A final comprehensive examination is required of all degree candidates, except those in programs that do not vary 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. (See the THESIS section for information concerning the thesis defense).
* Non-thesis degree candidates are required to 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 demonstrate: 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 coursework after being admitted to the program (i.e., program and non-program courses), and must be within the last six hours or in the terminal semester (per Graduate Council, May 2006) of coursework excluding internship/practicum courses (per Graduate Council, September 2004).
* One negative vote will not constitute failure for a student on a preliminary/comprehensive examination. Two negative votes will constitute failure for a student on a preliminary/comprehensive examination (per Graduate Council, October 2005).
* Following the examination, the major professor must promptly submit the completed examination results form to the Office of the Graduate School.
* A student who fails the comprehensive exam can apply to schedule another examination after a period of four months has elapsed from the date of the original exam. Two failures result in the student’s removal as a master’s degree candidate.

THESIS DEFENSE
A student pursuing a thesis-option (Option One) Master of Arts or Master of Science degree is required to present a thesis. Thesis research is subject to review and approval by the University’s Institutional Review Board (IRB).

A grade of S for satisfactory or U for unsatisfactory is given for thesis credit. A student may not graduate with a U grade in the final semester.

Six hours of research credit are awarded upon the successful completion of the thesis and its submission to the Library, regardless of the number of thesis/research hours the student successfully completed. The manual entitled Standards for

The student’s graduate committee will evaluate content and style of the completed thesis. The student will conduct an oral defense of the thesis before the committee. The student must be enrolled at MSU in the semester he/she defends the thesis.

The student or a committee member may request that the Office of the Graduate School appoint an outside observer to attend the thesis defense. To allow time for careful and thoughtful evaluation and discussion, the examination for the oral thesis defense should be scheduled no sooner than seven days after the final manuscript has been distributed to all committee members.

One negative vote will not constitute failure for a student on an oral thesis defense. Two negative votes will constitute failure for a student on an oral thesis defense (per Graduate Council, October 2005).

A student who fails to defend the thesis successfully can apply to schedule another defense after a period of four months has elapsed from the date of the original defense.

Two failures result in the student’s dismissal as a master’s degree candidate.

Following the defense, the student’s committee must complete the examination results report (the original and one copy) and submit the form to the Office of the Graduate School.

**THESIS SUBMISSION**

The student must meet the Library initial and final submission deadlines. The dates are posted in the Academic Calendar in this publication and on the Office of the Graduate School and Library websites.

The student must be enrolled in at least one credit hour at MSU in the semester(s) of both the initial and final submissions to the Library.

The student submits the thesis electronically to the Library. Submission must be in Portable Document Format (PDF) and uploaded to the Library’s electronic theses and dissertations (ETD) database.

The committee signature page complete with required signatures must be submitted in print to the Library before the thesis will be reviewed. For security reasons, signatures should not be scanned for the PDF document; this page will remain absent of signatures for the electronic version. The Library will retain a copy of the signature page with the original signatures for archival purposes.

The University has an agreement with ProQuest Information and Learning Company (ProQuest) for the microfilming of all theses. Under this agreement, two microfilm copies of the complete thesis will be made and, if desired, the document will be copyrighted with the copyright in the name of the author. The microfilm will be published in the ProQuest Dissertations and Theses (PQDT) electronic database and the full document made available to subscribing institutions. There is no longer a fee for publishing theses. The fee for copyrighting is $55.00; one may also ask ProQuest to publish the document with open access for $95.00. As an alternative to copyrighting through ProQuest, copyright can be achieved by submitting to http://www.copyright.gov for a $35 fee.

**OTHER Candidacy**

A master’s student applies for admission to candidacy when he/she applies for the degree. The student must apply for graduation by the deadline listed in the Graduate Academic Calendar in this publication and must have completed all conditions attached to his/her admission and fulfilled all requirements of the degree program and the Graduate School.

**Distance Student Certification of Off-Campus/Non-MSU Research Facility**

Students enrolled in a master’s program that is offered via distance learning and requires a thesis must meet established research requirements as stated in the Mississippi State University Bulletin of the Graduate School. Distance education students engaged in research will be provided the same student support services given to on-campus students, including access to Library resources, thesis workshops, etc.

MSU believes that special attention must be directed toward the mentoring of the students and the development of a creative and supportive environment for research hours offered via distance. Each academic unit which administers a distance graduate degree program with a thesis will determine and define the appropriate use of communication and technology. A student’s thesis committee must approve the procedures the student must follow to ensure quality and integrity of the research process at the proposal, data collection/analysis, and final defense stages. Should the student request, or be required, to conduct research at an off-site research
facility, appropriate certification must be completed prior to beginning the research process. The form is required of all distance students submitting a thesis and must be submitted to the student’s committee to document the research facility involved (if applicable), describe the software utilized, and provide a thorough description of the proposed research.

Any department that offers such a distance program must include specific language that addresses delivery of research/thesis hours via distance learning in a published format (policy handbooks for approved distance programs, website, etc.) (per Graduate Council, April 2007).

**Foreign Language Requirement**

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. The Department of Classical and Modern Languages and Literature offers courses for graduate students who seek to fulfill this requirement. Contact that department for more information.

**Residency Requirement**

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

**EDUCATIONAL SPECIALIST DEGREE REQUIREMENTS**

The educational specialist degree, offered in the College of Education, is comprised of a planned program of at least 30 semester hours above the master’s degree under the direction of a major advisor. Students enrolled in the educational specialist degree programs should refer to the program section of this publication and to the College of Education Graduate Handbook for specific rules and regulations. Students should also refer to departmental websites.

**TIME LIMIT**

A student must complete the educational specialist program within eight years (per Graduate Council, April 2010). 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 Graduate School website, can be used to request a one-time, one-year extension if needed under well justified, extenuating circumstances. The approved request must be submitted to the Office of the Graduate School (per Graduate Council, May 2005).

**PROGRAM OF STUDY**

The program of study form must be submitted to the Office of the Graduate School the semester in which the student applies for graduation.

**Major**

The educational specialist degree is available with a major in Education. Concentrations are available in:

- Counselor Education
- Education-Technology
- Elementary Education
- Secondary Education
- School Administration
- School Psychology
- Special Education

No audited course, undergraduate course, or course used in a previous degree program can be included on the Ed.S. program of study. If a course taken in a previous program fulfills requirements for the educational specialist degree, the course(s) should be listed on the program of study attachment form (http://www.grad.msstate.edu/forms/pdf_forms/grad_prog_of_study_attach_ed.pdf). The program of study will list no fewer than 30 credit hours.

**Program of Study Changes**

If a program of study submitted to the Graduate School must be changed, the student must submit a change of program form to request committee approval for additions and deletions (http://www.grad.msstate.edu/forms/#degree).

**Minor**

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 9 hours of current graduate coursework in a program or approved concentration from a department other than that of the major 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). A minor may be obtained only in an established area of graduate study. Up to one-third of the required hours for a minor may be transferred to MSU. The hours must be current (no more than eight years old) at the time the degree is awarded (per Graduate Council, September 2005). See Transfer Credit.

**Transfer Credit**

Transfer credit hours from other domestic universities, international universities, or military educational programs may be used to fulfill requirements for the educational specialist degree at
constitute failure for a student who takes a preliminary/comprehensive examination in the office of the major advisor. To qualify to take the examination, the student must
* be enrolled at MSU during the semester in which the exam is administered
* have a 3.00 GPA in all courses taken after being admitted to the program (i.e., program and non-program courses),
* take the comprehensive examination (non-thesis option) or thesis defense (thesis option) during the terminal semester or within 6 hours of completion of the program of study, excluding practica and internships (per Graduate Council, May 2006).

One negative vote will not constitute failure for a student who takes a preliminary/comprehensive examination. Two negative votes will constitute failure for a student who takes a preliminary/comprehensive examination (per Graduate Council, October 2005).

A student who fails the comprehensive exam can apply to schedule a date for another examination after a period of four months has elapsed from the date of the original exam. Two failures result in the student’s being dropped as an educational specialist degree candidate.

Following the examination, the student’s committee must submit the completed examination results report (the original and one copy) and submit the form to the Office of the Graduate School.

**THESIS DEFENSE**

A student in an educational specialist program may submit a thesis as part of the program of study. Thesis research is subject to review and approval by the University’s Institutional Review Board (IRB).

A grade of S for satisfactory or U for unsatisfactory is given for thesis credit. A student may not graduate with a U grade in the final semester. Six credit hours are awarded for the successful completion and submission of the thesis to the Library, regardless of the number of thesis/research credit hours the student successfully completed. The manual entitled *Standards for Preparing Theses and Dissertations* (5th edition, revised 2007) describes the regulations governing thesis preparation and must be followed.
The student should access the Standards and also review the Office of Thesis and Dissertation Format Review information found at the http://library.msstate.edu/thesis/index.asp.

The student’s graduate committee will judge content and style of the completed thesis. The student will orally defend the thesis before the committee. The student must be enrolled at MSU during the semester when the thesis is defended.

The student or a committee member may request that the Graduate School 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.

One negative vote will not constitute failure for a student on thesis defense. Two negative votes will constitute failure for a student on the thesis defense (per Graduate Council, October 2005).

A student who fails to defend the thesis successfully can apply to schedule a date for another defense after a period of four months has elapsed from the date of the original defense. Two failures result in the student’s removal as an educational specialist degree candidate.

Following the defense, the student’s committee must complete the examination results report (the original and one copy) and submit the form to the Office of the Graduate School.

**THESIS SUBMISSION**

The student must meet the Library initial and final thesis submission deadlines. The dates are posted in the Graduate Academic Calendar in this publication and on the Office of the Graduate School and Library websites.

The student must be enrolled at MSU during the semester(s) when both the initial and final thesis submissions to the Library are made.

The thesis must be submitted electronically to the Library. Thesis submission must be in Portable Document Format (PDF) and uploaded to the Library’s electronic theses and dissertations (ETD) database.

The committee signature page with all required signatures must be submitted in print to the Library before the thesis will be reviewed. For security reasons, signatures should not be scanned for the PDF document; for the electronic version this page will remain absent of signatures. The Library will retain a copy of the signature page with the original signatures for archival purposes.

The University has an agreement with ProQuest Information and Learning Company (ProQuest) for the microfilming of all theses. Under this agreement, two microfilm copies of the complete thesis will be made and, if desired, the document will be copyrighted with the copyright in the name of the author. The microfilm will be made available for purchase through ProQuest. The citation and abstract will be published in the ProQuest Dissertations & Theses (PQDT) electronic database and the full document made available to subscribing institutions. There is no longer a fee for publishing theses. The fee for copyrighting is $55.00; one may also ask ProQuest to publish the document with open access for $95.00. As an alternative to ProQuest, copyrighting can be obtained by submitting to http://www.copyright.gov for a $35 fee.

**OTHER**

**Distance Student Certification of Off-Campus/Non-MSU Research Facility**

Students enrolled in an educational specialist degree program that is offered via distance learning and requires a thesis must meet established research requirements as stated in the Mississippi State University Graduate School Bulletin. Distance education students engaged in research will be provided the same student support services given to on-campus students, including access to Library resources, thesis workshops, etc.

MSU believes that special attention must be directed toward the mentoring of the students and the development of a creative and supportive environment for research hours offered via distance. Each academic unit which administers a distance graduate degree program with a thesis will determine and define the appropriate use of communication and technology. A student’s thesis committee must approve the procedures which the student must follow to ensure quality and integrity of the research process at the proposal, data collection/analysis, and final defense stages. Should the student request, or be required, to conduct research at an off-site research facility, appropriate certification must be completed prior to beginning the research process. The form is required of all distance students submitting a thesis and must be submitted to the student’s committee to document the research facility involved (if applicable), describe the software utilized, and provide a thorough description of the proposed research.
Any department that offers such a distance program must include specific language that addresses delivery of research/thesis hours via distance learning in a published format (policy handbooks for approved distance programs, website, etc.) (per Graduate Council, April 2007).

**Residency Requirement**
The residency requirement for the educational specialist degree is a minimum of 30 weeks. No student is permitted to complete the educational specialist degree in two summer sessions or equivalent. The residency credit is computed as follows:

- **a.** During a regular semester, a student taking 9 hours or more earns half of the required residency credit or 15 weeks.
- **b.** During each term of the regular summer school, a student taking 4 or more hours earns 6 weeks residency.
- **c.** A part-time student earns residency in weeks equivalent to the semester hours scheduled.
- **d.** Night classes, Saturday classes, and 3-week short-term courses carry residence credit equivalent to the number of semester hours earned.

**DOCTOR OF PHILOSOPHY DEGREE REQUIREMENTS**
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 is advised to refer to the program section of this publication and the *College of Education Doctoral Student Guide* for specific rules and regulations. Additionally, the student should review information provided through the departmental website.

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

**TIME LIMIT**
A Ph.D. student must complete the degree program within five years after passing the preliminary/comprehensive examination (per Graduate Council, March 2010). An extension of time form, available on the Graduate School website, may 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 the Graduate School (per Graduate Council, May 2005).

**GRADUATE COMMITTEE**

**Committee Composition**
The student’s graduate program is directed by a graduate committee composed of the major professor who is chair of the committee. The chair must hold Level 1 Graduate Faculty status and must be from the student’s major department or disciplinary program.

A student without a minor must have a committee composed at least four members, including the chair and at least three members.

If the student has a minor, the committee must be composed of at least five members: the chair, the minor professor, and at least three other members.

All committee members must hold Level 1, Level 2, Associate, or Committee Participant appointments. At least one-half of all committee members must be from the student’s major field. No more than two individuals holding Committee Participant appointments can serve on a dissertation or doctoral committee. Any member of the committee may be the dissertation director.

The committee request form is submitted to the Office of the Graduate School with the program of study when the preliminary/comprehensive examination is scheduled.

**Membership Changes**
When the member composition of a student’s graduate committee needs to be changed, the student submits the change(s) on the proper form (http://www.grad.msstate.edu/forms/#degree). The form requires signatures of the new and departing committee members and the student. If, subsequent to the administration of the final or oral/written comprehensive examination, a student’s request to remove a member of the graduate committee is not met with the approval (signature) of that member, then the student must submit to the Dean of the Graduate School a written request for removal of the committee member. This request must contain suitable justification for such action. The Dean of the Graduate School will then decide if removal is necessary and accordingly inform the student, the committee member, the major professor, and the graduate coordinator.
PROGRAM OF STUDY

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.

Program of Study Form
Coursework on the student’s program of study must be approved by the student’s committee as current in the discipline at the time the degree is awarded. A program of study form must be submitted to the Office of the Graduate School when the preliminary/comprehensive examination is scheduled.

No audited course, undergraduate course, or course used in a previous degree program can be included on the Ph.D. program of study. If a course from a previous program fulfills a requirement for the Ph.D. philosophy degree, this course(s) should be listed on the attachment to program of study form (http://www.grad.msstate.edu/forms/pdf_forms/grad_prog_of_study_attach_doc.pdf).

Program of Study Changes
If a program of study submitted to the Graduate School subsequently changes, the student must submit a change of program form to effect additions and deletions. The form is accessed at http://www.grad.msstate.edu/forms/#degree.

Minor
In establishing the candidate’s program of study in his/her major, the student, with committee approval, may specify a minor area of study. A minor in a doctoral program requires
* at least 12 hours of current graduate coursework in a program or approved concentration other than the major program
* approval of the student’s major professor; approval of the graduate coordinator from the minor area;
* a member from the minor area on the student’s graduate committee;
* completion of any additional requirements as specified by committee members from the major and minor areas (per Graduate Council, March 2005).

Up to one-third of the 12 required hours for a doctoral minor may be transferred to MSU. The hours must be academically relevant at the time the degree is awarded and fall within the time-limit requirements for coursework (per Graduate Council, September 2005 and March 2010). See Transfer Credit.

Transfer Credit
Transfer credit hours from other domestic universities, international universities, or military educational programs may be used to fulfill requirements for the doctor of philosophy degree at MSU provided they meet the criteria established in the by the Graduate School, meet program requirements, and are academically relevant to the current program at the completion of the degree. At the doctoral level, transfer credit may constitute up to one-half of the coursework requirement. All dissertation credit hours must be taken at MSU. Up to one-third of the required 12 hours for a doctoral minor may be transferred to MSU. Only courses in which grades of B or higher were earned may be accepted for transfer. No credits can be transferred after successful completion of the Preliminary/Comprehensive Examination (per Graduate Council, September 2005 and March 2010).

EXAMINATIONS

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 MSU during the semester when 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 Student Handbook and the departmental graduate handbook for specific programmatic research requirements.

Preliminary/Comprehensive Examination
A Ph.D. student may take the preliminary/comprehensive examination only after completing the coursework or being within 6 hours of completing all coursework, excluding any internship/practica courses. The student must have a minimum 3.00 GPA on all courses attempted for graduate credit after admission to the degree program (i.e., program and non-program courses) (per Graduate Council, September 2004). The student’s program of study and committee request form are submitted to the Office of the Graduate School when the examination is scheduled. The student must take the examination
*by June 1 for December graduation;
*by November 1 for May graduation;
*by February 1 for August graduation.

A graduate student must be enrolled at MSU during the semester when the preliminary/comprehensive examination(s) is administered.
The student’s graduate committee serves as the examining committee. The student or a committee member may request that the Graduate School appoint an outside observer to attend the comprehensive/preliminary examination.

One negative vote will not constitute failure for a student on a preliminary/comprehensive examination. Two negative votes will constitute failure for a student on a preliminary/comprehensive examination (per Graduate Council, October 2005).

A student who fails this examination can apply to schedule a date for another examination after a period of four months has 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.

Following the examination, the student’s committee must complete the examination results report and submit the original and one copy to the Office of the Graduate School.

ADMISSION TO CANDIDACY
A doctoral student is admitted to candidacy when she/he has:
- satisfactorily completed all required coursework and the final program of study is approved and accepted in the Office of the Graduate School
- completed any required research skills requirement(s) prior to taking the preliminary/comprehensive examination
- passed the preliminary/comprehensive examination
- had a dissertation topic approved by the graduate committee.

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

DISSERTATION DEFENSE
A graduate student must be enrolled at MSU during the semester of a dissertation defense, initial dissertation submission to the Library, and final dissertation submission to the Library.

The dissertation is required of all candidates for the Ph.D., and the student must register for at least 20 credit hours of dissertation/research (some programs require more than 20). Twenty hours of credit are awarded the student upon the successful submission of the final dissertation regardless of the number of hours the student successfully completed, except in the programs that require a minimum greater than 20. The dissertation must show a) mastery of the techniques of research and b) a distinct contribution to the field under investigation and study.

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

The student’s graduate committee must approve the dissertation topic, the outline, and the final submission of the dissertation. The manual entitled Standards for Preparing Theses and Dissertations (5th edition, 2007) describes the regulations governing dissertation preparation and must be followed. The student should access the manual and review all information on the website of the Office of Thesis and Dissertation Format Review at http://library.msstate.edu/thesis/index.asp.

To qualify for graduation in a particular semester, the final defense must occur by the deadline found in the Graduate Calendar in this publication. The student must be enrolled at MSU during the semester when the defense takes place. The announcement of the examination must be filed in the Office of the Graduate School at least two weeks prior to the scheduled date. The student will conduct an oral defense of the dissertation before his/her committee. To allow careful and thoughtful evaluation and time for clarification and discussion, the dissertation must be given to the committee no fewer than seven days prior to the defense.

One negative vote will not constitute failure for a student on a dissertation defense. Two negative votes will constitute failure for a student on a dissertation defense (per Graduate Council, October 2005).

A student who fails to defend his/her dissertation successfully can apply to schedule another date after a period of four months has elapsed from the date of the original defense. Two failures to defend the dissertation will result in the student’s removal from candidacy.

Following the defense, the student’s committee must complete and submit the report of examination results form (the original and one copy) to the Office of the Graduate School by the deadline found in the Graduate Calendar in this publication.

DISSERTATION SUBMISSION
Following the successful defense, the student electronically submits the dissertation to the Library and must meet the initial and final submission deadlines. The student must be enrolled at MSU in the semester(s) when both the initial and the final submissions occur.
Dissertation submission must be in Portable Document Format (PDF) and uploaded to the Library's electronic theses and dissertations (ETD) database.

The committee signature page, complete with required signatures, must be submitted in print to the Library before the dissertation will be reviewed. For security reasons, signatures should not be scanned for the PDF document; this page will remain absent of signatures for the electronic version. The Library will retain a copy of the signature page with the original signatures for archival purposes.

**Dissertation Publishing**

The University has an agreement with ProQuest Information and Learning Company (ProQuest) for the microfilming of all 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 microfilm will be made available for purchase through ProQuest. The citation and abstract will be published in the ProQuest Dissertations and Theses (PQDT) electronic database and the full document made available to subscribing institutions. There is no longer a fee for publishing dissertations. The fee for copyrighting is $55.00; one may also ask ProQuest to publish the document with open access for $95.00. As an alternative to copyrighting through ProQuest, copyright can be obtained by submitting to [http://www.copyright.gov](http://www.copyright.gov) for a $35 fee.

**OTHER**

**Distance Student Certification of Off-Campus/Non-MSU Research Facility**

Students enrolled in doctoral degree programs that are offered via distance learning must meet established research requirements as stated in the MSU Bulletin of the Graduate School. Distance education students engaged in research will be provided the same student support services given to on-campus students, including access to Library resources, dissertation workshops, etc.

MSU believes that special attention must be directed toward the mentoring of the students and the development of a creative and supportive environment for research hours offered via distance. Each academic unit which administers a distance graduate degree program with a dissertation will determine and define the appropriate use of communication and technology. A student’s dissertation committee must approve the procedures which the student must follow to ensure quality and integrity of the research process at the proposal, data collection/analysis, and final defense stages. Should the student request, or be required, to conduct research at an off-site research facility, appropriate certification must be completed prior to beginning the research process. The form is required of all distance students submitting a dissertation and must be submitted to the student’s committee to document the research facility involved (if applicable), describe the software utilized, and provide a thorough description of the proposed research.

Any department that offers such a distance program must include specific language that addresses delivery of research/dissertation hours via distance learning in a published format (policy handbooks for approved distance programs, website, etc.) (per Graduate Council, April 2007).

**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.

**Residency Requirement**

There is no specific on-campus residency requirement. However, Ph.D. students will be required to complete one-half of required coursework and all dissertation credits from Mississippi State University. Departments, schools, and colleges can set degree-specific residency requirements (per Graduate Council, October 2005).

**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.

**DOCTOR OF EDUCATION DEGREE REQUIREMENTS**

The Doctor of Education (Ed.D.) degree is offered with a major in education and a concentration in elementary education, secondary education, and technology. A student enrolled in a doctoral program in the College of Education is advised to refer to should refer to this publication and the College of Education Doctoral Student Handbook for specific rules and regulations. Additionally, the student should review information provided through the departmental web pages.
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.

TIME LIMIT
A student in an Ed.D. doctoral program must complete the program within a period of five years after passing the preliminary/comprehensive examination (per Graduate Council, March 2010). All coursework included on the program of study must be current at the time of degree completion. An extension of time form, available on the Graduate School 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 the Graduate School (per Graduate Council, May 2005).

GRADUATE COMMITTEE
Committee Composition
The student’s program of study is directed by a graduate committee composed of the major professor who is chair of the committee, must hold Level 1 Graduate Faculty status, and must be from the student’s major department or disciplinary program.

The committee is composed of at least five members: the chair, at least one member from a supporting or minor area, at least one member from a program in education other than the major program, and at least two other members from the area of program emphasis. All committee members must hold Level 1, Level 2, Associate, or Committee Participant appointment to Graduate Faculty.

No more than two individuals with a Committee Participant appointment can serve on a graduate doctoral committee. Any member of the committee may be the dissertation director.

The committee request form and the program of study form are submitted to the Office of the Graduate School when the preliminary/comprehensive examination is scheduled.

Membership Changes
When the member composition of a student’s graduate committee needs to be changed, the student submits the change(s) on the proper form (http://www.grad.msstate.edu/forms/#degree). The form requires signatures of the new and departing committee members and the student. If, subsequent to the administration of the final or oral/written comprehensive examination, a student’s request to remove a member of the graduate committee is not met with the approval (signature) of that member, then the student must submit to the Dean of the Graduate School a written request for removal of the committee member. This request must contain suitable justification for such action. The Dean of the Graduate School will then decide if removal is necessary and accordingly inform the student, the committee member, the major professor, and the graduate coordinator.

PROGRAM OF STUDY
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. Coursework on the program of study must be approved by the student’s committee as current in the discipline at the time the degree is awarded.

No audited course, undergraduate course, or course used in a previous degree program can be included on the Ed.D.. program of study.

Program of Study Changes
If a program of study submitted to the Graduate School subsequently changes, the student must submit a change of program form to effect additions and deletions. The form is accessed at http://www.grad.msstate.edu/forms/#degree.

Transfer Credit
A student may use transfer credit hours from other domestic universities, international universities, or military educational programs may be used to fulfill requirements for the doctor of education degree at MSU provided they meet the Graduate School criteria and are approved by the student’s graduate committee. At the doctoral level, transfer credit may constitute up to one-half of the coursework requirement. All dissertation credit hours must be taken at MSU. Up to one-third of the 12 required hours for a doctoral minor may be transferred to MSU. The student may transfer only courses in which grades of B or higher were earned. Transfer credit can be accepted for courses that are academically relevant to the program at completion of the degree and fall within the time-limit requirements for coursework (per Graduate Council, September 2005 and March 2010).

EXAMINATIONS
Preliminary/Comprehensive Examination
The preliminary/comprehensive examination will be taken within 6 hours of completion of the coursework on a planned program and must be completed...
constitute failure for a student on a preliminary/comprehensive examination. Two negative votes will constitute failure for a student on an oral preliminary/comprehensive examination (per Graduate Council, October 2005).

A student who fails the oral examination can apply to schedule a date to take another oral examination four months from the date of the original oral examination. Two failures on this examination will result in the student’s removal from further consideration as a doctoral candidate. Following the examination, the student’s committee must complete the examination results report and submit the original and one copy to the Office of the Graduate School. The form is accessed on the Graduate School Website.

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 is commonly demonstrated on a written examination. The examination is may be taken after all coursework in the supporting area(s) is completed, or it is taken in conjunction with the written preliminary examination.

ADMISSION TO CANDIDACY
A doctoral student is admitted to candidacy when she/he has:

- satisfactorily completed all required coursework and the final program of study is approved and accepted in the Office of the Graduate School
- completed any required research skills requirement(s) prior to taking the preliminary/comprehensive examination
- passed the preliminary/comprehensive examination
- had a dissertation topic approved by the graduate committee.

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

DISSERTATION DEFENSE
A graduate student must be enrolled at MSU during the semester the dissertation defense occurs.

The dissertation is required of all candidates for the doctorate, and a minimum of 20 semester hours of
research for the dissertation must be scheduled. The student is awarded 20 hours of research/dissertation credit upon successful submission of the dissertation. The dissertation must demonstrate mastery of the techniques of research and be a contribution to the field under investigation. The manual Standards for Preparing Theses and Dissertations (5th edition, 2007) describes the regulations governing dissertation preparation and must be followed. The student should access the manual and review all information on the Office of Thesis and Dissertation Format Review website. The website is accessed at http://library.msstate.edu/thesis/index.asp.

A doctoral student may have a prospectus for the dissertation approved after successfully demonstrating competency in the application of research and statistical techniques. Dissertation research is subject to review and approval by the University’s Institutional Review Board (IRB). The student usually registers 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 MSU during the semester(s) of a dissertation initial and final defense have passed. Two failures will result in the student's removal as a candidate. Following the defense, the student’s committee must complete the examination results form and submit the original and one copy to the Office of the Graduate School by the deadline found in the Graduate Calendar in this publication. The student must be enrolled at MSU during the semester of the defense.

To allow careful and thoughtful evaluation and time for clarification and discussion, the dissertation must be given to the committee no fewer than ten working days prior to the defense. To qualify for graduation in a given semester, the final defense must occur by the deadline found in the Graduate Calendar in this publication. The student must be enrolled at MSU during the semester of the defense.

One negative vote will not constitute failure for a student on a dissertation defense. Two negative votes will constitute failure for a student on an a dissertation defense (per Graduate Council, October 2005).

A student who fails to defend the dissertation successfully can apply to schedule a date to defend again after four months from the date of the original defense have passed. Two failures will result in the student’s removal as a candidate. Following the defense, the student’s committee must complete the examination results form and submit the original and one copy to the Office of the Graduate School by the deadline found in the Graduate Calendar in this publication.

**Dissertation Submission**

A graduate student must be enrolled at MSU during the semester(s) of a dissertation initial and final submission to the Library.

Following the successful defense, the student will electronically submit the dissertation to the Library for examination of adherence to preparation standards. The student must meet the deadlines found on the Graduate School calendar in this publication for initial and final submission to the Library.

The University has an agreement with ProQuest Information and Learning Company (ProQuest) for the microfilming of all dissertations. Under this agreement, two microfilm copies of the complete dissertation will be made and, if desired, the document will be copyrighted with the copyright in the name of the author. The microfilm will be made available for purchase through ProQuest. The citation and abstract will be published in the ProQuest Dissertations and Theses (PQDT) electronic database and the full document made available to subscribing institutions. There is no longer a fee for publishing theses and dissertations. The fee for copyrighting is $55.00; one may also ask ProQuest to publish the document with open access for $95.00. As an alternative to copyrighting through ProQuest, copyright can be obtained by submitting to http://www.copyright.gov/ for a $35 fee.

**Other**

**Distance Student Certification of Off-Campus/Non-MSU Research Facility**

Students enrolled in graduate programs that are offered via distance learning and require a dissertation must meet established research requirements as stated in the MSU Bulletin of the Graduate School. Distance education students engaged in research will be provided the same student support services given to on-campus students, including access to Library resources, dissertation workshops, etc.

MSU believes that special attention must be directed toward the mentoring of the students and the development of a creative and supportive environment for research hours offered via distance. Each academic unit which administers a distance graduate degree program requiring a dissertation will determine and define the appropriate use of communication and technology. A student’s dissertation committee must approve the procedures the student must follow to ensure quality and integrity of the research process at the proposal, data collection/analysis, and final defense stages. Should the student request, or be required, to conduct research at an off-site research facility, appropriate certification must be completed prior to beginning the research process. The form is required of all
distance students submitting a dissertation and must be submitted to the student’s committee to document the research facility involved (if applicable), describe the software utilized, and provide a thorough description of the proposed research.

Any department that offers such a distance program must include specific language that addresses delivery of research/thesis or research/dissertation hours via distance learning in a published format (policy handbooks for approved distance programs, website, etc.) (per Graduate Council, April 2007).

Residency Requirement
There is no on-campus residency requirement. However, doctoral students are required to complete one-half of required coursework and all dissertation credits from MSU. Departments, schools, and colleges can set degree-specific residency requirements (per Graduate Council, October 2005).

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

GRADUATE ASSISTANTSHIPS
Graduate Assistantships are intended to recruit quality students to graduate study at MSU and to enhance the graduate learning experience. An assistantship is a financial award to a graduate student for part-time work in teaching, research, or administration while pursuing an advanced degree.

**TYPES OF ASSISTANTSHIP APPOINTMENTS**
Graduate research, teaching, and service assistantships are available on an annual or nine-month basis. A graduate assistant’s work schedule is a maximum of 20 hours per week. The minimum stipend rate is $600.00 per month.

Graduate Research Assistantship (GRA)—Graduate Research Assistants perform duties in support of University research, which may or may not relate to the students’ thesis/dissertation. Many University academic, research, and administrative offices employ GRAs. This opportunity provides an excellent means for students to learn new techniques and methods as well as expand their knowledge by association with research-oriented responsibilities, whether employed within the student’s academic discipline or in another department. Duties and stipends vary from program to program and are dependent upon the nature of assigned duties.

Graduate Service Assistantship (GSA)—Graduate Service Assistants aid faculty and staff members with administrative functions, and GSA appointments are available in many academic and non-academic units. Duties vary, depending on administrative needs of the unit making the award, and stipends vary according to the nature of assigned duties.

Graduate Teaching Assistantship (GTA)—Graduate Teaching Assistants work under the direct supervision of graduate faculty members and are assigned duties related directly to instruction, such as assisting in the preparation of lectures, leading discussion sections, conducting laboratory exercises, grading papers, and keeping class records. Advanced graduate students who have completed 18 graduate credit hours in his or her teaching discipline may be given primary responsibility for teaching an undergraduate course, including student assessment and assignment of final grades. GTAs may not be assigned primary responsibilities for teaching and student assessment in courses approved for graduate credit.

All graduate students planning to serve as Graduate Teaching Assistants must participate in the Graduate Teaching Assistant Certification Program prior to beginning the first teaching assignment at MSU and satisfy all program/evaluation requirements necessary to obtain the level of certification (GTA1, GTA2, GTA3) corresponding to the duties/responsibilities of the teaching assistantship appointment. Please refer to Graduate Teaching Assistantship Certification in this publication for detailed certification requirements.

APPOINTMENT PROCESS
Minimum University Eligibility Requirements
To be eligible for an assistantship a student must be admitted to a specific degree program with “regular” or “contingent” status. A student with “contingent” status must, within the first award enrollment period, satisfy “regular” admission requirements, and an assistantship award will be terminated if these requirements are not met. “Unclassified” graduate students or graduate students with “provisional” admission status to a degree program are ineligible to hold an assistantship.

If English is not the native language of an international graduate student, the English Language Requirements for International Students apply. These requirements are found in the International Students Admission section of this publication.

Application for Graduate Assistantship
Application for an assistantship must be submitted to the college, department, school, or support unit. The department/unit may provide its own application
form or use the Application for Graduate Assistantship on the Graduate School website (http://www.grad.msstate.edu/forms/pdf/assistantship_app.PDF). The department/unit establishes application deadlines and review procedures.

**Graduate Assistantship Offer/Appointment**

Individual academic and non-academic departments are responsible for making the assistantship award offer, establishing the amount of the stipend and the work schedule, and monitoring the performance of the graduate assistant’s duties and responsibilities.

**Accepting/Declining an Assistantship Offer**

Council of Graduate Schools—Mississippi State University is a member of the Council of Graduate Schools (CGS) and the Conference of Southern Graduate Schools (CSGS). The University subscribes to the CGS Resolution Regarding Graduate Scholars, Fellows, Trainees and Assistants; the resolution and a complete list of participating institutions are available at http://www.cgsnet.org/Default.aspx?tabid=201.

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.”

**GRADUATE ASSISTANTSHIP AWARD BENEFITS**

**Tuition Waiver**

All Graduate Assistants receive a tuition exemption of approximately 71% of the assessed tuition and required fees. Graduate Assistants who are not Mississippi residents receive 100% exemption of non-resident tuition as well.

IRS Code states that graduate students who are hired in non-teaching/non-research assistantships can receive non-taxed tuition remission of $5,250.00 per calendar year at MSU; these assistantships are titled Graduate Service Assistants. Amounts in excess of $5,250.00 per calendar year are taxable.

**Distance Learning Courses**

A student enrolled in a total of 9 credit hours (6 graduate credit hours on campus and 3 Distance Learning credits) are treated as the student’s required full-time load. Tuition will be assessed at the current University rate. The full-time tuition exemption credit will be applied to a student’s account covering the tuition cost of the Distance Learning course. A student enrolled in a total of 10 or more credit hours that includes Distance Learning or ESL courses will be charged additional tuition at the current University per-credit hour rate. The graduate assistant tuition waiver does not cover the cost of Distance Learning or ESL courses when a student is enrolled in more than 9 credit hours, and the graduate assistant must cover any additional cost incurred as a result of Distance Learning or ESL enrollment.

**Termination of Assistantship**

If the assistantship is terminated prior to the specified ending date, the assistant’s duties, stipend, and tuition exemption will cease. The student will be required to pay a prorated portion of the previously applied tuition exemption.

**Stipends**

Stipends are paid on the fifteenth and the last working day of each month. When employment begins during a pay period, stipends are calculated on a pay-period basis.

**Health Insurance Supplement**

The University provides a health insurance subsidy for Graduate Assistants who purchase the University-sponsored health insurance plan through the MSU Longest Student Health Center. The total health insurance subsidy is $400 per academic year; $200 for the fall semester and again during the spring/summer semester. The fund will be deposited into each Graduate Assistant’s account in November and in March. To access information about the University-sponsored health insurance plan, visit http://www.health.msstate.edu/healthcenter/insurance_student.php.
RESPONSIBILITIES FOR MAINTAINING
A GRADUATE ASSISTANTSHIP

Required Course Load

Fall and Spring Semesters—Graduate assistants must be full-time students (registered in at least 9 graduate credit hours) and may not enroll in more than 13 graduate credit hours. The required full-time status must be maintained through the entire semester. Therefore, no course may be dropped if the resulting course load would be fewer than the required 9 graduate credit hours, nor may any course in the 9-hour load consist of or be converted to audit status. The 9-credit 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 6 credit hours and only one undergraduate course will be permitted as part of the 9-credit hour load (per Graduate Council, March 2001). Some international students are required by the University to take ESL 5323 and/or ESL 5313. Both are considered prerequisites, and a graduate student may enroll in one of the courses and 6 credit hours of degree-program courses while holding an assistantship. ESL 5323 and ESL 5313 may not be taken concurrently.

Full- and Half-Summer Awards—Full-summer awards require an enrollment in at least 6 graduate credit hours with a maximum allowed of 13 credit hours. Any combination of Maymester, 1st 5-week, 2nd 5-week, or 10-week terms may be used for the 13-credit hour maximum; however, enrollment in either 5-week term must be at least 3 graduate credit hours with a maximum allowed of 7 credit hours. Additionally, a study holding a half-summer graduate assistantship must be registered for courses scheduled during the term of the assistantship.

Course Overload
Graduate assistants wishing to schedule more than a full-time course load may, with the approval of his/her major professor, department head, graduate coordinator and dean, register for more than 13 hours by submitting an Overload Form, (http://www.provost.msstate.edu/students/forms/Request_for_scheduling_overload_graduate_students.pdf) to the major professor. The dean’s office sends the approved form to the Registrar’s Office. Such transmission will allow application of additional tuition exemption consistent with current policy.

Academic Achievement
To retain an assistantship, a student must demonstrate satisfactory progress in the academic 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 specific program; a grade of U, D, or F in any course; more than two grades below a B; failure of the preliminary/comprehensive examination; an unsatisfactory evaluation of a thesis or dissertation; failure of a research defense; or any other failure of a required component of one’s program of study. Any, or a 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; however, the preceding definition must be the minimum standard for continuing in graduate programs and holding graduate assistantships. In the case of dismissal, a student’s assistantship is terminated.

GRADUATE TEACHING ASSISTANT
CERTIFICATION PROGRAM

The Graduate Teaching Assistant Certification (GTAC) Program is designed to introduce first-time teaching assistants to the techniques and skills necessary to be effective instructors in a university environment and promote excellence in undergraduate education at Mississippi State University. The Teaching Assistant Certification Program consists of the following three components:

- Classroom Communication and Culture (CCC) Workshop (for international students only)
- Graduate Teaching Assistant (GTA) Orientation (for both US and international students)
- Microteaching Simulation/Classroom Certification Evaluation (for GTA2/GTA3 certification).

Additional information about the Graduate Teaching Assistant Certification Program is available online by visiting http://www.grad.msstate.edu/workshop/.

Certification Levels for Graduate Teaching Assistants
By participating in the Teaching Assistant Certification Program, graduate students can become certified at one of the three levels that correspond to the duties/responsibilities of the teaching assistantship appointment. A minimum of GTA1 certification is required for ALL graduate assistantship appointments at MSU.

Graduate Teaching Assistant 1 (GTA1)—The graduate student will assist in such tasks as preparing examinations, grading papers, preparing class lectures, maintaining class records, and tutoring students outside formal classes. This position does not require the Microteaching Simulation/Classroom Certification. A GTA who initially received assignment to a GTA1 level appointment may later complete the Microteaching Simulation/Classroom Certification Evaluation in anticipation of a change in duties/responsibilities that require direct contact with students. A GTA who has already obtained GTA1 level certification is not required to attend the CCC Workshop (if applicable) or GTA Orientation again.
Graduate Teaching Assistant 2 (GTA2)—The graduate assistant may have some of the same duties as GTA1. Other responsibilities include making presentations in laboratories/classrooms, conducting lectures, and leading discussion groups. These tasks involve direct contact with students, but the graduate teaching assistant is not an instructor of record. This level requires completion of the Microteaching Simulation/Classroom Certification Evaluation.

Graduate Teaching Assistant 3 (GTA3)—The graduate assistant will teach classes for credit as the instructor of record and/or as the person primarily responsible for assigning grades. The Southern Association of Colleges and Schools (SACS) accreditation requirements mandate that the graduate student must possess, at minimum, a master’s in the teaching discipline or 18 graduate semester hours completed in the teaching discipline. Direct supervision by a faculty member experienced in the teaching discipline, regular in-service training, and planned and periodic evaluations are also required by SACS. This assistantship level requires completion of the Microteaching Simulation/Classroom Certification Evaluation. Human Resources Management may require additional paperwork for verification of teaching credentials including submission of transcripts from each institution attended. Students must satisfy all program/evaluation requirements necessary to obtain the level of certification (GTA1, GTA2, GTA3) corresponding to the duties/responsibilities of the teaching assistantship appointment. Waivers to allow classroom/laboratory teaching (GTA2/GTA3 levels) without successful completion of all Graduate Teaching Assistant Certification Program component requirements WILL NOT be issued. The component requirements are:

- *Classroom Communication and Culture (CCC) Workshop/Classroom English Certification (International Graduate Teaching Assistants only)
- *Graduate Teaching Assistant (GTA) Orientation
- *Microteaching Simulation/Classroom Certification

**Classroom Communication and Culture (CCC) Workshop**

The CCC Workshop provides international graduate students who plan to serve as teaching assistants with the cultural education and communication skills necessary to achieve effective performance of their duties. The workshop also serves as a tool for evaluating international students’ teaching and language skills. The training, evaluation, and certification of international GTAs are essential to ensure that undergraduate students receive a high quality of instruction. The CCC Workshop is held annually prior to the beginning of the fall semester. International students holding a first-time teaching assistantship appointment for the spring semester must meet alternate requirements to obtain temporary Classroom English Certification prior to beginning the first teaching assignment at MSU. The student will be evaluated by staff from the Office of International Education and may be required to enroll in ESL 5313 during the spring semester to hold the assistantship appointment.

The requirement for Classroom English Certification is waived for international students with a bachelor’s degree from an accredited US institution. These students are not required to complete the Classroom Communication and Culture (CCC) Workshop. The waiver does not apply to international students who received a graduate level degree or certificate from an accredited US institution.

**Graduate Teaching Assistant (GTA) Orientation**

Held semi-annually before the fall and spring semester begin, the Graduate Teaching Assistant (GTA) Orientation introduces students who plan to become new teaching assistants to effective teaching methods and tools and educates them about University policies and resources. The GTA Orientation emphasizes the importance of providing high-quality instruction at Mississippi State University. All first-time GTAs, both domestic and international, are required to attend the Orientation.

Failure to complete the GTA Orientation, including partial attendance or tardiness to Orientation sessions, will render a student ineligible for a teaching assistantship award.

**Microteaching Simulation/Classroom Certification Evaluation**

Held semi-annually immediately following the Graduate Teaching Assistant (GTA) Orientation, the Microteaching Simulation/Classroom Certification Evaluation is the tool used to determine whether a GTA is equipped with the skills needed to deliver high-quality instruction to undergraduate students at Mississippi State University. Prospective students for GTA2/GTA3 certification prepare a 10-15 minute interactive mini-lesson that would be presented to students as part of an assigned course; they deliver the mini-lesson to an evaluative panel of graduate faculty members. Classroom certification is required of all teaching assistants whose responsibilities involve direct contact with students such as giving presentations in lectures or laboratories, conducting lectures, and leading discussion groups. A student cannot participate in the Microteaching Simulation/Classroom Certification Evaluation segment until all other Teaching Assistant Certification Programs requirements have been completed.
SERVICES AND
FACILITIES

ASSESSMENT AND TESTING SERVICES
The Office of Assessment and Testing Services, located at 195 Magruder Street, serves as the University's testing center for national standardized computer-based and paper/pencil tests such as ACT, CLEP, GMAT, GRE, Praxis, LSAT, MCAT, MAT, PCAT, and TOEFL. Registration information can be obtained from test program websites listed on our website at www.ats.msstate.edu/testing. Visit or call 662-325-6610 for additional information.

BOOKS AND SUPPLIES
MSU leases its bookstore to Barnes & Noble; 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 which may be used for, among other items, scholarships, faculty increases, and departmental support. The bookstore's retail areas include textbooks, supplies, clothing, gifts, electronics, and trade books. It offers in excess of 20,000 general reading and reference titles and features a Starbucks Café. All operations are located at Cullis Wade Depot. The bookstore sells new and used books at prices standard in most university bookstore operations and also purchases used books at standard prices. Barnes & Noble will match prices from all local competitors. Call 662-325-1576 to find out more.

G.V. “SONNY” MONTGOMERY
CENTER FOR AMERICA’S VETERANS
The Center for America’s Veterans works to develop and implement a variety of programs to provide student support services focused on the special needs of today’s military veterans, service members, dependents, and survivors. The Center offers a comprehensive educational benefits counseling program to help students maximize VA educational benefits. The Center also provides assistance with Active Duty/National Guard/Reserve tuition assistance. The Center offers a variety of programs to facilitate the transition to school and to help ensure campus policies to better serve veterans, service members, dependents, and survivors. The Center for America’s Veterans also offers Veteran Work Study positions and a Graduate Assistantship. Mississippi State University now offers priority registration for eligible veterans, service members, dependents, and survivors. The Center is located at 126 Magruder Street (across from Rice Hall) and provides a veteran-friendly atmosphere as well as a computer lab free to all veterans, service members, dependents, and survivors. The Center is open from 8:00 a.m. to 5:00 p.m. Monday-Friday and can be reached at 662-325-6719 or by visiting the website at www.veterans.msstate.edu.

DINING SERVICES
MSU offers these dining choices throughout campus:
The Market Place at Perry Dining Hall
Real Food on Campus at Templeton
Gaddis Hunt Commons at Colvard Student Union—
Chick-Fil-A, Zoca Southwestern, MS Steak,
Bleecker Street Deli, Panda Express
C³ Convenience Store, Colvard Student Union
Starbucks, Colvard Student Union
Food For Thought featuring Einstein Bros Bagels,
Mitchell Memorial Library
C³ Express Convenience Stores, Ruby Hall and
Hathorn Hall
Burger King, Roberts Building
State Fountain and Bakery, below The Marketplace
at Perry
Pegasus Dining, the Wise Center
MSU Catering, contact at 662-325-3663
MSU Dining Services also provides students with part-
time and full-time job opportunities. Applications can
be picked up in the Dining Services office located at
the north end of The Marketplace at Perry or printed
from the website.

For more information about MSU Dining Services
meal plans, how to sign up for a meal plan, or to ask
any other questions, visit the Dining Services
website at www.msstatedining.com or telephone at
662-325-0923.

HEALTH SERVICES
University Health Services and The Longest Student
Health Center are designed to give primary medical
care to students with mental and physical health
issues. The Health Center is open during regular
school sessions to all Mississippi State University
students. It is recommended that all students use the
Student Health Center as their preferred provider of
care while at MSU. The Center is staffed with well-
qualified family practice physicians, nurse
practitioners, and registered 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. Those who need more specialized care
than the Health Center can provide will be referred to
the appropriate resource. For an appointment call
662-325-7539. Clinic hours are 8:00 a.m. to 5:00
p.m., Monday, Tuesday, Wednesday, and Friday; 9:00
a.m. to 5:00 p.m. on Thursday. 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.
A Student Accident and Sickness Insurance Plan has been developed specifically for MSU 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 alternate equivalent coverage. Information on student health services and student health insurance is available at www.health.msstate.edu or at John C. Longest Student Health Center, Box 6338, Mississippi State, MS 39762, telephone 662-325-5895.

HAUSING and RESIDENCE LIFE
Dr. E. Ann Bailey, Director, Box 9502, Mississippi State, MS 39762; Phone: 662-325-3555; Fax: 662-325-4663

Residence Hall Facilities
MSU provides living accommodations for approximately 4,000 students (standard capacity is two students per room). These accommodations include apartments and private rooms for upper-class and graduate students. Current housing fees are posted at www.housing.msstate.edu.

Applying for on-Campus Living
MSU offers a convenient online application process for its on-campus living arrangements. A student must first be admitted to the University before applying for housing, and a non-refundable $55.00 application fee is required. For more information, visit www.housing.msstate.edu/apply/ or contact the Department of Housing and Residence Life by phone at 662-325-3555, by fax at 662-325-4663, or by e-mail at housing@saffairs.msstate.edu.

INTERNATIONAL SERVICES
International Services, a unit of the Division of Student Affairs’ Office of Admissions and Scholarships, advises and provides information to students, research scholars, visiting professors, and MSU faculty and administrators about rules and regulations of immigration.

International Services serves as the University liaison between the U.S. Citizenship and Immigration Services (USCIS), the U.S. Department of State, and the Mississippi State University international community holding F and J visas. By administering both the F-1 Student and Exchange Visitor Programs, International Services provides documents for qualified non-immigrants to enter the United States. International advisors inform students about maintenance of lawful status, work authorization, enrollment requirements, extension of stay, and other immigration issues. Semiannual orientation programs for new students along with additional immigration workshops are conducted by this office.

The International Services office is located in 100 Montgomery Hall and can be contacted by telephone at 662-325-8929. Additional information is found at http://admissions.msstate.edu/international/.

LEARNING CENTER
The Learning Center (TLC) is an academic support unit for students, staff, and faculty at Mississippi State University whose primary purpose is to help students achieve and maintain successful academic standing. TLC offers both credit courses and non-credit services to graduate and undergraduate students. The Center is located in 267 Allen Hall, and the telephone number is 662-325-2957.

PARKING SERVICES
Regulations for the control, direction, parking, and general regulation of traffic and automobiles on 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 permit issued must be properly displayed on the vehicle. Parking areas are assigned to residence hall students, commuter students, and staff. All parking areas are marked clearly and identified properly by appropriate signs. The Office of Parking Services website at http://www.parkingservices.msstate.edu/ provides complete information regarding regulations, services, and permit application. Graduate students who hold assistantships should contact Parking Services for information regarding their permits.

SEXUAL ASSAULT SERVICES
Sexual Assault Services is a service to the University community comprised of two components: a crisis response team and outreach/programming and education. The Sexual Assault Response Team (SART) handles sexual assault cases, crisis intervention, assessment, direct support, and provides consultation, referral for the victim and the accused. SART is available to help anyone who reports a violation of the sexual assault policy. The team includes a coordinator and designated individuals from the University Police Department, the Longest Student Health Center, Residence Life Association, the Dean of Student’s Office, and Student Counseling Services. For information or to report a sexual assault case, students and members of the University
community may contact the SART coordinator at Student Counseling Services at 662-325-2091. Sexual Assault Services coordinates prevention education, outreach programming, and prevention education for the campus. For more information or to request programming, call Sexual Assault Services at 662-325-9101 or visit our website at http://www.msstate.edu/dept/sars/.

STUDENT COUNSELING SERVICES
Student Counseling Services, located in 115C Hathorn Hall, offers a variety of clinical and consultation services free to all full-time MSU students Monday through Friday 8:00 a.m. to 5:00 p.m. Appointments may be made in person or by calling 662-325-2091.

Student Counseling Services’ staff is composed of experienced professionals with training in counseling psychology and counseling who are knowledgeable in facilitating personal growth and development. Student Counseling Services offer career, personal, couples, family, and group counseling. Student Counseling Services also offers consultation and educational programs to individuals, groups, departments, and classes on a variety of topics. Consultation services and student concerns are available to faculty, staff, and family members. For more information, please visit the Student Counseling Services website at http://www.health.msstate.edu/scs/.

FEES, EXPENSES, AND FINANCIAL AID
Tuition and Required Fees (T&RF)
With the exception of the College of Veterinary Medicine and Meridian campuses, stated hereafter, the following fees apply to students enrolled at Mississippi State University. Tuition and required fees are assessed on a per credit hour basis at the prevailing rates as determined by The Institution of Higher Learning, the governing board of the University. These rates are applicable at the time of publication and are subject to change without notice.

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<thead>
<tr>
<th></th>
<th>Fall</th>
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<tr>
<td>A. Tuition &amp;</td>
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<td>Required Fees</td>
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<td>$8,865.00</td>
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<tr>
<td>Non-resident fee 1</td>
<td>$492.50 per hour</td>
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</table>

1Those students who reside outside the state of Mississippi (non-resident) are charged both T&RF and Non-resident Tuition each semester of enrollment.

2Per credit hour rate is strictly applied to enrollment in all parts of the summer term (no maximum applied).

A student will be considered full-time for T&RF purposes when registered for 9 or more hours.

Part-time students registered for 1 to 8 graduate hours will be charged at the per-credit-hour rate.

9 or more hours of enrollment will be assessed at the maximum per term rate (applicable to fall and spring).

T&RF assessments for course enrollment with the Division of Academic Outreach and Continuing Education (AOCE) are in addition to all other campus T&RF charges.

The same T&RF rates apply to those courses that are taken as an audit.

T&RF relative to Student Activities—All students, by payment of T&RF, are eligible for use of facilities, participation in intramural sports, admission to intercollegiate athletic events, student health services and other miscellaneous activities. An additional fee may be required for some activities for less than full-time enrollment. These required fees are applicable regardless of the method of course instruction (i.e., traditional, online, distance, etc.).

Course Participation Fees—Fees in addition to T&RF are associated with some courses which require the use of special equipment, facilities or materials. These fees, which vary by course, will be collected as part of registration.

Schedule Change Fees—Please see www.registrar.msstate.edu/Calendars/academiccal.html.

Managing Your MSU Student Account
Account Information—A financial record for each student is maintained and presented to the student via the myState Portal. The information is considered confidential; however, the records of students will be available for examination by authorized representatives of the government. Current T&RF should be paid by the established monthly due date. Partial payments of an account balance are permitted during the semester/term; however, monthly service fees will apply (see “Payment Due Dates and Service Fees”).

Students are responsible for payment of all T&RF charges unless they either cancel their schedule or withdraw from school by the first day of class. See refund schedule on the Web; click on Refund Policy
for details. Failure to take appropriate withdrawal action may result in significant payment obligations. According to established University policy, student accounts must be current (i.e., not on an Account Services/Financial hold) in order to continue enrollment at MSU. To avoid unnecessary delays in your continued enrollment, please review your account to insure all previously billed charges have been paid. If you have questions about this policy, please feel free to contact Account Services:

- By email – cashiers@controller.msstate.edu
- By phone – 662-325-2071
- In person – Account Services located in Garner Hall

Payment Due Dates and Service Fees—Electronic billing statements are available to students on or about the 15th of each month via the University’s secure myState portal. Students will receive a monthly email notification that their account has been billed. These statements contain a monthly summary of charges and credits to the student’s account.

- Regular monthly payment due dates are the 9th of each month.
- The student’s account will be assessed a monthly 1.5% service fee on any billed charges outstanding beyond the payment due date.
- Service charges, as well as an “Account Services Hold,” may be avoided by paying the full account balance each month by the payment due date.

Unpaid Balances from Prior Semesters—Any outstanding and past due amounts owed to the University must be paid in full before a student may register for additional courses or make schedule changes.

- 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 has been paid to current status.
- Per federal financial aid regulations, prior aid year outstanding charges cannot be paid with current aid year financial aid.

Overdue Account Restrictions—The administrative authorities of the University will withhold the transcripts and diplomas, degree certification, letters of good standing, and other certification of enrollment and deny readmission of any student who has an over-due financial obligation to the University.

- The student’s records may be cleared and a diploma or transcript released when the indebtedness is paid in full.

—If a financial hold is released based upon a financial agreement and the terms and conditions of that agreement are not met, MSU reserves the right to void the current term class schedule without notice and without promise of reinstatement of the same class schedule.

Attorney and Collection Fees—Student accounts remaining unpaid by the end of the term may be turned over to an external agency for collection.

- The prevailing collection rate will be added to the amount owed by the student.
- If an attorney’s services are needed, the student shall be responsible for payment of the attorney’s fees plus all court and other collection costs incurred.

Payments—Acceptable forms of payment: cash (payments, accepted only in Account Services located in Garner Hall or Meridian Business Office), personal or corporate checks; money orders; cashier checks; credit cards (American Express, Discover, and MasterCard); wire transfer; or local, state, University or federal financial aid (e.g., grants, loans, scholarships, waivers, VA or military assistance, etc.). Please provide/include the MSU ID number with all payments. If sending a payment via US Portal Service, please mail payment at least five (5) business days prior to due date.

Check Payments—The University will accept checks in payment of amounts due the University. The University reserves the right to defer payment on the balance of any check tendered in excess of the amount due the University until the check has had time to clear for payment through banking channels.

Checks offered to the University that are not honored by the bank on which it is drawn are considered non-payment and will result in the voiding of course schedule(s) and assessment of appropriate fees. The maximum penalty allowed by law will be charged for any check returned by your bank for any reason. The University expects that each debt created by a returned check will be promptly and fully corrected. Failure to respond to a notice concerning a returned check may result in legal action, the denial of readmission, and the withholding of records. The University reserves the right to refuse acceptance of checks presented by students who had had previously returned checks. In such cases payment must be made by cash, money order, certified bank check, or credit card.
QuikPay Service: Electronic Credit Card/Debit Card/E-check payments and Account Authorized Payers

—The QuikPAY® service (myState portal), Banner, Personal Info, Make an Online Payment) allows students to make payments using a credit card or electronic check (e-check). Acceptable credit/debit cards are American Expresss, Discover and MasterCard.*

(Note: your card account will be assessed a 2.7% convenience fee in addition to the payment amount.

—Students may also authorize a payer(s) (usually a parent) to access their account information and make payments to their account. Students must initiate this process by logging into the MSU myState portal at www.msstate.edu and proceed to “Make an Online Payment,” then link to the QuikPAY® site by choosing “Authorize Payers” and following the easy instructions to create, modify, or delete an authorized payer.

Wire Transfer—Please contact Account Services at 662-325-2072 for wiring instructions.

Financial Aid or Scholarship Payments—Students who receive a scholarship or need-based financial aid from the University are expected to use their financial aid or scholarship award to complete payment T&RF as well as other enrollment-related charges assessed for the same term/semester that the financial award is issued. Per federal financial aid regulations, prior aid-year outstanding charges cannot be paid with current aid year financial aid. The remaining balance of scholarship and financial aid funds are available to be used for other educational expenses within the same term/semester only after T&RF have been paid.

Refunds—Refunds of credit balances may be requested as follows:

1. Direct Deposit: Utilizing the BULL-e-BUCK$ electronic account management program via the myState portal
2. In person: Account Services located in Garner Hall
3. US Postal Mail: Contact Account Services by phone at 662-325-2071 to request refund or make the request by email at cashiers@controller.msstate.edu.

Refunds of credit balances resulting from withdrawals or class drops may be requested as follows:

1. In person: account Services located in Garner Hall
2. US Postal Mail: Contact Account Services by phone at 662-325-2071 to request refund or make the request by email at cashiers@controller.msstate.edu.

Credit balances resulting overpayments by check or e-check will be available 14 calendar days after posting to the student’s account. Credit balances resulting from overpayments by credit card will be refunded to the credit card account on which the original payment was made.

Web Instructions to Access Your Account—From the MSU main Web page, select myState; secure user access using your personal NetID and password; click on the Banner tab for access to the following services:

1. Change your billing address and/or E-mail address
2. View your current or prior billing statement
3. View your account detail history
4. Make a payment by credit card or e-check
5. Authorize another user to help manage or make payment to your account
6. Access a remittance stub to make a payment via US mail
7. View your pending financial aid or scholarships
8. Use the BULL-e-BUCK$ program to direct-deposit your refund or make a transfer to your MoneyMate account

Helpful Phone Numbers

Account Services 662-325-2071
Sponsored Student Office 662-325-8017
Internal Collections 662-325-6619

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 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 International Services, preferably prior to registration. Health insurance charges will not be removed after the 10th class day.

TUITION EXEMPTIONS

Employees—Mississippi State University “Benefits Eligible” employees who have appropriate approval may have tuition remitted for up to 6 credit hours per semester 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 the semester.

**Senior Citizens**—Legal residents of the State of Mississippi age 60 or older may enroll tuition-free in a maximum of 6 hours per semester with a maximum of 18 credit hours per calendar year at the Starkville or Meridian campuses. These courses are available on a space-available, first-come, first-serve basis. Courses offered through the Division of Academic Outreach and Continuing Education are not included in this program nor are courses offered for the Doctor of Veterinary Medicine degree program. The application fee of $40.00 is required.

**Alumni Nonresident 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. A minimum 3.00 cumulative GPA is required for renewal of the waiver. Grades are checked at the end of each fall semester.
GRADUATE DEGREE and CERTIFICATE PROGRAMS
OFFERED BY
MISSISSIPPI STATE UNIVERSITY

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 reserved for the departments to distinguish one course from another. A fourth digit of zero (0) means that credit is variable to be fixed in consultation with the professor (e.g., ACC 4000 Directed Individual Study).

Courses that are in close sequence, such as two semesters of a survey course or a sequence of numbers for a seminar in a particular field, may be listed with a hyphen (-) between the two four-digit numbers (e.g., 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 (e.g., HI 4703/6703 England to 1485). Students enrolled for graduate credit will be required to complete assignments above and beyond those students enrolled for undergraduate credit.

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  Directed Individual Study  (Undergraduate credit only)
5001-5999  Fifth year undergraduate or 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
7000  Directed Individual Study (Graduate credit only)
8000  Master’s level research and thesis
9000  Doctoral level research and dissertation

See General Requirements of the Graduate School and specific program information for course requirements.

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 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
335 McCain Engineering Building
662-325-3823 – www.coop.msstate.edu
Associate Director: Angie Chrestman; Seniors Coordinators: Lisa Gooden and Edie Irvin

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 Angie Chrestman, Associate Director, at achrestman@career.msstate.edu or Box P, Mississippi State, MS 39762.

International Education serves international and domestic students in pursuit of a global education through the English as a Second Language Center and study abroad programs. The English as a Second Language Center provides an intensive language and culture program to support all international students. The study abroad office develops programs to provide opportunities and support to domestic students who are studying in other countries while maintaining an affiliation with MSU. The ESL Center is responsible for the administration of the intensive English language courses for those students who score less than 550 on the paper-based Test of English as a Second Language (TOEFL). Other score equivalents are:

- TOEFL Computer-based Test: 213
- TOEFL Internet-based Test: 79-80
- International English Language Testing System (IELTS): 6.5

Courses:

ESL 5110 American Language and Culture I (TOEFL score between 457 and 499 [or equivalent] or consent of instructor). 1-18 hours (Does not count towards any degree)

ESL 5120 American Language and Culture II (ESL 5110 or TOEFL score between 500 and 524 [or equivalent] or consent of instructor). 1-18 hours (Does not count towards any degree)

ESL 5323 Academic Research and Writing (ESL 5120 or TOEFL score above 500 [or equivalent]). 3 hours (Does not count towards any degree)

ESL 5333 Critical Reading (ESL 5120 or TOEFL score above 500 [or equivalent]). 3 hours (Does not count towards any degree)

ESL 5313 Classroom Communication and Presentation (ESL 5120 or TOEFL score above 525 [or equivalent]). 3 hours (Does not count towards any degree)
### Degree and Certificate Programs

(T=thesis; NT=non-thesis)

1=Starkville, 2=Meridian, 5=Distance

<table>
<thead>
<tr>
<th>Department</th>
<th>Master of Science</th>
<th>Doctor of Philosophy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department of Agricultural Economics</strong></td>
<td>Major: Agriculture</td>
<td>Major: Food Science, Nutrition and Health Promotion</td>
</tr>
<tr>
<td></td>
<td>Concentration: Agricultural Economics (T; NT) [1]</td>
<td>Concentrations: Food Science and Technology [1]</td>
</tr>
<tr>
<td><strong>Department of Animal and Dairy Sciences</strong></td>
<td>Doctor of Philosophy</td>
<td>Nutrition [1]</td>
</tr>
<tr>
<td></td>
<td>Major: Agriculture</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Concentration: Animal Science (T; NT) [1]</td>
<td></td>
</tr>
<tr>
<td><strong>Department of Biochemistry, Molecular Biology, Entomology, and Plant Pathology</strong></td>
<td>Doctor of Philosophy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Major: Agricultural Life Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Concentration: Biochemistry (T; NT) [1]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Entomology (T) [1]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plant Pathology (T) [1]</td>
<td></td>
</tr>
<tr>
<td><strong>Department of Food Science, Nutrition and Health Promotion</strong></td>
<td>Doctor of Philosophy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Major: Food Science, Nutrition and Health Promotion</td>
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</tr>
<tr>
<td></td>
<td>Concentration: Food Science &amp; Technology (T) [1]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Health Promotion (T; NT) [1]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nutrition (T) [1]</td>
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</table>

**School of Human Sciences**

<table>
<thead>
<tr>
<th>Master of Science</th>
<th>Major: Agricultural &amp; Extension Education (T; NT) [1]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Doctor of Philosophy</strong></td>
<td>Major: Agricultural Sciences</td>
</tr>
<tr>
<td></td>
<td>Concentration: Agriculture and Extension Education [1]</td>
</tr>
</tbody>
</table>

**Gerontology Graduate Certificate**

| Master of Landscape Architecture | Major: Landscape Architecture (T) [1] |

**Department of Plant and Soil Sciences**

<table>
<thead>
<tr>
<th>Master of Science</th>
<th>Major: Agriculture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration:</td>
<td>Agronomy (T; NT) [1]</td>
</tr>
<tr>
<td></td>
<td>Horticulture (T) [1]</td>
</tr>
<tr>
<td></td>
<td>Weed Science (T) [1]</td>
</tr>
</tbody>
</table>

| **Doctor of Philosophy** | Major: Agricultural Sciences                           |
|                         | Concentrations: Agronomy [1]                           |
|                         | Horticulture [1]                                       |
|                         | Weed Science [1]                                       |

**Department of Poultry Science**

<table>
<thead>
<tr>
<th>Master of Science</th>
<th>Major: Agriculture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration:</td>
<td>Poultry Science (T; NT) [1]</td>
</tr>
</tbody>
</table>

| **Doctor of Philosophy** | Major: Agricultural Sciences                           |
|                         | Concentration: Poultry Science [1]                    |

### Interdisciplinary Curricula

These programs are based on course offerings from several departments and colleges, including but not limited to Agricultural and Biological Engineering; Agricultural Economics; Animal and Dairy Sciences; Basic Science (College of Veterinary Medicine);
Biochemistry and Molecular Biology; Biological Sciences (College of Arts and Sciences); Entomology and Plant Pathology; Poultry Science; Wildlife and Fisheries (College of Forest Resources) and the College of Business.

**Master of Agribusiness Management**  
Major: Agribusiness Management (NT) [1]

**Master of Science**  
Major: Agricultural Life Sciences  
Concentrations: Animal Physiology (T; NT) [1]  
Genetics (T; NT) [1]

**Master of Science**  
Major: Agriculture  
Concentration: Animal Nutrition (T) [1]

**Master of Science**  
Major: Agriculture (T; NT)  
Concentration: Engineering Technology [1]

**Doctor of Philosophy**  
Major: Agricultural Sciences  
Concentration: Engineering Technology [1]

**Doctor of Philosophy**  
Major: Graduate Applied Economics [1]  
(Interdisciplinary curriculum offered in conjunction with Department of Finance and Economics in the College of Business)

**Doctor of Philosophy**  
Major: Life Sciences  
Concentrations: Animal Physiology [1]  
Genetics [1]

The College of Agriculture and Life Sciences is housed in the Division of Agriculture, Forestry, and Veterinary Medicine. The Division also includes 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. There are six majors with fourteen concentrations at the master’s level and four majors with twelve concentrations at the doctoral level.

Graduate students in the College of Agriculture and Life Sciences can choose from diverse disciplines such as molecular biology, nutrition, physiology, bioengineering, health and disease, and agricultural and extension education. 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 College of Agriculture and Life Sciences are enhanced by the research mission, which applies scientific approaches to real-life problems and the pursuit of new knowledge. Graduate students have the opportunity to study and conduct research closely with and under the guidance of nationally and internationally renowned researchers whose work has led to recognition for the University in the form of scientific publications and commercial products and to the solution of novel problems of importance to society.

**Agribusiness Management**  
An Interdisciplinary Program  
Dr. Steven C. Turner, Department Head  
Dr. Barry J. Barnett, Graduate Coordinator  
123 Howell Building  
Box 5187  
Mississippi State, MS 39762  
Telephone: 662-325-2750  
website: [www.agecon.msstate.edu](http://www.agecon.msstate.edu)

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 is administered by the Department of Agricultural Economics. The program is designed to prepare students for employment in the management of agribusiness. Graduate coursework may begin in any semester. Additional information is found at the department’s website, [www.agecon.msstate.edu/academics/agribusmg](http://www.agecon.msstate.edu/academics/agribusmg).

**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 the Graduate School 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 PBT (233 CBT or 84 iBT) or an IELTS (International English Language Testing Systems) score of 7.0 or higher to be considered for admission.

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 the initial objective advancement to regular status. A provisional student must receive a 3.00 GPA on the first 9 hours of graduate-level courses on the program of study taken at Mississippi State University in order to achieve regular status. Courses with an S grade, transfer credits, or credits earned while in Unclassified graduate status cannot 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, 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 the program.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 2203</td>
<td>Survey of Accounting (or ACC 2013 Principles of Financial and ACC 2023 Managerial Accounting)</td>
</tr>
<tr>
<td>BQA 8443</td>
<td>Statistical Analysis for Business Decision Making (or BQA 2113 Business Statistical Methods I and BQA 3123 Business Statistical Methods II)</td>
</tr>
<tr>
<td>EC 4043</td>
<td>Survey of Economics (or EC 2113 Principles of Macroeconomics and EC 2123 Principles of Microeconomics)</td>
</tr>
<tr>
<td>FIN 3123</td>
<td>Financial Management</td>
</tr>
<tr>
<td>MGT 8063</td>
<td>Survey of Management (or MGT 3114 Principles of Management and Production)</td>
</tr>
</tbody>
</table>

M.A.B.M. Core—The core portion of the program consists of 14 hours of coursework.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 8112</td>
<td>Financial Statement and Management Accounting Report Analysis for Decision Making</td>
</tr>
<tr>
<td>AEC 6530</td>
<td>Agribusiness Internship</td>
</tr>
<tr>
<td>AIS 8203</td>
<td>Advanced Communication in Agricultural Information Sciences</td>
</tr>
<tr>
<td>FIN 8113</td>
<td>Corporate Finance</td>
</tr>
<tr>
<td>MKT 8153</td>
<td>Marketing Management</td>
</tr>
</tbody>
</table>

In addition to the core requirements, students are required to take 12 hours of AEC courses and 9 hours of approved electives. At least 15 of the total course credit hours must be at the 8000-level.

Program of Study/Completion Requirements
The Master of Agribusiness Management degree program requires a minimum of 35 hours of coursework which includes an internship and a comprehensive examination.

Agricultural and Biological Engineering
Dr. Jonathan Pote, Department Head
Dr. Jeremiah Davis, Graduate Coordinator
150 Agricultural Engineering Building
Box 9632
Mississippi State, MS 39762
Telephone: 662-325-3282
E-mail: 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 Agriculture with a concentration in Engineering Technology or a Doctor of Philosophy in Agricultural Sciences with a concentration in Engineering Technology.

Admission Criteria
Prerequisites for admission into the graduate program include all the general requirements of the Office of the Graduate School, 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 PBT (213 CBT or 79 iBT) or an IELTS (International English Language Testing Systems) score of 6.5 or higher. Exceptions to these requirements are considered on a case-by-case basis and require approval of the Department Chair.

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 9 hours of graduate courses at Mississippi State University after admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.

Program of Study/Completion Requirements

Master's Thesis Option—The Master of Science degree in Agriculture with a concentration in Engineering Technology requires a minimum of 24 credit hours of coursework beyond the baccalaureate degree, at least one-half of which must be from the ≥ 8000 level courses, and 6 or more credit hours of research/thesis for students in the thesis option. Required courses are ST 8114 and 1 credit hour of ABE 8911, ABE 8921, or ABE 8931. A thesis and an oral comprehensive examination in defense of the thesis are required. 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.

Master's Non-Thesis Option—The non-thesis option for the Master of Science in Agriculture with a concentration in Engineering Technology requires a minimum of 30 credit hours of coursework, at least one-half of which must be from 8000 level courses or above. Required courses are ST 8114 and 1 credit hour of ABE 8911, ABE 8921, or ABE 8931. The major professor and graduate committee will determine specific course requirements for the student's program. The student must submit a research paper.

Doctoral—Doctoral students are required to complete a minimum of 60 credit hours of coursework beyond the baccalaureate degree, at least one-half of which must be from 8000-level courses or above, including at least 2 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. 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.

Academic Performance

Unsatisfactory performance in the graduate program in Agricultural and Biological Engineering is defined as any of the following: failure to maintain a 3.00 average GPA in attempted graduate courses after admission to the program; a grade of U, D, or F in any one course; more than two courses with a grade of C; failure of the research defense; 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, 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 upon the student’s appeal, the student can then submit a written appeal to the dean of the College of Agriculture and Life Sciences.

Graduate 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>ABE 6163</td>
<td>Agricultural Machinery Management</td>
<td>3</td>
</tr>
<tr>
<td>ABE 6263</td>
<td>Soil and Water Management (ABE 2873)</td>
<td>3</td>
</tr>
<tr>
<td>ABE 6383</td>
<td>Building Construction (EG 1143)</td>
<td>3</td>
</tr>
<tr>
<td>ABE 6453</td>
<td>Cotton Ginning Systems and Management</td>
<td>3</td>
</tr>
<tr>
<td>ABE 6473</td>
<td>Electrical Application (ABE 1863)</td>
<td>3</td>
</tr>
<tr>
<td>ABE 6844</td>
<td>Sustainable Communities [Same as LA 4844/6844]</td>
<td>4</td>
</tr>
<tr>
<td>ABE 6990</td>
<td>Special Topics in Agricultural and Biological Engineering</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>ABE 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
</tr>
<tr>
<td>ABE 8000</td>
<td>Thesis Research/Thesis. Credit hours to be arranged; minimum of 6 hours required for degree</td>
<td></td>
</tr>
<tr>
<td>ABE 8911</td>
<td>Agricultural and Biological Engineering Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ABE 8921</td>
<td>Agricultural and Biological Engineering Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ABE 8931</td>
<td>Agricultural and Biological Engineering Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ABE 8990</td>
<td>Special Topics in Agricultural and Biological Engineering</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>ABE 9000</td>
<td>Dissertation Research/Dissertation. Credit hours to be arranged; minimum of 20 hours required for degree</td>
<td></td>
</tr>
</tbody>
</table>

The Department of Agricultural and Biological Engineering also offers the Master of Science degree in Biological Engineering and Doctor of Philosophy degree in Engineering; both programs are housed in the College of Engineering. See program information in the James Worth Bagley College of Engineering section of this publication.
The Department of Agricultural Economics offers a degree program leading to the Master of Science in Agriculture with a concentration in Agricultural Economics. This program stresses 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 Science in Agriculture with a concentration in Agricultural Economics program is designed for the student to begin graduate coursework 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, please visit the department’s website at: www.agecon.msstate.edu.

**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. A minimum TOEFL (Test of English as a Foreign Language) report of 575 PBT (233 CBT or 84 iBT) or an IELTS (International English Language Testing Systems) score of 7.0 or higher is required for all international students affected by this policy.

**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 may be dismissed from the M.S. program for making more than two grades below a B on courses on the student’s program of study. 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:

- EC 3113: Intermediate Macroeconomics
- EC 3123: Intermediate Microeconomics
- MA 1613: Calculus for Business & 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 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 8413: Game Theory. 3 hours
- AEC 8143: Agricultural Production Economics. 3 hours
- AEC 8123: Market Organization and Structure. 3 hours

**Remaining Courses**

- AEC 6233: Environmental Economics. 3 hours
- AEC 8843: Survey Design and Experimental Economics. 3 hours

**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 6 hours of thesis research/thesis (up to 6 of these hours may substitute for coursework 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 one-half of the total course credit hours, not including thesis research/thesis hours, on the program of study. In the non-thesis option, the student must take from 1 to 6 directed individual study hours toward a research paper (up to 6 of these hours may substitute for coursework 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 on the program of study.
The curriculum is designed as a lock-step sequence of 26 hours of core coursework. 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.

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 their research work to the satisfaction of the Agricultural Economics faculty.

Animal and Dairy Sciences
Dr. Mark Crenshaw, Interim Department Head
Dr. Peter Ryan, Graduate Coordinator
4025 Wise Center
Box 9815
Mississippi State, MS 39762
Telephone: 662-325-2802
E-mail: pryan@ads.msstate.edu

The Animal and Dairy Sciences program offers graduate study toward the Master of Science (thesis and non-thesis options) in Agriculture with a concentration in Animal Science and a Doctor of Philosophy in Agricultural Sciences with a concentration in Animal and Dairy Science. Master of Science and Doctor of Philosophy programs in Animal Nutrition; Food Science; Animal Physiology; and Genetics are also available through the interdepartmental programs (refer to the specific interdepartmental programs 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 all programs (Master of Science thesis and non-thesis option and Doctor of Philosophy). Individual faculty serving as major professors may have additional requirements for students they advise. Therefore, it is advisable that a prospective student contact faculty with whom he/she is interested in working to determine if they have additional admission requirements (i.e., GRE score, etc.). An international applicant is required to have a TOEFL (Test of English as a Foreign Language) score of 575 PBT (233 CBT or 84 iBT) or an IELTS (International English Language Testing Systems) score of 7.0 or higher to be considered for admission.

Provisional Admission—Provisional admission requirements may be indicated by the student’s major professor or imposed by the Office of the Graduate School in accordance with University admission policies.

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, in accordance with the guidelines of the Office of the Graduate School, and must include core courses as specified below (M.S. only).

Prerequisite and Core Courses—For the M.S. degree in Agriculture with a concentration in Animal and Dairy Sciences, the student must have completed or will be required to complete in addition to the graduate coursework, the following courses: Animal Breeding, Animal Nutrition, Animal Reproduction, Meats Processing, and an animal production species-specific course, or equivalent coursework, at the undergraduate or graduate level. For M.S. candidates in both the thesis and non-thesis options in Animal and Dairy Sciences, core courses as part of the program of study must include ST 8114, a graduate level biochemistry course (3 hours minimum), and a graduate level physiology course (preferably PHY/ADS 6000 or 8000 level).

Academic Performance
The Department of Animal and Dairy Sciences adheres to the academic performance standards of the Office of the Graduate School and CALS. Students are referred to these criteria for provisional admission, contingent admission, academic performance, and dismissal policies.

Completion Requirements
M.S. thesis and Ph.D. candidates are required by the Department of 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 the non-thesis M.S. program, the student is required to complete 30 hours of coursework as approved by his/her graduate committee, write a scholarly research paper (the topic and content to be approved by the student’s graduate committee), and complete an oral examination based on the coursework. For a Ph.D. candidate, an oral and written preliminary/comprehensive examination will be administered by the student’s graduate committee in accordance with the Office of the Graduate School guidelines prior to the submission or defense of dissertation research.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADS 6112</td>
<td>Equine Reproduction [Same as PHY 6112]</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 3503)</td>
<td>3 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 6243</td>
<td>Composition and Chemical Reactions of Foods (CH 1053 and 2503, or equivalent) [Same as FHN 6243]</td>
<td>3 hours</td>
</tr>
<tr>
<td>ADS 6313</td>
<td>Advanced Science of Muscle Foods [Same as FHN 4313/6313]</td>
<td>3 hours</td>
</tr>
<tr>
<td>ADS 6324</td>
<td>Beef Cattle Science (ADS 1114)</td>
<td>4 hours</td>
</tr>
<tr>
<td>ADS 6333</td>
<td>Equine Exercise Physiology (ADS 3232)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ADS 6433</td>
<td>Advanced Beef Cattle Production (ADS 1114, ADS 4324)</td>
<td>3 hours</td>
</tr>
<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 6632</td>
<td>Animal Biotechnology and Application of Molecular Biology (BIO 1504, ADS 4613, and BCH 3613 or consent of instructor)</td>
<td>2 hours</td>
</tr>
<tr>
<td>ADS 6814</td>
<td>Dairy Farm Management (ADS 1114)</td>
<td>4 hours</td>
</tr>
<tr>
<td>ADS 6823</td>
<td>Advanced Dairy Farm Management (ADS 4814)</td>
<td>3 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 BIO 3304 or equivalent) [Same as FHN 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>
</tr>
<tr>
<td>ADS 8453</td>
<td>Statistical Genetics (ST 8114, ADS 4123/6123) [Same as GNS 8453]</td>
<td>3 hours</td>
</tr>
<tr>
<td>ADS 8633</td>
<td>Homeostatic Regulation and Physiological Stress (PHY 6514 and PHY 8131, 8133, or consent of instructor) [Same as PHY 8633]</td>
<td>3 hours</td>
</tr>
<tr>
<td>ADS 8811</td>
<td>Advanced Seminar. 1 hour</td>
<td></td>
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<tr>
<td>ADS 8821</td>
<td>Advanced Seminar. 1 hour</td>
<td></td>
</tr>
<tr>
<td>ADS 8831</td>
<td>Advanced Seminar. 1 hour</td>
<td></td>
</tr>
<tr>
<td>ADS 8833</td>
<td>Dairy Farm Management (ADS 1114)</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

**Animal Nutrition**

An Interdisciplinary Curriculum

Dr. Brian Rude, Graduate Coordinator

4024 Wise Center
Box 9815
Mississippi State, MS 39762
Telephone: 662-325-2933
E-mail: brude@ads.msstate.edu

The graduate program in Animal Nutrition is an interdepartmental curriculum leading to a Master of Science in Agriculture with a concentration in Animal Nutrition or a Doctor of Philosophy in Agricultural Sciences with a concentration in Animal Nutrition. The student selects course offerings from Animal and Dairy Sciences; Poultry Science; Food Science, Nutrition, and Health Promotion; Wildlife and Fisheries; and Biochemistry.

**M.S. in Agriculture with a Concentration in Animal Nutrition**

**Admission Criteria**

Prerequisites for admission include a bachelor’s degree in Animal, Dairy or Poultry Sciences; Food Science, Nutrition, and Health Promotion; Fisheries or Aquatic Science; Biological or Physical Science with an adequate background in chemistry. A minimum of 3.00 quality point average on a 4.00 scale is required. The quality point average can be based on either overall undergraduate degree work or the last two years (60 semester hours) of undergraduate work. 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 an Animal Nutrition graduate program requirement. A statement of purpose and letters of recommendation are required of all applicants.

**Provisional Admission**—A student who has not fully met the requirements stipulated by the University and the graduate program for Animal Nutrition 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 for the first 9 hours of graduate-level courses on his or her program of study taken at Mississippi State University (courses with an S grade, transfer credits, or credits...
Program of Study
The Master of Science degree requires a minimum of 30 hours of graduate credit with 24 hours of coursework, half of which must be taken at the 8000 level or above, a research thesis, and thesis defense. The Animal Nutrition program does not offer a non-thesis M.S. degree. The student is required to take BCH 6603, BCH 6613, ST 8114, and ST 8214. The program must also contain at least 6 hours of thesis research and thesis. A minor is not required but if selected an additional 12 hours of credit and a committee member from the minor area are 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 at least two committee members, one of whom should be a member of the Animal Nutrition graduate faculty. Additional committee members may be included at the discretion of the major professor.

Ph.D. in Agricultural Sciences with a Concentration in Animal Nutrition

Program of Study
The doctoral program in Agricultural Sciences/Animal Nutrition has no course requirements; however, BCH 6603, BCH 6613, ST 8114, and ST 8214 are required if they were not completed during the student’s master’s degree. Additionally, a language or research skill requirement, a preliminary/comprehensive examination, and a final dissertation defense are required. 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 6 hours of statistics excluding ST 8114 and ST 8214; 6 hours in computer science; 6 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 four members including the major professor who must be a full member of the graduate Animal Nutrition faculty, one other member of the graduate Animal 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.

Departmental Representative/Title
Brian S. Baldwin, Professor, Plant and Soil Sciences
Alejandro Corzo, Associate Research Professor, Poultry Science
Mark A. Crenshaw, Extension Professor, Animal and Dairy Sciences
Steve Demarais, Professor, Wildlife and Fisheries
Stephanie R. Hill, Assistant Professor, Animal and Dairy Sciences
Jane A. Parish, Associate Extension/Research Professor, Animal and Dairy Sciences
Daniel Rivera, Assistant Research/Extension Professor, Animal and Dairy Sciences
Brian J. Rude, Professor, Animal and Dairy Sciences
Ty B. Schmidt, Assistant Professor, Animal and Dairy Sciences

Graduate Courses—Course prerequisites are noted in parenthesis.
ADS 6115 Animal Nutrition (CH 2503, CH 2501). 5 hours
FNH 6233 Medical Nutrition Therapy (FNH 2293 or consent of instructor). 3 hours
The graduate program in Animal Physiology is an interdisciplinary curriculum leading to a Master of Science in Agricultural Life Sciences with a concentration in Animal Physiology and/or Doctor of Philosophy degree in Life Sciences with a concentration in Animal Physiology. Course offerings are 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. A paper-based (PBT) TOEFL (Test of English as a Foreign Language) of 575 (233 CBT or 84 iBT) or an IELTS (International English Language Testing Systems) score of 7.0 or better is required of all international applicants. Letters of recommendation are required of all applicants.

**Provisional Admission**—A student recommended for provisional admission is required to achieve a 3.00 GPA on the first 9 hours of graduate courses in order to achieve regular status. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy 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 preliminary/comprehensive examination, a graduate student must maintain an overall B average in all graduate courses attempted after admission to the program.

**M.S. Program of Study**

The Master of Science degree requires a minimum of 30 hours of graduate credit (including 6 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 coursework required, half must be taken at the 8000 level. A minor is not required but if selected an additional 9 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.

Ph.D. Program of Study
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 3 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 Continuous 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 a Ph.D. candidate, a written and oral preliminary/comprehensive examination will be administered by the student’s graduate committee in accordance with Graduate School guidelines prior to the submission of defense of dissertation research.

General Information—The Animal Physiology graduate faculty is listed below. For additional information, contact the Graduate Coordinator, Box 9815, Mississippi State University, MS 39762 or by e-mail at ryan@cvm.msstate.edu. An application for admission should be submitted directly to the Office of the Graduate School, Box G, Mississippi State, MS 39762.

Faculty/Title/Department
Howard Chambers, Professor, Entomology
Janice E. Chambers, Professor, Basic Science, College of Veterinary Medicine
Timothy N. Chamblee, Associate Professor, Poultry Science
John Fuquay, Professor Emeritus, Animal and Dairy Sciences
Dean Jousan, Associate Extension Professor of Animal and Dairy Sciences
Jamie Larson, Assistant Professor, Animal and Dairy Sciences
Christopher McDaniel, Professor, Poultry Science
Erdogan Memili, Associate Professor, Animal and Dairy Sciences
Molly Nicodemus, Associate Professor, Animal and Dairy Sciences
F. David Peebles, Interim Department Head and Professor, Poultry Science
Peter L. Ryan, Professor and Graduate Coordinator, Animal and Dairy Sciences and Pathobiology and Population Medicine
Ty B. Schmidt, Assistant Professor, Animal and Dairy Sciences
Trent Smith, Assistant Professor, Animal and Dairy Sciences
Scott T. Willard, Professor, Animal and Dairy Sciences and Department Head, Biochemistry, Molecular Biology, Entomology and Plant Pathology
Rhonda Vann, Associate Research Professor of Animal and Dairy Sciences

Animal Physiology Courses—Course prerequisites are noted in parentheses.
PHY 6112 Equine Reproduction (same as ADS 6112). 2 hours
PHY 6114 Cellular Physiology [same as BIO 6114]. 4 hours
PHY 6335 Anatomy and Physiology of Insects (ENT 6154) [same as ENT 6335]. 5 hours
PHY 6514 Animal Physiology [same as BIO 6514]. 4 hours
PHY 6611 Practice in Physiology of Reproduction (ADS 6613 or taken concurrently) [same as ADS 6611]. 1 hour
PHY 6613 Physiology of Reproduction (BIO 1504 or VS 2014) [same as ADS 6613]. 3 hours
PHY 6623 Physiology of Lactation [VS 2013 or BIO 1504] [same as ADS 6623]. 3 hours
PHY 6843 Poultry Physiology [same as PO 6843]. 3 hours
PHY 7000 Directed Individual Study. 1-6 hours
PHY 8000 Thesis Research/Thesis. Credit hours to be arranged; minimum of 6 hours required for degree
PHY 8131 Endocrine Methods [same as ADS 8131]. 1 hour
PHY 8133 Endocrine Secretions [same as ADS 8133]. 3 hours
PHY 8243 Advanced Physiology of Reproduction (ADS 6613) [same as ADS 8243]. 3 hours
PHY 8333 Advanced Toxicology (ENT 6543 or elementary biochemistry) [same as ENT 8333]. 3 hours
PHY 8433 Bone, Muscle, and Fat Deposition in Animals (BCH 6613) [same as ADS 8433]. 3 hours
PHY 8623 Physiology of Digestion and Metabolism (CH 6523) [same as PO 8823]. 3 hours
PHY 8633 Homeostatic Regulations and Physiological Stress (PHY 8134 and BIO 6514) [same as ADS 8633]. 3 hours
PHY 8811-8841 Animal Physiology Seminar. 1 hour
PHY 8990 Special Topics in Physiology. 1-9 hours
PHY 9000 Dissertation Research/Dissertation. Credit hours to be arranged; minimum of 20 hours required for degree

Biochemistry, Molecular Biology, Entomology, and Plant Pathology
Dr. Scott Willard, Department Head
404 Dorman Hall
Box 9655
Mississippi State, MS 39762
Telephone: 662-325-2640
E-mail: swillard@bch.msstate.edu

The department offers graduate study leading to the Master of Science in Agricultural Life Sciences with a concentration in Biochemistry, Entomology, or Plant Pathology; the Doctor of Philosophy in Molecular Biology; the Doctor of Philosophy in Life Sciences with a concentration in Biochemistry, Entomology, or Plant Pathology. The department also participates in interdisciplinary programs leading to the Master of Science in Agricultural Life Sciences with a concentration in Animal Physiology or Genetics; the Master of Science in Agriculture with a concentration in Animal Nutrition; the Doctor of Philosophy in Life Sciences with concentrations in Animal Physiology or Genetics; the Doctor of Philosophy in Agricultural Sciences with a concentration in Animal Nutrition.

Admission Criteria
Prerequisites for admission include a bachelor’s or master’s degree in a physical or life science with a strong background in the program discipline of interest (biochemistry, molecular biology, entomology, or plant pathology). A graduate screening committee, composed of members of the Biochemistry, Molecular Biology, Entomology, and Plant Pathology faculty, screens all applicants. Final acceptance into a graduate program is contingent upon the availability of a suitable major professor. A minimum of 2.75 overall grade point average on a 4.00 scale is required for admission. The GRE general test is required. International students are required to have a TOEFL (Test of English as a Foreign Language) score of 500 PBT (173 CBT or 61 iBT) or an IELTS (International English Language Testing Systems) score of 5.5 (non-English speaking international students).

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 9 hours of graduate-level courses on their programs of study taken at Mississippi State University in order to achieve regular status. Courses

Applied Economics
An Interdisciplinary Program
Dr. Mike Highfield, Department Head
Dr. Randy Campbell, Graduate Coordinator
326 McCool Hall
Box 9580
Mississippi State, MS 39762
Telephone: 662-325-2341
E-mail: gsb@cobilan.msstate.edu
website: 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 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@cibilan.msstate.edu or phone 662-325-2341.
with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 is not attained, the provisional student may be dismissed from graduate study.

**Academic Performance**

Maintenance of an overall GPA of 3.00 or greater is expected for students enrolled in M.S. or Ph.D. programs in the department. The student is allowed only two Cs. Any third C or the first grade below C (a D or F) is grounds for dismissal.

**Completion Requirements**

The student must present an approved/defended thesis (M.S.), project report (M.S. non-thesis) or dissertation (Ph.D.) for completion of the respective program.

**Discipline-Specific Program Information**

For additional information, contact the respective Graduate Program Coordinator listed below under each degree program discipline.

**Biochemistry and Molecular Biology Programs**

**Dr. Din-Pow Ma, Graduate Coordinator**  
402 Dorman Hall  
Box 9655  
Mississippi State, MS 39762  
Telephone: 662-325-2640  
E-mail: dm1@ra.msstate.edu

**M.S. in Agricultural Life Sciences**

**Biochemistry Concentration**

**Program of Study Completion Requirements**

The program requires a minimum of 24 hours of graduate coursework including successful completion of BCH 6603 and BCH 6613 (prerequisites), BCH 6414, BCH 6804, BCH 8654 (students completing the split-level BCH core courses at MSU at the 4000-level are exempt from these classes and other approved courses will be substituted in consultation with the major professor and the student’s graduate committee), and two hours of Seminar credit (BCH 8101). The first formal seminar should be within the first 1.5 years the student is in residence. The final seminar will be a presentation of the final research results of the student. 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 directed individual study related to the specific interests and needs of the student.

The student’s Ph.D. graduate committee will consist of a total of at least five members with at least three of these members from the department faculty. 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/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 coursework is also adequate). The student must pass a final oral defense of the dissertation upon completion of the research program.

**Ph.D. in Life Sciences**

**Biochemistry Concentration**

**Program of Study Completion Requirements**

This program requires a minimum of 40 credit hours of coursework and at least 20 research hours above the baccalaureate degree (60 hours total), or if the student enters the program with an M.S. degree a required minimum of 40 hours past that degree utilizing a combination of coursework and research hours is expected (with a minimum of 20 hours of BCH 9000 – Dissertation Research). The program of study must include BCH 6603 and BCH 6613 (prerequisites), BCH 6414, BCH 6623 or BCH 8633, BCH 8654 or BCH 6804 (or equivalent BCH or Life Science-related coursework; students completing the split-level BCH core courses at MSU at the 4000-level are exempt from these classes, and other approved courses will be substituted in consultation with the major professor and the student’s graduate committee), and two hours of Seminar credit (BCH 8101). The first formal seminar should be within the first 1.5 years the student is in residence. The final seminar will be a presentation of the final research results of the student. 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 directed individual study related to the specific interests and needs of the student.

The student’s Ph.D. graduate committee will consist of a total of at least five members with at least three of these members from the department faculty. 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/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 coursework is also adequate). The student must pass a final oral defense of the dissertation upon completion of the research program.
Ph.D. in Molecular Biology
Program of Study/Completion Requirements

The Molecular Biology Ph.D. degree is primarily a research degree. However, a minimum of 30-40 hours of coursework 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 30-40 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. The program of study must include BCH 6603 and BCH 6613 (prerequisites), BCH 6414, BCH 6713 or 8643, and BCH 8654 (or equivalent BCH or Life Science-related coursework; students completing the split-level BCH core courses at MSU at the 4000-level are exempt from these classes, and other approved courses would be substituted in consultation with the major professor and the student's graduate committee), and 2 hours of Seminar credit (BCH 8101). The first formal seminar should be within the first 1.5 years the student is in residence. The final seminar will be a presentation of the final research results of the student. 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 directed individual study related to the specific interests and needs of the student. Such enrichment courses or technical proficiencies could include (but are not limited to) statistics, biocomputing, electron microscopy, plant transformation, tissue culture, production of monoclonal antibodies, etc.

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 coursework is also adequate). The student must pass a final oral defense of the dissertation upon completion of the research program.

Graduate Courses—Course prerequisites are noted in parentheses.

- BCH 6013 Principles of Biochemistry (CH 2503, BIO 1504). 3 hours
- BCH 6113 Essentials of Molecular Genetics. 3 hours
- BCH 6253 Nutritional Biochemistry of Foods (CH 2503 or equivalent with instructor's consent. FNHP and BCH students only). 3 hours
- BCH 6333 Advanced Forensic Science (BCH 4013/6013 or BCH 4603 and BCH 4613/6613 or consent of instructor). 3 hours
- BCH 6414 Protein Methods (Coregistration in BCH 4603/6603). 4 hours
- BCH 6503 Scientific Communication Skills (Graduate standing). 3 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
- BCH 6713 Molecular Biology (coregistration in BCH 4613/6613). 3 hours
- BCH 6804 Molecular Biology Methods (coregistration in BCH 4613/6613). 4 hours
- BCH 6990 Special Topics in Biochemistry. 1.9 hours
- BCH 7000 Directed Individual Study. 1.6 hours
- BCH 8000 Thesis Research/Thesis. Credit hours to be arranged; minimum of 6 hours required for degree
- 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 4613/6613). 3 hours
- BCH 8623 Genomes and Genomics (BCH 4113/6113 or BCH 4713/6713 or BCH 8643 or consent of instructor). 3 hours
- BCH 8631 Topics in Genomics (PSS/BCH 8623 or BCH 4713/6713 or BCH 8643 or consent of instructor). 1 hour
- BCH 8633 Enzymes (BCH 4613/6613). 3 hours
- BCH 8643 Molecular Genetics (PO 3103 or BIO 3103 and coregistration in BCH 4613/6613). 3 hours
- BCH 8654 Intermediary Metabolism (BCH 4613/6613). 4 hours
- BCH 8990 Special Topics in Biochemistry. 1.9 hours
- BCH 9000 Dissertation Research/Dissertation. Credit hours to be arranged; minimum of 20 hours required for degree
Entomology and Plant Pathology Programs
Dr. Michael Caprio, Graduate Coordinator
103 Clay Lyle Entomology Complex
Box 9775
Mississippi State, MS  39762
Telephone: 662-325-2085
E-mail: mcaprio@entomology.msstate.edu

M.S. in Agricultural Life Sciences
Entomology or Plant Pathology Concentration
Program of Study/Completion Requirements
Students in this degree program and discipline concentrations must complete 24 credit hours in coursework above the baccalaureate degree; at least half of the coursework must be at the 8000-level or higher. The remainder of credit hours to be completed would include research thesis hours (a minimum of 6 hours is required on the program of study.) The program of study must include 2 credit hours of Seminar (EPP 8111 and 8121).

Ph.D. in Life Sciences
Entomology or Plant Pathology Concentration
Program of Study/Completion Requirements
This program requires 60 credit hours of coursework above the baccalaureate degree. The program of study must include 2 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.

The student’s Ph.D. graduate committee will consist of a total of at least five members with at least three of these members from the department faculty. The student will submit a research proposal to the committee.

The student must pass written and oral preliminary examinations dealing with his/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 coursework is also adequate). The student must pass a final oral defense of the dissertation upon completion of the research program.

Graduate Courses:
EPP 6113 Principles of Plant Pathology (BIO 1203 or consent of instructor). 3 hours
EPP 6152 Taxon – Fungi Imperfecti (Consent of instructor). 2 hours
EPP 6154 General Entomology. 4 hours
EPP 6162 Taxon – Ascomycetes (Consent of instructor). 2 hours
EPP 6163 Plant Disease Management (EPP 3113). 3 hours
EPP 6164 Insect Taxonomy (EPP 4154). 4 hours
EPP 6172 Taxon – Basidiomycetes (Consent of instructor). 2 hours
EPP 6173 Medical and Veterinary Entomology (EPP 4154 or consent of instructor). 2 hours
EPP 6182 Taxon – Oom and Zyg (Consent of instructor). 2 hours
EPP 6214 Disease of Crops (EPP 3113 or 3124). 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 6523 Turfgrass Diseases (EPP 3113 or 3124). 3 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 Thesis Research/Thesis. Credit hours to be arranged; minimum of 6 hours required for degree
EPP 8111 Seminar. 1 hour
EPP 8113 Plant Nematology (EPP 3113). 3 hours
EPP 8121 Seminar. 1 hour
EPP 8123 Plant Virology (EPP 4113/6113, BIO 4114/6114). 3 hours
EPP 8133 Plant Virology (EPP 4113, EPP 6163 or consent of instructor). 3 hours
EPP 8143 Advanced Plant Pathology I (EPP 3113). 3 hours
EPP 8144 Transmission Electron Microscopy (Consent of instructor) [same as BIO 8014]. 4 hours
EPP 8173 Clinical Plant Pathology (EPP 3113 and EPP 4114/6114). 3 hours
EPP 8223 Scanning Electron Microscopy (Graduate standing and permission of instructor). 3 hours
EPP 8253 Advanced Plant Pathology II (EPP 4113/6113, BIO 4214/6214, or consent of instructor). 3 hours
EPP 8272 Empirical Research in Theory and Practice. 2 hours
EPP 8333 Advanced Toxicology EPP4543/6543 or BCH 5615 [same as PHY 8333]. 3 hours
EPP 8483 Ecological Genetics (PO 3103 or equivalent and BIO 4113/6113 or consent of instructor. 3 hours
Population Ecology of Insects (A course in general ecology). 4 hours
Special Topics in Entomology or Plant Pathology. 1-9 hours
Dissertation Research/Dissertation. Credit hours to be arranged; minimum of 20 hours required for degree.

Food Science, Nutrition and Health Promotion

Dr. Juan L. Silva, Interim Department Head and Graduate Coordinator
Herzer Building
Box 9805
Mississippi State, MS 39762
Telephone: 662-325-3200
Fax: 662-325-8728
E-mail: jls46@msstate.edu
website: http://www.fsnhp.msstate.edu/

Graduate study is offered in the Department of Food Science, Nutrition and Health Promotion leading to a Master of Science degree in Food Science, Nutrition and Health Promotion with concentrations in Food Science and Technology; Nutrition; or Health Promotion. The Doctor of Philosophy degree in Food Science, Nutrition and Health Promotion is also offered through this department with concentrations in Food Science and Technology or Nutrition.

Graduate assistantships may be available. For information, contact the Department Head, Department of Food Science, Nutrition and Health Promotion, Box 9805, Mississippi State, MS 39762-9805 or visit the departmental website: http://www.fsnhp.msstate.edu/.

M.S. in Food Science, Nutrition and Health Promotion

Food Science and Technology Concentration
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 and Health Promotion and allied areas such as biochemistry, microbiology, animal and dairy sciences, and other disciplines. 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. Students from other disciplines may be required to take leveling courses generally not to exceed 15 semester hours.

Nutrition Concentration
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 and Health Promotion; Statistics; and Biochemistry.

The Dietetic Internship 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 6 hours of coursework in Food Science, Nutrition and Health Promotion with an emphasis in nutrition. The MSU Dietetic Internship 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, a graduate is prepared for the Registration Examination of the Commission on Dietetic Registration and successful entry-level practice. Students may also pursue a M.S. degree at the same time.

The Mississippi State University Dietetic Internship 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 at MSU. For additional information contact Dietetic Internship Program Director, Box 9805, Mississippi State, MS 39762-9805 or visit the departmental website: http://www.fsnhp.msstate.edu/.

Health Promotion Concentration
A Master of Science degree in Food Science, Nutrition and Health Promotion with a concentration in Health Promotion is available. This 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 take the Graduate Record Examination (GRE). International students are required to have a minimum TOEFL (Test of English as a Foreign Language) score of 550 PBT (213 CBT or 79 iBT) or an IELTS (International English Language Testing Systems) score of 6.5.

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 students must have as his/her initial objective advancement to regular status. A provisional student must receive a 3.00 GPA on the first 9 hours of graduate-level courses on the program of study taken at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement) after admission to the program 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
The Master of Science degree in Food Science, Nutrition and Health Promotion requires a minimum number of 30 hours of graduate credit, a research thesis, and a final defense. Of the 30 hours, 24 must be coursework, half of which must be at the 8000 level. If a minor is approved, at least 9 hours of coursework in the area are required. The 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 at least two other committee members. The committee has to be composed of a majority in the student’s concentration (FST, NTR, HP). A committee member from the minor area (if a minor is sought) is 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 communication. At the conclusion of research (if required in that concentration), the student will present her/his research work in the form of a seminar to an open audience and to the committee as part of the examination requirements.

Food Science and Technology Concentration
The Master of Science in Food Science, Nutrition and Health Promotion with a Food Science and Technology concentration requires a minimum of 30 hours of graduate credit (including 6 hours of research/thesis), a research thesis, and a final defense. Core course requirements include graduate courses in biochemistry, statistics, and a graduate seminar. In addition, courses in food chemistry, food microbiology, and food preservation are required unless taken in the undergraduate program. The courses are to be determined by the major professor and graduate committee and approved by the committee and the graduate coordinator. Applicants with knowledge in one or more of these areas may be exempt from some course requirements if their academic record confirms successful previous work.

Nutrition Concentration
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 6 hours of research/thesis), a research thesis, and a final defense. Core course requirements include two graduate biochemistry courses, such as BCH 6603 and a graduate statistics course, such as ST 8114, KI 8313, CVM 8143, EPY 6214 or AIS 9583. 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 at least two committee members.

Health Promotion Concentration
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 6 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 6 thesis research/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 two other graduate faculty members.

The following courses are required: FNH 8513 Theory and Practice of Health Education; FNH 8523 Health Promotion Techniques; FNH 8553 Behavioral Epidemiology; FNH 8613 Design and Administration of Health Promotion Programs; and FNH 8653 Implementation and Evaluation of Health Promotion Programs.

Ph.D. in Food Science, Nutrition and Health Promotion
A Doctor of Philosophy degree is offered within the Department of Food Science, Nutrition and Health Promotion with concentrations in Food Science and Technology or Nutrition. Graduate assistantships may be available. To secure additional information contact the Graduate Coordinator, Department of Food Science, Nutrition and Health Promotion, Box 9805, Mississippi State, MS 39762-9805. The departmental website can be accessed at http://www.fsnhp.msstate.edu/.

Food Science and Technology Concentration
A student pursing the Ph.D. degree in Food Science, Nutrition and Health Promotion with a concentration in Food Science and Technology selects courses from Food Science, Nutrition and Health Promotion and allied areas such as biochemistry, microbiology, animal and dairy sciences, and other disciplines. 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 may be required to take leveling courses generally not to exceed 15 semester hours.

Nutrition Concentration
A student pursing the Ph.D. degree in Food Science, Nutrition and Health Promotion with a concentration in Nutrition selects courses from Food Science, Nutrition and Health Promotion and in Biochemistry and Statistics. A Master of Science in Nutrition or Health Promotion will be considered to meet the prerequisites for study towards a doctorate. A student from other disciplines may 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, Nutrition and Health Promotion, 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 submit Graduate Record Examination (GRE) verbal, quantitative, and writing scores. International students are required to have a minimum TOEFL (Test of English as a Foreign Language) score of 550 PBT (213 CBT or 79 iBT) or an IELTS (International English Language Testing Systems) score of 6.5.

Program of Study/Completion Requirements
The minimum number of coursework hours for a Ph.D. student varies according to the specific requirements of the department and the student’s needs but usually requires a minimum of 60 hours of coursework beyond the B.S. degree. 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 hours of graduate coursework in the chosen discipline. A committee member from the minor area is required.

Food Science and Technology Concentration
Students must demonstrate competence in at least, but not limited to, the following areas: Food Microbiology, Food Chemistry, Nutrition, Food Processing, Statistics (beyond Statistical Methods), and Biochemistry (decided by graduate committee).

Nutrition Concentration
Students must demonstrate competence in at least but not limited to the following areas: Nutrition, Nutritional Assessment, Biochemistry, Statistics, and Research Methods.

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 to an open audience and to the committee as part of the examination requirement.
<table>
<thead>
<tr>
<th>Department Representatives/ Title/Concentration</th>
<th>Courses</th>
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<tbody>
<tr>
<td>C. A. Briley, Assistant Professor/Extension Specialist, Community Nutrition (Nutrition)</td>
<td>FNH 6233 Medical Nutrition Therapy (FNH 4263/6263 or consent of instructor). 3 hours</td>
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<tr>
<td>S. H. Byrd, Associate Professor, Food Science, Nutrition and Health Promotion (Nutrition)</td>
<td>FNH 6241 Applied Food Chemistry (BCH 3613 and prior credit for or current enrollment in FNH 4243/6243). 1 hour</td>
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<tr>
<td>B. J. Fountain, Associate Extension Professor, Food Science, Nutrition and Health Promotion (Nutrition)</td>
<td>FNH 6243 Composition and Chemical Reactions of Foods (CH 1053 and CH 2503 or equivalent) [same as ADS 6243]. 3 hours</td>
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<tr>
<td>W. T. Gillis, Lecturer, Dairy Foods and Quality Assurance (Food Science and Technology)</td>
<td>FNH 6253 Nutritional Biochemistry of Foods (CH 2503 or equivalent with consent of instructor) [same as BCH 6253]. 3 hours</td>
</tr>
<tr>
<td>Z. Z. Haque, Professor, Nutritional Biochemistry &amp; Food System Functionality (Food Science and Technology)</td>
<td>FNH 6263 Nutrition and Chronic Disease (FNH 2293, FNH 4253, or consent of instructor) [same as HS 6263]. 3 hours</td>
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<tr>
<td>A. F. Hood, Extension Professor &amp; Food Technologist (Food Science and Technology)</td>
<td>FNH 6273 Nutrition Assessment (BCH 3613 and FHN 4233 or equivalent). 3 hours</td>
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<tr>
<td>B. P. Hunt, Professor, Health Education and Health Promotion (Health Promotion)</td>
<td>FNH 6274 Advanced Food Service Management (FNH 3274, FHN 4283). 4 hours</td>
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<tr>
<td>T.J. Kim, Assistant Professor, Food Safety, Food Biochemistry and Molecular Food Microbiology (Food Science and Technology)</td>
<td>FNH 6283 Purchasing Food and Equipment for Foodservice Systems. 3 hours</td>
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<tr>
<td>J. M. Martin, Assistant Professor, Food Science, Nutrition and Health Promotion (Food Science and Technology)</td>
<td>FNH 6293 Vitamins, Minerals and Supplements (CH 2503 or equivalent with consent of instructor). 3 hours</td>
</tr>
<tr>
<td>W. B. Mikel, Professor, Food Science, Nutrition and Health Promotion (Food Science and Technology)</td>
<td>FNH 6313 Advanced Science of Muscle Foods [Same as ADS 4313/6313]. 3 hours</td>
</tr>
<tr>
<td>R. Nannapaneni, Assistant Professor, Food Safety and Food Microbiology (Food Science and Technology)</td>
<td>FNH 6314 Introduction to Meat Science. 4 hours</td>
</tr>
<tr>
<td>M. W. Schilling, Associate Professor, Food Chemistry, Muscle Foods, and Sensory Science (Food Science and Technology)</td>
<td>FHN 6333 Food Law (Consent of instructor). 3 hours</td>
</tr>
<tr>
<td>J. L. Silva, Professor, Interim Head, and Graduate Coordinator, Food Processing and Safety (Food Science and Technology)</td>
<td>FHN 6353 Nutrition/Life Cycle [BCH 4253/6253 or consent of instructor] [same as HS 4353/6353]. 3 hours</td>
</tr>
<tr>
<td>D. K. Tidwell, Associate Professor, Food Science, Nutrition and Health Promotion (Nutrition)</td>
<td>FHN 6373 Career Skills in FNH. 3 hours</td>
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<tr>
<td>J. B. Williams, Assistant Professor, Muscle Foods (Food Science and Technology)</td>
<td>FHN 6393 Prevention and Control of Disease. 3 hours</td>
</tr>
<tr>
<td>R. D. Williams, Assistant Professor, Health Education and Health Promotion (Health Promotion)</td>
<td>FHN 6414 Microbiology of Foods [BCH 3404] [same as BCH 614]. 4 hours</td>
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<tr>
<td>FHN 6114 Analysis of Food Products (CH 2503). 4 hours</td>
<td>FHN 6513 Poultry Processing [Same as PO 6513]. 3 hours</td>
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<tr>
<td>FHN 6123 Fermented Foods Processing (BIO 3304). 3 hours</td>
<td>FHN 6573 Food Engineering Fundamentals (MA 1713, PH 1123 or consent of instructor). 3 hours</td>
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<tr>
<td>FHN 6143 Dairy Foods Processing. 3 hours</td>
<td>FHN 6583 Food Preservation Technology [same as PSS 4583/6583]. 3 hours</td>
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<tr>
<td>FHN 6153 Food Plant Management (Consent of instructor). 3 hours</td>
<td>FHN 6593 New Food Product Development. 3 hours</td>
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<tr>
<td>FHN 6164 Quality Assurance of Food Products (BIO 3304). 4 hours</td>
<td>FHN 6613 Seafood Processing. 3 hours</td>
</tr>
<tr>
<td>FHN 6173 Food Packaging (Consent of instructor). 3 hours</td>
<td>FHN 6990 Special Topics in Food Science and Technology. 1-9 hours</td>
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<tr>
<td>FHN 6193 Social and Cultural Aspects of Food. 3 hours</td>
<td>FHN 7000 Directed Individual Study</td>
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<td>FHN 6223 Sports Nutrition (FNH 2293 or consent of instructor). 3 hours</td>
<td>FHN 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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<td>FHN 8111-8141 Food Science Seminar. 1 hour</td>
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<td></td>
<td>FHN 8113 Advanced Food Microbiology (FNH/BIO 4414/6414). 3 hours</td>
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<td></td>
<td>FHN 8143 Advanced Food Chemistry (FNH 4243/6243). 3 hours</td>
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</table>
An opportunity is offered to the student who wishes to work toward a degree in Genetics. MSU offers a Master of Science degree in Agricultural Life Sciences with a concentration in Genetics and a Doctor of Philosophy in 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**

Minimum required TOEFL (Test of English as a Foreign Language) score: of 500 PBT (173 CBT or 61 iBT) or an IELTS (International English Language Testing Systems) score of 5.5. A written cooperative agreement with a major advisor prior to admission is essential.

**Provisional Admission**—A student who has not fully met the requirements stipulated by the University and the appropriate department for admission to graduate (GPA 2.75) may be granted permission 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 9 hours of graduate-level courses on the program of study taken at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be use to satisfy this requirement) 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 retake 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. Repeated 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**—Individuals with a Bachelor of Science in the biological or physical sciences will be considered.

**M.S. Program of Study/Completion Requirements**
A comprehensive exam, 24 total hours of coursework, and a thesis (minimum of 6 hours) are required for completion of the thesis degree. A comprehensive exam and 30 total hours of coursework are required for the non-thesis degree. Specific courses and a graduate seminar class may be required as part of the 6 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.

**Ph.D. Program of Study/Completion Requirements**
Written preliminary and oral comprehensive examinations, a dissertation, and coursework designated by the student’s graduate committee, including 20 Research/Dissertation hours, are required for the doctor’s degree.

**Graduate Courses**—Course prerequisites are noted in parentheses.

**Genetics:**
- GNS 6123 Animal Breeding (PO 3103) [same as ADS 6123]. 3 hours
- GNS 6133 Human Genetics (same as BIO 4133/6133). 3 hours
- GNS 6713 Molecular Biology (BCH 4613/6613) [same as BCH 4713/6713]. 3 hours
- GNS 6804 Biochemical Methods (BCH 4613/6613) [same as BCH 4805/6805]. 5 hours
- GNS 6990 Special Topics in Genetics. 1-9 hours
- GNS 7000 Directed Individual Study. 1-6 hours
- GNS 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
- GNS 8143 Biometrical Genetics in Plant Breeding [same as PSS 8143]. 3 hours
- GNS 8453 Statistical Genetics [same as PSS 8453]. 3 hours
- GNS 8643 Molecular Genetics (PO 3103 or BIO 3103 and coregistration in BCH 4613/6613) [same as BCH 8643 and PHY 8643]. 3 hours
- GNS 8961 Nobel Topics in Physiology/Medicine and Chemistry (Graduate standing and consent of instructor) [Same as CVM 8961 and FO 8961]. May be repeated three times for credit. 1 hour
- GNS 8990 Special Topics in Genetics. 1-9 hours
- GNS 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

**Department Representative/Title**
- B. S. Baldwin Professor, Plant and Soil Sciences
- M. A. Caprio Assistant Professor, Entomology
- D. J. Chevalier Assistant Professor, Biological Sciences
- W. J. Diehl Professor, Biological Sciences
- D. M. Gordon Assistant Professor, Biological Sciences
- L. Hanson Associate Professor, Veterinary Medicine
- J. N. Jenkins Director, USDA-ARS
- Din-Pow Ma Professor, Biochemistry
- J. C. McCarty, Jr. Research Agronomist, USDA-ARS
- Erdogan Memili Associate Professor, Animal and Dairy Sciences
- E. D. Peebles Professor, Poultry Science
- G. T. Pharr Assistant Professor, Veterinary Medicine
- N. Reichert Professor, Plant and Soil Sciences
- D. E. Rowe Professor, Plant and Soil Sciences, Experimental Statistics
- T. Smith Assistant Professor, Animal and Dairy Sciences
- T. P. Wallace Associate Professor, Plant and Soil Sciences
- W. P. Williams Research Geneticist, USDA-ARS
- D. A. Wise Professor, Biological Sciences
The Agricultural Information Science and Education Program in the School of Human Sciences offers graduate courses leading to the following degrees:

1) Master of Science in Agricultural and Extension Education with a Leadership or Teaching emphasis

2) Doctor of Philosophy in Agricultural Sciences with a concentration in Agricultural and Extension Education

**Admission Criteria**

To obtain admission to the graduate program, the applicant must meet all the general requirements of the Office of the Graduate School. A student applying to the Master of Science teacher certification option must have an undergraduate degree in an agricultural science and submit GRE 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 for the doctoral degree must have 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 9 hours of graduate-level courses on the program of study taken at Mississippi State University in order to achieve regular status. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy 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.

**M.S. Program of Study/Completion Requirements**

A minimum of 30 hours of coursework 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. Students wishing to complete a thesis must take at least 6 credit hours of research/thesis (6 of these credit hours substitute for coursework hours) and an approved statistics course.

The required courses for the leadership emphasis are: AIS 8803 or AIS 8703, AIS 8403, AIS 8503, AIS 8413, AIS 8801, and AIS 8263 or AIS 8203. The remaining courses in the leadership option 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 teaching emphasis may be required to take 3-6 additional hours of prerequisite coursework. Specific course requirements for the teaching option are EPY 6033 or AIS 8693, EDX 8173, AIS 8503, AIS 8403, AIS 6113, AIS 6403, 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 coursework 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 cannot 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 non-thesis option. A student in the thesis option must pass a final thesis defense and submit the thesis.

Ph.D. Program of Study/Completion Requirements

The minimum requirement for the Doctor of Philosophy (Ph.D.) degree 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 30-36 hours of graduate credit in Agricultural and Extension Education (AIS 8593, AIS 8693, AIS 8243, AIS 8513, and AIS 8413 are required), 16 graduate credits in statistics, research, and evaluation (AIS 8803, AIS 8703, AIS 9583, EPY 8214, and EPY 9213 are required), 12-18 graduate credits in a minor or supporting area, 0-12 graduate elective credits, and 20 credit hours of dissertation research/dissertation. Students must pass a written and oral comprehensive examination in both the major and minor/supporting area. To be eligible for the preliminary/comprehensive examination, a graduate student must have a 3.00 GPA on all graduate courses taken after admission to the degree program. 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 preliminary/comprehensive 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.

Upon the recommendation of the major professor or the 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. The College of Agriculture and Life Sciences defines “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 director. If upheld there, the student may appeal to the dean of the college.

Prerequisites and Core Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 6103</td>
<td>Objectives and Procedures of Programs in Agricultural Information Science and Education. 3 hours</td>
</tr>
<tr>
<td>AIS 6113</td>
<td>Methods of Teaching Agriscience (AIS 4203/6203 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>AIS 6203</td>
<td>Applications of Computer Technology to Agricultural Information Science and Education. 3 hours</td>
</tr>
<tr>
<td>AIS 6303</td>
<td>Applications of Information Technologies in Agricultural Learning Systems. 3 hours</td>
</tr>
<tr>
<td>AIS 6403</td>
<td>Development of Youth Programs. 3 hours</td>
</tr>
<tr>
<td>AIS 6443</td>
<td>Vo-Ed Curricula and Techniques of Teaching the Rural Disadvantaged. 3 hours</td>
</tr>
<tr>
<td>AIS 6453</td>
<td>Cooperative Programs in Occupations Served by Agricultural Information Science and Education. 3 hours</td>
</tr>
<tr>
<td>AIS 6503</td>
<td>International Agricultural Education. 3 hours</td>
</tr>
<tr>
<td>AIS 6990</td>
<td>Special Topics in Agricultural Information Science and Education. 1-9 hours</td>
</tr>
<tr>
<td>AIS 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
</tr>
<tr>
<td>AIS 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
</tr>
</tbody>
</table>
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 8413  Method of Planned Change in Agricultural and Extension Education. 3 hours
AIS 8503  Program Planning and Development in Agricultural Information Science and Education. 3 hours
AIS 8513  Volunteer Development in Agricultural and Extension Education. 3 hours
AIS 8523  Teaching Out-of-School Groups in Agricultural Information Science and Education. 3 hours
AIS 8593  Historical Foundations of Agriculture and Human Science. 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 8693  Philosophical Foundations of Agriculture and Human Sciences. 3 hours
AIS 8703  Evaluation of Agricultural Information Science and Education Programs. 3 hours
AIS 8801  Graduate Professional Seminar in AIS. 1 hour
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  Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree
AIS 9583  Analysis and Interpretation of Data in Agriculture and Extension Education Research (permission of instructor). 3 hours

Gerontology Certificate
An Interdisciplinary Program
Dr. Lynne Cossman,
Graduate Coordinator
289 Bowen Hall
Box C
Mississippi State, MS 39762
Telephone: 662-325-7880
E-mail: cossman@soc.msstate.edu

The graduate-level Gerontology certificate 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 9 hours of specified coursework, 6 hours of approved electives, and 3 hours of research or directed individual study. For those students earning the certification in conjunction with an advanced degree in such disciplines as sociology, psychology, counseling, etc., the program would also constitute a gerontology concentration within the respective discipline.

For further information, contact Dr. Lynne Cossman, Coordinator, Graduate-Level Gerontology Certificate, 289 Bowen Hall, Box C, Mississippi State, MS 39762, 662-325-7880.

Requirements include 18 credit hours.
At least three of the following:
ABCDE 6513  Dynamics of Aging. 3 hours
COE 6713  Issues in Aging. 3 hours
COE 8813  Counseling Elderly Clients. 3 hours
HS 6863  Consumer Aspects of Aging. 3 hours
HS 6403  Introduction to Gerontology. 3 hours
HS 6813  Adult Development: The Middle Years. 3 hours
PE 8153  Wellness and Aging. 3 hours
PSY 6983  Psychology of Aging. 3 hours
SO 6413  Aging and Retirement in American Society. 3 hours
SO 6433  Sociology of Death and Dying. 3 hours

Up to two of the following (may include courses from above list):
HS/FNH/NTR 6353  Nutrition Throughout the Life Cycle. 3 hours
HS 6333  Families, Legislation, and Public Policy. 3 hours
FNH/NTR 8243  Community Nutrition. 3 hours
PSY 8313  Developmental Psychology. 3 hours
SO 6423  Health and Society. 3 hours
------  Directed Individual Study/Readings Course in Gerontology. 3 hours
The School of Human Sciences graduate courses may be used for a minor or for selected certificates in Human Sciences in cooperation with other degree programs. Areas of emphasis are available in the following program areas in Human Sciences: apparel, textiles and merchandising; and human development and family studies. The School also participates in the graduate Gender Studies Certificate by offering HS 6313, HS 6403, and HS 6513; and the Gerontology Certificate by offering HS 6353, HS 6333, HS 6403, 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, by mail at Box 9745, Mississippi State, MS 39762-9745 or by e-mail at jctaylor@humansci.msstate.edu.

**Graduate Courses**—Course prerequisites are noted in parentheses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Prerequisites</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 6313</td>
<td>Family Resource Management</td>
<td>Junior/senior writing or consent of instructor</td>
<td>3 hours</td>
</tr>
<tr>
<td>HS 6323</td>
<td>Consumer Issues and Policy</td>
<td>HS 3303 or consent of instructor</td>
<td>3 hours</td>
</tr>
<tr>
<td>HS 6333</td>
<td>Families, Legislation and Public Policy</td>
<td>Junior/senior writing or consent of instructor</td>
<td>3 hours</td>
</tr>
<tr>
<td>HS 6343</td>
<td>Apparel Design II</td>
<td>HS 1533 or consent</td>
<td>3 hours</td>
</tr>
<tr>
<td>HS 6353</td>
<td>Nutrition throughout the Life Cycle</td>
<td>BIO 4253/6253</td>
<td>3 hours</td>
</tr>
<tr>
<td>HS 6403</td>
<td>Introduction to Gerontology</td>
<td>HS 1813 and junior/senior writing, or consent of instructor</td>
<td>3 hours</td>
</tr>
<tr>
<td>HS 6424</td>
<td>Teaching Methods in Agricultural and Human Sciences</td>
<td></td>
<td>4 hours</td>
</tr>
<tr>
<td>HS 6440</td>
<td>Workshop in Human Sciences</td>
<td>1-3 hours</td>
<td></td>
</tr>
<tr>
<td>HS 6513</td>
<td>Social-Psychological Aspects of Clothing</td>
<td>3 hours sociology or 3 hours psychology</td>
<td>3 hours</td>
</tr>
<tr>
<td>HS 6573</td>
<td>Creative Design Techniques</td>
<td>HS 1533 or consent of instructor</td>
<td>3 hours</td>
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<tr>
<td>HS 6583</td>
<td>Entrepreneurship for Human Sciences</td>
<td></td>
<td>3 hours</td>
</tr>
<tr>
<td>HS 6710</td>
<td>Study Tour</td>
<td>1-3 hours</td>
<td></td>
</tr>
<tr>
<td>HS 6733</td>
<td>Computer-Aided Design</td>
<td>3 hours</td>
<td></td>
</tr>
<tr>
<td>HS 6803</td>
<td>Parenting</td>
<td>HS 1813 and junior/senior writing class, or consent of instructor</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

**Landscape Architecture**

Prof. Sadik C. Artunc, Department Head
Prof. Michael Seymour, Graduate Coordinator
Landscape Architecture Building
Box 9725
Mississippi State, MS 39762
Telephone: 662-325-3012
E-mail: ms641@msstate.edu

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 emphasis: 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.

**Admission**
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 (Test of English as a Foreign Language) score of 600 PBT (250 CBT or 100 iBT) or an IELTS (International English Language Testing Systems) score of 7.5. 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 coursework 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. 2 hours
- **LA 8711** Seminar in Watershed Planning and Management. 1 hour
- **LA 8522** Landscape Architecture Studio II. 2 hours
- **LA 8721** Seminar in Landscape Management. 1 hour
- **LA 8532** Landscape Architecture Studio III. 2 hours
- **LA 8731** Seminar in Community Based Planning. 1 hour
- **LA 8741** Seminar in Landscape Architecture Thesis. 1 hour
- **LA 8000** Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
- **LA 8613** Research Methods in Landscape Architecture. 3 hours
- **ST 8114** Statistical Methods. 4 hours

**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 course 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.

**Plant and Soil Sciences**

**Dr. J. Mike Phillips, Department Head**

**Dr. William L. Kingery, Graduate Coordinator**

117 Dorman Hall
Box 9555
Mississippi State, MS 39762
Telephone: 662-325-2311
E-mail: wkingery@pss.msstate.edu

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 Agricultural Science with a concentration 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, Molecular Biology, Crop Modeling,
Agronomy, Soil Science, Crop Physiology, Weed Science, Turfgrass Science, Remote Sensing, and Horticulture. 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 in mathematics and statistics, biology, chemistry, biochemistry, remote sensing, etc., as well as agronomic, horticultural, and weed science 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. Requests for additional information should be addressed to Head of the department of Plant and Soil Sciences, Box 9555, Mississippi State, MS 39762.

**Departmental Admission Criteria**

**M.S. in Agriculture and Ph.D. in Agricultural Science with concentrations in Agronomy, Horticulture, or Weed Science:**
- **GPA**—For Master of Science: Agronomy 2.75; Horticulture 2.75; Weed Science 3.00. For Doctor of Philosophy: Agronomy 3.00; Horticulture 3.00; Weed Science 3.25 on graduate work
- **TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing Systems) score**—
  - **Agronomy**: TOEFL score of 500 PBT (173 CBT; 61 iBT) or IELTS score of 5.5
  - **Horticulture**: TOEFL score of 500 PBT (173 CBT; 61 iBT) or IELTS score of 5.5
  - **Weed Science**: TOEFL score of 550 PBT (213 BT; 79 iBT) or IELTS score of 6.5
- **GRE**—Weed Science requires submission of GRE scores.

**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 9 hours of graduate-level courses taken at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement). If a GPA of 3.00 is not attained, the provisional student may be dismissed from the graduate program.

**Program of Study**

**General Departmental Requirements**

**M.S.**—The minimum number of credit hours required is 30, with 12 credit hours at 8000 level or above plus 6 hours of research/thesis. A thesis defense is required. An exit seminar describing thesis research is also required.

**Ph.D.**—A qualifying examination is required at the beginning of the student’s third semester. The student must successfully complete a program of study as approved by the major advisor and graduate committee. The student must pass a preliminary examination presented by the graduate committee. A dissertation is required of all candidates for the doctorate. Two departmental seminars are required. The first seminar, which is to be done in the early stages, will present the research proposal and include a review of relevant literature, and the second, or exit seminar, will describe the dissertation research.

**Program of Study**

**Agronomy Concentration Requirements**

**M.S.**—See General Departmental Requirements.

**M.S.-Non-Thesis**—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 credit 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.

**Ph.D.**—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 811-8831) are required.

**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. Two or 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 Ph.D. degree, original research, a preliminary examination, a dissertation, and an oral defense are required. The preliminary examination will be administered when coursework is completed.

**Graduate Courses**—Course prerequisites are noted in parentheses.

**Crops:**
- PSS 6103 Forage and Pasture Crops. 3 hours
- PSS 6113 Agricultural Crop Physiology. 3 hours
- PSS 6123 Grain Crops. 3 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSS 6133</td>
<td>Fiber and Oilseed Crops</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSS 6414</td>
<td>Turf Management</td>
<td>4 hours</td>
</tr>
<tr>
<td>PSS 6423</td>
<td>Golf Course Operations (PSS 6414)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSS 6443</td>
<td>Athletic Field Management (PSS 3303, PSS 4414, or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSS 6444</td>
<td>Plant Tissue Culture (BIO 4214/6214 or equivalent)</td>
<td>4 hours</td>
</tr>
<tr>
<td>PSS 6483</td>
<td>Introduction to Remote Sensing Technologies</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSS 6503</td>
<td>Plant Breeding (PO 3103 or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSS 6823</td>
<td>Turfgrass Weed Management</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSS 6990</td>
<td>Special Topics in PSS</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>PSS 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
</tr>
<tr>
<td>PSS 8000</td>
<td>Thesis Research/Thesis</td>
<td>Hours and credits to be arranged; minimum of 6 hours required for degree</td>
</tr>
<tr>
<td>PSS 8103</td>
<td>Pasture Development</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSS 8123</td>
<td>Crop Ecology (BIO 4213/6213 or permission of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSS 8163</td>
<td>Environmental Plant Physiology</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSS 8513</td>
<td>Advanced Plant Breeding (PSS 4503/6503 or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSS 8543</td>
<td>Biometrical Genetics in Plant Breeding (PSS 4503/6503 and ST 8114)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSS 8623</td>
<td>Genomes and Genomics (BCH 4113/6113 or BCH 4713/6713 or BCH 8643 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSS 8631</td>
<td>Topics in Genomics (PSS/BCH 8623 or BCH 4713/6713 or BCH 8643 or consent of instructor)</td>
<td>1 hour</td>
</tr>
<tr>
<td>PSS 8811-8831</td>
<td>Seminar</td>
<td>1-3 hours</td>
</tr>
<tr>
<td>PSS 8990</td>
<td>Special Topics in PSS</td>
<td>1-9 hours</td>
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<tr>
<td>PSS 9000</td>
<td>Dissertation Research/Dissertation</td>
<td>Hours and credits to be arranged; minimum of 20 hours required for degree</td>
</tr>
</tbody>
</table>

### Soils:
- PSS 6313: Soil Fertility and Fertilizers (PSS 3303 and junior standing) | 3 hours
- PSS 6314: Microbiology and Ecology of Soil (BIO 3304) | 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: Thesis Research/Thesis | Hours and credits to be arranged; minimum of 6 hours required for degree
- PSS 8314: Clay Mineralogy | 4 hours

### Program of Study

#### Horticulture Concentration Requirements

**M.S.—See General Departmental Requirements.**

**M.S.-Non-thesis**—A student in the M.S. non-thesis option program must successfully complete 30 credit hours of graduate level courses of which at least 15 must be courses numbered 8000 or above. Three credit hours of Directed Individual Study (PSS 7000) are required, in which the student must develop a research paper approved by the student’s graduate committee. An oral comprehensive exam is required.

**Ph.D.—**A minimum number of 30 hours of coursework is required. After two semesters, the student is required to take a qualifying examination. After completing coursework, an oral preliminary examination will be administered. Original research and a dissertation are also required, including a dissertation defense and final examination.

### Academic Performance

The general academic performance and continued enrollment policies as stipulated by the Office of the Graduate School will be followed.

### Prerequisite and Core Courses

- **M.S. specific requirements**—Statistics (ST 8114) and Seminar (PSS 8811)
- **Ph.D. specific course requirements**—Biochemistry (BCH 6603), Design and Analysis of Experiments (ST 8214), and Seminar (PSS 8811-8831)

### Completion Requirements

- **M.S.—**A thesis and thesis defense are required. M.S. candidates are required to take an oral examination, a written examination, or both.
- **Ph.D.—**The dissertation is required of all candidates for the doctorate, and a minimum of 20 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSS 6043</td>
<td>International Horticulture (PSS 1313).</td>
<td>3</td>
</tr>
<tr>
<td>PSS 6143</td>
<td>Advanced Fruit Sciences (PSS 3043 or equivalent).</td>
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</tr>
<tr>
<td>PSS 6341</td>
<td>Controlled Environment Agriculture Laboratory (Co-require: PSS 4343 for horticulture majors).</td>
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</tr>
<tr>
<td>PSS 6343</td>
<td>Controlled Environment Agriculture (BIO 2113 and PSS 3303; co-require for horticulture majors: PSS 4341).</td>
<td>3</td>
</tr>
<tr>
<td>PSS 6353</td>
<td>Arboriculture and Landscape Maintenance.</td>
<td>3</td>
</tr>
<tr>
<td>PSS 6363</td>
<td>Sustainable Nursery Production (PSS 2423 and PSS 3303).</td>
<td>3</td>
</tr>
<tr>
<td>PSS 6444</td>
<td>Plant Tissue Culture (BIO 1203 or equivalent and BIO 4124/6124).</td>
<td>4</td>
</tr>
<tr>
<td>PSS 6453</td>
<td>Vegetable Production (PSS 3303, PSS 3301 and BIO 4120).</td>
<td>3</td>
</tr>
<tr>
<td>PSS 6503</td>
<td>Plant Breeding (PO 3103) [Same as PSS 4503].</td>
<td>3</td>
</tr>
<tr>
<td>PSS 6553</td>
<td>Plant Growth and Development.</td>
<td>3</td>
</tr>
<tr>
<td>PSS 6613</td>
<td>Floriculture Crop Programming (PSS 4343/6343).</td>
<td>3</td>
</tr>
<tr>
<td>PSS 6833</td>
<td>Temperature Stress Physiology (BIO 4214/6214 or BCH 4013/6013).</td>
<td>3</td>
</tr>
<tr>
<td>PSS 6990</td>
<td>Special Topics in PSS.</td>
<td>1-9</td>
</tr>
<tr>
<td>PSS 7000</td>
<td>Directed Individual Study.</td>
<td>1-6</td>
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<td>PSS 8000</td>
<td>Thesis Research/Thesis.</td>
<td>6</td>
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<tr>
<td>PSS 8513</td>
<td>Advanced Plant Breeding (PSS 4503/6503)[same as GNS 8113].</td>
<td>3</td>
</tr>
<tr>
<td>PSS 8553</td>
<td>Phytohormones and Growth Regulation (BIO 4214/6214 and CH 2503).</td>
<td>3</td>
</tr>
<tr>
<td>PSS 8554</td>
<td>Plant Genetic Engineering (PSS 6444 and BCH 6713).</td>
<td>4</td>
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<tr>
<td>PSS 8563</td>
<td>Post Harvest Physiology of Horticultural Plants (Organic Chemistry and BIO 4214/6214 or equivalent).</td>
<td>3</td>
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<tr>
<td>PSS 8573</td>
<td>Morphology of Horticultural Plants (BCH 4024/6204).</td>
<td>3</td>
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<tr>
<td>PSS 8613</td>
<td>Methods of Horticultural Research.</td>
<td>3</td>
</tr>
<tr>
<td>PSS 8623</td>
<td>Genomes and Genomics (BCH 4113/6113 or BCH 4713/6713 or BCH 8643) or consent of instructor) [Same as BCH 8623].</td>
<td>3</td>
</tr>
<tr>
<td>PSS 8631</td>
<td>Topics in Genomics (BSS/BCH 8623 or BCH 4713/6713 or BCH 8643 or consent of instructor) [Same as BCH 8613].</td>
<td>1 hour</td>
</tr>
<tr>
<td>PSS 8811-8831</td>
<td>Seminar. 1-3 hours</td>
<td></td>
</tr>
<tr>
<td>PSS 8890</td>
<td>Special Topics in PSS.</td>
<td>1-9</td>
</tr>
<tr>
<td>PSS 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
<td></td>
</tr>
</tbody>
</table>

### Program of Study

#### Weed Science Concentration Requirements

**M.S.—**See General Departmental Requirements.

**Ph.D.—**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 completion of two semesters, a preliminary exam after completion or within 6 hours of completing coursework, and an oral exam are required.

#### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSS 6483</td>
<td>Introduction to Remote Sensing Technologies (Senior or Graduate standing, or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>PSS 6633</td>
<td>Weed Biology and Ecology (BIO 1203, PSS 3133).</td>
<td>3</td>
</tr>
<tr>
<td>PSS 6813</td>
<td>Herbicide Technology (PSS 3133).</td>
<td>3</td>
</tr>
<tr>
<td>PSS 6823</td>
<td>Turfgrass Weed Management.</td>
<td>3</td>
</tr>
<tr>
<td>PSS 7000</td>
<td>Directed Individual Study.</td>
<td>3</td>
</tr>
<tr>
<td>PSS 8000</td>
<td>Thesis Research/Thesis.</td>
<td>6</td>
</tr>
<tr>
<td>PSS 8634</td>
<td>Environmental Fate of Herbicides (CH 4513/6513,PSS 4813/6813).</td>
<td>4</td>
</tr>
<tr>
<td>PSS 8701-8724</td>
<td>Current Topics in Weed Science (PSS 4813/6813 or consent of instructor). 1-9</td>
<td></td>
</tr>
<tr>
<td>PSS 8724</td>
<td>Herbicide Physiology and Biochemistry (PSS 4813/6813, BIO 4214/6214 CH 4513/6513 or consent of instructor). 4 hours</td>
<td></td>
</tr>
<tr>
<td>PSS 8811-8831</td>
<td>Seminar. 1-3 hours</td>
<td></td>
</tr>
<tr>
<td>PSS 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
<td></td>
</tr>
</tbody>
</table>
minimum of 20 hours required for degree

Poultry Science
Dr. David Peebles, Interim Department Head
Dr. Christopher D. McDaniel,
Graduate Coordinator
Hill Poultry Science Building
Box 9665
Mississippi State, MS 39762
Telephone: 662-325-3416
E-mail: cmcdaniel@poultry.msstate.edu

Master of Science (M.S.)
The Poultry Science Department offers the Master of Science (M.S.) degree in Agriculture with a concentration in Poultry Science and the Doctor of Philosophy (Ph.D.) degree in Agricultural Sciences with a concentration in Poultry Science. The department also offers M.S. and Ph.D. programs with concentrations in the interdisciplinary programs of genetics and animal physiology. Admission requirements and 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 of the Graduate School 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.

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 9 hours of graduate courses at Mississippi State University after admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.

Program of Study
Thesis Option—The program of study requires a minimum of 24 semester hours of coursework (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.

Non-Thesis Option—The program of study requires a minimum of 30 semester hours of coursework 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.

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. Chris McDaniel, Graduate Coordinator, Poultry Science Department, Box 9665, Mississippi State, MS 39762 or e-mail at cmcdaniel@poultry.msstate.edu.

Doctor of Philosophy (Ph.D.)
The Poultry Science Department offers the Ph.D. in Agricultural Sciences with a concentration in Poultry Science. The Ph.D. requires a minimum of three academic years beyond the B.S. degree with the
number of hours varying as determined by the student and major professor. Course requirements may include BCH 6603, BCH 6613, ST 8114, and ST 8214. A minor is not required, but if selected an additional 12 hours of graduate credit is required. The preliminary examination must be attempted by the end of the fifth semester of the program. 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 if the student has a minor and four members if the student does not have a minor. Committee members include the major professor, who must be a full member of the graduate faculty, at least three other members, two of whom are from the student’s major field of interest, and a minor professor if the student has a minor field. Additional committee members may be included at the discretion of the major professor.

Admission Criteria
Admission requirements for the Ph.D. degree concentration in Poultry Science are the same as those listed in the General Requirements of the Graduate School 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 dissertation director (major professor), but the GRE score is not a Department of Poultry Science requirement.

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 9 hours of graduate courses at Mississippi State University. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 GPA is not attained, the student will be dismissed from the graduate program.

Academic Performance
Satisfactory academic performance standards are the same as those for CALS, except as follows: The student is allowed to make no more than two C grades in courses taken for graduate credit. The student will be recommended for dismissal if he/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/she receives a C or any grade below a C in a core course. To be eligible for the preliminary/comprehensive examination, a graduate student must maintain an overall B average in all graduate courses attempted. The student must have a final GPA of 3.00 or higher to graduate.

Completion Requirements
Requirements for completion of the Ph.D. in Poultry Science are the same as those for CALS except that each student in Poultry Science is required to participate in a limited teaching capacity, such as guest lecturer, in one course during his/her graduate study. That limited teaching capacity shall be determined by the student’s graduate committee when the student’s program of study is established.

To secure additional information, write to Dr. Chris McDaniel, Graduate Coordinator, Poultry Science Department, Box 9665, Mississippi State, MS 39762 or e-mail at cmcdaniel@poultry.msstate.edu.

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>PO 6313</td>
<td>Management of Commercial Layers</td>
<td>3</td>
</tr>
<tr>
<td>PO 6324</td>
<td>Avian Reproduction</td>
<td>4</td>
</tr>
<tr>
<td>PO 6333</td>
<td>Broiler Production</td>
<td>3</td>
</tr>
<tr>
<td>PO 6413</td>
<td>Poultry Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>PO 6423</td>
<td>Feed Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>PO 6513</td>
<td>Poultry Processing [same as FNH 4513/6513]</td>
<td>3</td>
</tr>
<tr>
<td>PO 6523</td>
<td>Advanced Poultry Processing (PO 4513/6513)</td>
<td>3</td>
</tr>
<tr>
<td>PO 6833</td>
<td>Avian Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>PO 6843</td>
<td>Avian Physiology (PO 4833/6833) [same as PHY 6843]</td>
<td>3</td>
</tr>
<tr>
<td>PO 6990</td>
<td>Special Topics in Poultry</td>
<td>1-9</td>
</tr>
<tr>
<td>PO 7000</td>
<td>Directed Individual Study</td>
<td>1-6</td>
</tr>
<tr>
<td>PO 8000</td>
<td>Thesis Research/Thesis</td>
<td>Hours and credits to be arranged; minimum of 6 hours required for degree</td>
</tr>
<tr>
<td>PO 8123</td>
<td>Methods in Nutrition Research</td>
<td>3</td>
</tr>
<tr>
<td>PO 8443</td>
<td>Avian Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>PO 8990</td>
<td>Special Topics in Poultry</td>
<td>1-9</td>
</tr>
<tr>
<td>PO 9000</td>
<td>Dissertation Research/Dissertation</td>
<td>Hours and credits to be arranged; minimum of 20 hours required for degree</td>
</tr>
</tbody>
</table>
Degree and Certificate Programs
(T=thesis; NT=non-thesis)
[1=Starkville, 2=Meridian, 5=Distance]

School of Architecture

Master of Science
Major: Architecture (T; NT) [1]
Certificate in Public Design

The School of Architecture is not currently accepting applications for admission.

School of Architecture
Prof. Michael Berk, Director
Dr. David Lewis, Graduate Coordinator
240 Giles Hall
899 Collegeview St., Box AQ
Mississippi State, MS 39762
Telephone: 662-325-2202
E-mail: dlewis@caad.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 conceptual and technical skills in digital design. This is a post-professional degree and does not lead to licensing in Architecture.

For additional information, contact:
Graduate Program Coordinator
Mississippi State University
School of Architecture,
P. O. Box AQ, 240 Giles Hall
Mississippi State, MS 39762

Admission Criteria
Applicants must have a GPA of at least 3.00 and should have an undergraduate degree in architecture, landscape architecture, fine arts, interior design, industrial design, graphic design, or other related professions. Prospective students should be competent in relevant 2D and 3D computer applications in their fields. This competence may be demonstrated through grades of B or better in design and computer science courses or through the submission of a portfolio. GRE scores must be submitted. International students must have a TOEFL (Test of English as a Foreign Language) score of 600 PBT (250 CBT or 100 iBT) or an IELTS (International English Language Testing Systems) score of 7.5 or above and should submit GRE scores. Each applicant must submit an essay stating intent and aspirations for study.

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.

The student in Option One-Thesis (see Program of Study below) 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.

Program of Study
The M.S. degree may be earned via two study track options: Option One-Thesis and Option Two-Non-Thesis.
Option One-Thesis: Requires 30 credit hours (24 graduate level course hours with half at the 8000 level and 6 credit hours of research/thesis) and a comprehensive examination.
Option Two-Non-Thesis: Requires 32 graduate level credit hours and a comprehensive examination. At least 15 hours must be at the 8000 level.
The Master of Science degree in Architecture offers an interdisciplinary, research-oriented academic experience for students from various fields who wish to use digital methods and tools in design, visualization, fabrication, 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. The entering class may include students from various design fields. Diversity is preferred in the student composition. An applicant must submit a portfolio of design, preferably in digital form (CD, DVD, website, etc.). Interviews via e-mail, phone or in person may be required at the discretion of the applicant review committee.

Students will have access to the School’s Research and Informatics Laboratory (DRIL), the Fabrication Lab, and Plot Lab, which include workstations, digital fabrication tools, hand and power tools, printers, plotters, scanners, etc. All students must purchase personal computers.

**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>ARC 6114</td>
<td>Professional Practice Strategies</td>
<td>4</td>
</tr>
<tr>
<td>ARC 6152</td>
<td>Digital Design I Lab (Undergraduate-</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>permission of instructor; Graduate-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>none)</td>
<td></td>
</tr>
<tr>
<td>ARC 6162</td>
<td>Digital Design II Lab (ARC 4152/6152)</td>
<td>2</td>
</tr>
<tr>
<td>ARC 6333</td>
<td>Contemporary Philosophy and Architecture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(junior standing or permission of instructor)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>[same as PHI 4014/6013]</td>
<td></td>
</tr>
<tr>
<td>ARC 6633</td>
<td>Architecture &amp; Virtual Spaces</td>
<td>3</td>
</tr>
<tr>
<td>ARC 6813</td>
<td>Public Design Seminar I (Acceptance in</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Public Design Intern Program)</td>
<td></td>
</tr>
<tr>
<td>ARC 6823</td>
<td>Public Design Seminar II (ARC 6813)</td>
<td>3</td>
</tr>
<tr>
<td>ARC 6833</td>
<td>Public Design Seminar III (ARC 68334)</td>
<td>3</td>
</tr>
<tr>
<td>ARC 6853</td>
<td>Public Practice and Projects I (Acceptance</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>in Public Design Intern Program)</td>
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</tr>
<tr>
<td>ARC 6863</td>
<td>Public Practice and Projects II (ARC 6853)</td>
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<td>ARC 6873</td>
<td>Public Practice and Projects III (ARC 6863)</td>
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<td>ARC 6990</td>
<td>Special Topics in Architecture</td>
<td></td>
</tr>
<tr>
<td>ARC 7000</td>
<td>Directed Individual Study</td>
<td></td>
</tr>
<tr>
<td>ARC 8000</td>
<td>Thesis Research/Thesis</td>
<td></td>
</tr>
<tr>
<td>ARC 8114</td>
<td>Digital Design I</td>
<td>4</td>
</tr>
<tr>
<td>ARC 8124</td>
<td>Digital Design II (ARC 8114)</td>
<td>4</td>
</tr>
<tr>
<td>ARC 8224</td>
<td>Architectural Research &amp; Writing</td>
<td>4</td>
</tr>
<tr>
<td>ARC 8444</td>
<td>Interactive Media (ARC 6633)</td>
<td>4</td>
</tr>
<tr>
<td>ARC 8990</td>
<td>Special Topics in Architecture</td>
<td></td>
</tr>
</tbody>
</table>

**Certificate in Public Design**

The purpose for the program is to prepare design professionals to work in community-oriented design organizations and to be leaders in the field of public design. The certificate curriculum is designed as a three-semester program. The participants must be graduates of an accredited professional degree program in architecture, planning, or landscape architecture. Up to six interns each year will be supported. Interns will work alongside the studio’s experienced full-time design staff on community projects for three-quarters of their time and complete coursework for one-quarter of their time.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC 6813</td>
<td>Public Design Seminar I (Acceptance in</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Public Design Intern Program)</td>
<td></td>
</tr>
<tr>
<td>ARC 6853</td>
<td>Public Practice and Projects I (Acceptance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>in Public Design Intern Program)</td>
<td></td>
</tr>
<tr>
<td>ARC 6823</td>
<td>Public Design Seminar II (ARC 6813)</td>
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</tr>
<tr>
<td>ARC 6833</td>
<td>Public Design Seminar III (ARC 68334)</td>
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</tr>
<tr>
<td>ARC 6853</td>
<td>Public Practice and Projects I (Acceptance</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>in Public Design Intern Program)</td>
<td></td>
</tr>
<tr>
<td>ARC 6863</td>
<td>Public Practice and Projects II (ARC 6853)</td>
<td>2</td>
</tr>
<tr>
<td>ARC 6873</td>
<td>Public Practice and Projects III (ARC 6863)</td>
<td>3</td>
</tr>
</tbody>
</table>

The Certificate of Public Design will be granted upon the successful completion of the above sequence of courses.
COLLEGE OF ARTS AND SCIENCES

Dr. Gary Myers, Dean
Dr. Walter Diehl, Associate Dean for Research & Graduate Studies
Dr. Greg Dunaway, Interim Associate Dean for Academic Affairs
& Student Services
208 Allen Hall
Telephone: 662-325-2646
Fax: 662-325-8740
Mailing Address: Box AS, Mississippi State, MS 39762
Website: http://www.cas.msstate.edu/
E-mail: simone@deanas.msstate.edu

Degree and Certificate Programs
(T=thesis; NT=non-thesis)
[1=Starkville, 2=Meridian, 5=Distance]

Department of Anthropology and Middle Eastern Cultures
Master of Arts
Major: Applied Anthropology (T) [1]

Department of Biological Sciences
Master of Science
Major: General Biology (NT) [5]
Master of Arts
Major: Interdisciplinary Sciences
- Emphasis: Biological Sciences (NT) [5]
Doctor of Philosophy
Major: Biological Sciences [1]

Department of Chemistry
Master of Science
Major: Chemistry (T) [1]
Master of Arts
Major: Interdisciplinary Sciences
- Emphasis: Chemistry (NT) [5]
Doctor of Philosophy
Major: Chemistry [1]

Department of Classical and Modern Languages and Literature
Master of Arts
Major: Foreign Language (T; NT) [1]

Department of English
Master of Arts
Major: English (T; NT) [1]
Teaching of English to Speakers of Other Languages (TESOL) Certificate

Department of Geosciences
Master of Science
Major: Geoscience (T; NT) [1, 5]
- Concentrations: Applied Meterology (NT) [5]
- Teachers in Geosciences (NT) [5]
Master of Arts
Major: Interdisciplinary Sciences
- Emphasis: Geosciences (NT) [5]
Doctor of Philosophy
Major: Earth and Atmospheric Science [1]

Department of History
Master of Arts
Major: History (T; NT) [1]
Doctor of Philosophy
Major: History [1]
Diversity Graduate Certificate

Department of Mathematics & Statistics
Master of Science
Major: Mathematics (T; NT) [1]
Master of Science
Major: Statistics (T; NT) [1]
Doctor of Philosophy
Major: Mathematical Sciences [1]

Department of Physics and Astronomy
Master of Science
Major: Physics (T; NT) [1]

Department of Political Science and Public Administration
Master of Arts
Major: Political Science (T; NT) [1]
Master of Public Policy and Administration
Major: Public Policy and Administration (NT) [1]
Doctor of Philosophy
Major: Public Policy and Administration [1]
Anthropology and Middle Eastern Cultures
Dr. Paul F. Jacobs, Department Head
Dr. Evan Peacock, Graduate Coordinator
108 Cobb Institute of Archaeology
Box AR
Mississippi State, MS 39762
Telephone: 662-325-1663
E-mail: peacock@anthro.msstate.edu

Graduate study leading to a Master of Arts degree in Applied Anthropology is offered by the Department of Anthropology and Middle Eastern Cultures.

Admission Criteria
- A complete application for graduate study at MSU
- Official transcripts showing credits earned at institutions of higher education
- A 3.00 GPA on the last 60 hours of baccalaureate work
- A statement of purpose explaining why the applicant wishes to study anthropology at MSU
- Scores on the General Graduate Record Examination (GRE)
- Three letters of recommendation from people who know the applicant's academic ability and potential

A student who is admitted to the program without a bachelor’s degree in anthropology 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 March 15 (fall admission) or October 15 (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.

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 9 hours of graduate-level courses on their program of study taken at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement) 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.

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 March 15 (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 (5 hours credit), an oral exam, and 25 hours of graduate coursework, 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. Specialty 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 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; mediating the impacts of development; and communication in multi-cultural settings. Ethnographic and qualitative research methods, as practiced in applied settings, are stressed. Students in both tracks are required to take AN 8011 Professionalization in Applied Anthropology and AN 8013 Quantitative Methods in Anthropology.

The program focuses on preparing students for placement in the public and private sectors as cultural resource specialists, applied skeletal biologists, applied health scientists, and community and sustainable development practitioners, 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.

Completion Requirements—A thesis is required for completion of the Master of Arts degree in anthropology.

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 coursework and every semester thereafter.

Information—To obtain additional information, contact the Anthropology Graduate Coordinator; Department of Anthropology and Middle Eastern Cultures, Box AR, Mississippi State, MS 39762, visit the Website at http://www.amec.msstate.edu/, or telephone 662-325-2013.

Graduate Courses:
AN 6123 Anthropological Theory. 3 hours
AN 6133 Medical Anthropology. 3 hours
AN 6143 Ethnographic Methods. 3 hours
AN 6163 Anthropology of International Development. 3 hours
AN 6173 Environment and Society [same as SO 6173]. 3 hours
AN 6303 Human Variation and Origins. 3 hours
AN 6313 Forensic Anthropology. 3 hours
AN 6403 Introduction to Linguistics (AN 1103 or consent of instructor) [same as EN 6403]. 3 hours
AN 6523 Public Archaeology. 3 hours
AN 6623 Language and Culture (AN 1103 or consent of instructor) [same as EN/SO 6623]. 3 hours
AN 6633 Sociolinguistics (AN 1103 or consent of instructor) [same as EN/SO 6633]. 3 hours
AN 6990 Special Topics in Anthropology. 1-9 hours
AN 7000 Directed Individual Study. 1-3 hours
AN 8011 Professionalization in Applied Anthropology. 1 hour
AN 8013 Quantitative Methods in Anthropology. 3 hours
AN 8103 Seminar in Applied Cultural Anthropology. 3 hours
AN 8203 Readings and Research in Applied Anthropology. 3 hours
AN 8215 Internship in Applied Anthropology. 5 hours
AN 8303 Bioarchaeology. 3 hours
AN 8513 southeastern Archaeology. 3 hours
AN 8523 Environmental Archaeology. 3 hours
AN 8533 Readings in Archaeology: Theory. 3 hours
AN 8553 Readings in Archaeology: Applications. 3 hours
AN 8990 Special Topics in Anthropology. 1-9 hours
MEC 6403 Ancient Near East (Completion of any 1000-level history course) [Same as HI 6403 and REL 6403]. 3 hours
**Biological Sciences**  
Dr. Nancy Reichert, Department Head  
Dr. Gary Ervin, Graduate Coordinator  
114 Harned Biology, 295 Lee Blvd  
Box GY  
Mississippi State, MS 39762  
Telephone: 662-325-3120  
E-mail: grad_studies@biology.msstate.edu

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 cell biology, evolutionary biology/ecology, or microbiology. Graduate research and teaching assistantships are available.

Highly qualified undergraduates at Mississippi State are encouraged to consider applying to the combined B.S./M.S. degree program. This program permits concurrent enrollment in the B.S. and M.S. degrees in Biological Sciences during the student’s final semester of undergraduate studies with enrollment in up to 9 hours of graduate courses, for which undergraduate credit is also awarded. Students would need to consult with potential graduate advisors to ensure graduate credit could be applied to a program of study for the M.S. degree. Application to this program may be made as early as the end of the sophomore year (i.e., after completion of 60 or more hours of graded undergraduate courses). This option is only available for students pursuing a thesis-based Master of Science degree in Biological Sciences.

A Master of Science degree in General Biology is offered through distance learning. This degree program is designed for practicing K-12 teachers who need graduate-level comprehensive instruction in biology. This web-based degree program culminates with a capstone hands-on learning experience in lab and field settings.

A Master of Arts degree in Interdisciplinary Sciences (Teachers in Interdisciplinary Sciences) is also available through distance learning. A 21-hour emphasis in Biological Sciences is complemented by 15 required hours from Chemistry; Geosciences; and Mathematics & Statistics in the two-year, 36-hour program intended primarily for K-12 teachers. Detailed admission, program completion, and course information is found in this publication under Master of Arts in Interdisciplinary Sciences.

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**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 coursework in the biological sciences;
2. three letters of recommendation from individuals familiar with the applicant’s academic performance;
3. submission of scores from the Graduate Record Examination (GRE) General Test;
4. a statement of professional interests and goals from the applicant.

Requirements for admission to the Master of Science in General Biology include:

1. a minimum GPA of 2.75 on a 4.00 system on the last 60 hours of the undergraduate degree and a GPA of 3.00 for all coursework in the biological sciences;
2. three letters of recommendation from individuals familiar with the applicant’s academic performance;
3. a statement of purpose, professional goals and interests, and work experience.

Requirements for entrance into the combined B.S./M.S. program in the Department of Biological Sciences are:

1. a GPA of 3.50 or higher on a 4.00 system for all undergraduate work (no fewer than 60 hours)
2. submission of a standard application for graduate studies in the Department of Biological Sciences, along with application fee;
3. three letters of recommendation from individuals familiar with the applicant’s academic performance;
4. submission of scores from the Graduate Record Examination (GRE) General Test prior to enrolling in graduate courses; and
5. a statement of professional interests and goals from the applicant, including specification of one or more potential major professors.

**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 such as determined by the faculty and/or the Office of the Graduate School. Graduate students 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 (6 hours summer/9 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). Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy 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. While in the provisional status, a student is not eligible to hold a graduate assistantship. This option is not available for students pursuing the combined B.S./M.S. program.

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 3.00, he/she will have a one-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 probationary semester. 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.

Program of Study/Completion Requirements
The Master of Science degree in Biological Sciences requires a minimum of 30 hours of graduate study, including 24 hours of coursework and 6 hours of research/thesis. Required courses include BIO 8011, BIO 8021, and ST 8114 (or appropriate substitute, as approved by the advisory committee). In addition, a mandatory exit seminar, a final comprehensive examination and a thesis are required.

The Doctor of Philosophy course requirements 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.

A student accepted into the combined B.S./M.S. program is allowed to enroll in graduate courses in the student’s final undergraduate semester. The student and advisor may select up to 9 hours that will satisfy both undergraduate and graduate requirements. These courses may be split level (i.e., split 4000-6000 level) or 8000 level classes. The student must take the courses for graduate credit (i.e., 6000 level or higher). To register for graduate courses, the student must first submit to the Office of the Graduate School a completed Undergraduate Request to Enroll in Graduate Courses(s) form (http://www.grad.msstate.edu/forms/pdf_forms/undergraduate_request_to_enroll_in_graduate_course.pdf). The combination of undergraduate and graduate credit hours may not exceed 13 hours within a semester. After successfully completing the graduate-level classes, the student and undergraduate advisor will complete a request to receive undergraduate credit for the course. After receiving the request, the Registrar will grant credit for the undergraduate course and give the same grade as received for the graduate course. For the case of a split-level class, the transcript will show credit for both the 4000 and 6000 levels on the transcript. In the case of an 8000 level class, an undergraduate course of the same title will be entered on the transcript to allow dual credit.

Students are permitted to opt out of the combined program at any time, at which point they can complete only the undergraduate portion of the program. No additional dual counting of courses will occur after the student opts out of the combined program.

Students will receive the Bachelor’s degree once the requirements for the Bachelor’s degree are met. Students will be required to complete all of the requirements for both the Bachelor’s and Master’s degrees in order to receive both degrees, and those requirements will be identical to the requirements for students enrolled in traditional B.S. and M.S. programs. Students will be classified as undergraduates until they fulfill all the requirements for the undergraduate degree. At that time, they will be classified as graduate students and will be subject
to all the guidelines pertaining to the M.S. in Biological Sciences degree. Students admitted to this program should read and understand guidelines in the Department of Biological Sciences Graduate Student Handbook before registering for any courses for graduate credit.

Requirements for the Master of Science in General Biology include a 33-hour program of coursework and a written comprehensive examination administered at the beginning of the final term. Each student will be required to complete Capstone in Modern Biology, an intensive face-to-face course of planned, hands-on lab- and field-based activities.

For additional information, write to the Graduate Coordinator, Department of Biological Sciences, 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>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 6603</td>
<td>Ethnobotany (BIO 1134 and BIO 1144 or AN 1143 and AN 1343)</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 6113</td>
<td>Evolutionary Biology (MA 1313 or equivalent, BIO 1134 and BIO 1144, BIO 3103 or BIO 4133)</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 6114</td>
<td>Cellular Physiology (7 hours of biological sciences and two semesters of organic chemistry) [same as PHY 4114/6114].</td>
<td>4 hours</td>
</tr>
<tr>
<td>BIO 6133</td>
<td>Human Genetics (BIO 1134, and BIO 1144 or BIO 2113 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 6203</td>
<td>Taxonomy of Spermatophytes (BIO 2113 and BIO 2213).</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 6204</td>
<td>Plant Anatomy (BIO 2113 and BIO 2213).</td>
<td>4 hours</td>
</tr>
<tr>
<td>BIO 6213</td>
<td>Plant Ecology (BIO 4203).</td>
<td>3 hours</td>
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<tr>
<td>BIO 6214</td>
<td>General Plant Physiology (BIO 2113 and CH 1213).</td>
<td>4 hours</td>
</tr>
<tr>
<td>BIO 6224</td>
<td>Aquatic Botany (BIO 2113 and one of BIO 3104, BIO 4213, WFA 3133; or graduate standing; or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 6303</td>
<td>Bioinstrumentation (BIO4304/6304).</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 6304</td>
<td>Quantitative Methods.</td>
<td>4 hours</td>
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<tr>
<td>BIO 6314</td>
<td>Quantitative Methods II (BIO 4304/6304).</td>
<td>4 hours</td>
</tr>
<tr>
<td>BIO 6324</td>
<td>Microbiology and Ecology of Soil (BIO 3304) [Same as PSS 4314/6314].</td>
<td>4 hours</td>
</tr>
<tr>
<td>BIO 6404</td>
<td>Environmental Microbiology (BIO 3304).</td>
<td>4 hours</td>
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<tr>
<td>BIO 6405</td>
<td>Pathogenic Microbiology (BIO 3304).</td>
<td>5 hours</td>
</tr>
<tr>
<td>BIO 6413</td>
<td>Immunology (BIO 3304 and CH 4513).</td>
<td>3 hours</td>
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<tr>
<td>BIO 6414</td>
<td>Microbiology of Foods (BIO 3304).</td>
<td>4 hours</td>
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<tr>
<td>BIO 6433</td>
<td>Principles of Virology (BCH 4603 and BIO 3103 or equivalents).</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 6442</td>
<td>Bacterial Genetics Lab (BCH 4603, BIO 3304 and concurrent enrollment in BIO 4443/6443).</td>
<td>2 hours</td>
</tr>
<tr>
<td>BIO 6443</td>
<td>Bacterial Genetics (BCH 4603, BIO 3304 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 6463</td>
<td>Bacterial Physiology (BIO 3404 and BCH 4603).</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 6473</td>
<td>Medical Virology (BIO 3304).</td>
<td>3 hours</td>
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<tr>
<td>BIO 6503</td>
<td>Vertebrate Histology (BIO 1134 and BIO 1144).</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 6504</td>
<td>Comparative Vertebrate Embryology (BIO 1134 and BIO 1144).</td>
<td>4 hours</td>
</tr>
<tr>
<td>BIO 6514</td>
<td>Animal Physiology (10 hours of zoology and organic chemistry).</td>
<td>4 hours</td>
</tr>
<tr>
<td>BIO 6673</td>
<td>Industrial Microbiology.</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 6990</td>
<td>Special Topics in Biology.</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>BIO 7000</td>
<td>Directed Individual Study. (BIO 4326/6326). Hours to be arranged.</td>
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<tr>
<td>BIO 8000</td>
<td>Thesis Research/Thesis. [Same as GCRL Zoology 561.] Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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<tr>
<td>BIO 8011</td>
<td>Seminar I. 1 hour</td>
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<tr>
<td>BIO 8013</td>
<td>Scientific Writing for Biological Scientists.</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 8021</td>
<td>Seminar II. 1 hour</td>
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<tr>
<td>BIO 8103</td>
<td>Advanced Ecology (BIO 3104).</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 8113</td>
<td>Biogeography.</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 8123</td>
<td>Physiological Ecology (One semester of physiology or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 8163</td>
<td>Invasion Ecology.</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 8213</td>
<td>Plant Water and Mineral Relations (BIO 4214).</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 8223</td>
<td>Plant Metabolism (BIO 4214 and organic chemistry).</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 8233</td>
<td>Molecular Applications.</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 8453</td>
<td>Advanced Virology (Cell Biology or equivalent).</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIO 8990</td>
<td>Special Topics in Biology.</td>
<td>1-9 hours</td>
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</tbody>
</table>

### Distance Courses in Biological Sciences—Intended for K-12 science teachers, these courses cannot be used to satisfy degree requirements in a non-distance degree program.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 6137</td>
<td>Genetics &amp; Molecular Biology (consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree program.)</td>
<td>3 hours</td>
</tr>
</tbody>
</table>
BIO 6023 Principles of Evolutionary Biology (consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree program.) 3 hours

BIO 6033 Fundamentals of Biotechnology (BIO 6013 and BIO 8033, or consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree program.) 3 hours

BIO 6043 Developmental & Reproductive Biology (BIO 6013 and BIO 8033 or consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree program.) 3 hours

BIO 8023 Modern Microbiology (consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree program.) 3 hours

BIO 8033 Advanced Cell Biology (consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree program.) 3 hours

BIO 8043 Ecology & the Environment (consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree program.) 3 hours

BIO 8053 Comprehensive Study of Animals (BIO 6023 or consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree program.) 3 hours

BIO 8063 Comprehensive Study of Plants (BIO 6023 or consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree program.) 3 hours

BIO 8073 Bio Methods MAIS (15 hours of BIO graduate work and consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree program.) 3 hours

BIO 8083 Capstone Bio MAIS (15 hours of BIO graduate work and consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree program.) 3 hours

BIO 8093 Experimental Biology & Biostatistics (Consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree program.) 3 hours

BIO 8183 Capstone in Modern Biology (30 hours of BIO graduate work and consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree program.) 3 hours

**Chemistry**

Dr. Ed Lewis, Department Head
Dr. Stephen Foster, Graduate Coordinator
1115 Hand Chemical Laboratory
Box 9573
Mississippi State, MS 39762
Telephone: 662-325-3584
E-mail: grad@chemistry.msstate.edu

The Department of Chemistry provides a flexible and dynamic environment in which to pursue a Master of Science or Doctor of Philosophy degree in chemistry. Students have the opportunity to work with faculty with interests in Biochemistry, Environmental Chemistry, and Materials Science, as well as in Analytical, Inorganic, Organic, and Physical Chemistry. The faculty has active research programs in Synthesis (inorganic, organic, polymer and supramolecular synthesis), Surface Chemistry (catalysis and corrosion studies), Spectroscopy (IR laser spectroscopy and bioanalytical applications for Raman and Surface Enhanced Raman methods), Structural Biology (using NMR and computational methods), and Biophysical studies (including cancer drug discovery). Environmental research programs focus on the development of novel miniature chemical sensors and on pesticide and herbicide transport while computational chemists are developing Ab initio and semiempirical methods to study complex biological systems and important chemical processes. The research is supported by an array of in-house equipment. NMR spectrometers include 600-MHz and 300-MHz instruments. An EPR spectrometer and single crystal and powder X-ray diffractometers with CCD detection are maintained in the department. Students also have access to a wide range of instruments including UV-vis, FT-IR, and UV/Vis/near-IR spectrophotometers, as well as mass spectrometers, including GC-MS, LC-MS, and quadrupole ion trap instruments. Individual research labs maintain an array of instruments including: lasers, an atomic force microscope, a Laser Raman microscope, ITC and DSC microcalorimeters, a stopped-flow UV/vis system, a spectrofluorimeter, a Circular Dichroism spectropolarimeter, a scanning electrochemical microscope, and numerous GC’s and HPLC’s. Research and teaching assistantships are
available. The department also offers five GAANN (Graduate Assistance in Areas of National Need) fellowships to qualified U.S. residents. For more information write to the Graduate Coordinator, Department of Chemistry, Box 9573, Mississippi State, MS 39762; send electronic mail to grad@chemistry.msstate.edu, or visit the Website at http://www.msstate.edu/dept/chemistry.

A Master of Arts degree in Interdisciplinary Sciences (Teachers in Interdisciplinary Sciences) is available through distance learning. A 21-hour emphasis in Chemistry is complemented by 15 required hours from Biological Sciences; Geosciences; and Mathematics & Statistics in the two-year, 36-hour program intended primarily for K-12 teachers. Detailed admission, program completion, and course information is found in this publication under Master of Arts in Interdisciplinary Sciences.

Admission Criteria
Although not required, the admissions committee encourages students to take the GRE general test. Foreign students may be admitted with a TOEFL (Test of English as a Foreign Language) score of 477 PBT (153 CBT or 53 iBT) or an IELTS (International English Language Testing Systems) score of 4.5 (University minimum), but a TOEFL score of at least 550 PBT (213 CBT or 79 iBT) or an IELTS score of 6.5 is required for a student to be considered for financial aid.

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 9 hours of regular graduate-level courses taken after admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. The specific courses used to overcome these deficiencies are chosen by the department's graduate committee on a case-by-case basis.

Program of Study/Completion Requirements
For the Master of Science degree, the department requires 30 hours of credit (6 hours of research, 23 hours of coursework and one seminar credit). For the Ph.D., the department requires one core course in four of the five major areas of chemistry (analytical, biochemistry, 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.

Academic Performance
All entering students take placement exams to demonstrate competency in the four of the five 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>
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<tr>
<th>Analytical</th>
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<tbody>
<tr>
<td>CH 8313 Advanced Analytical</td>
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<tr>
<td>CH 8333 Advanced Instrumental</td>
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<tr>
<td>CH 8990 Special Topics: Chemical Separations</td>
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<table>
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<tr>
<th>Organic</th>
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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>
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<tr>
<td>CH 8990 Special topic: Organometallic Chemistry</td>
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</tr>
<tr>
<td>CH 8990 Special topic: Inorganic Structures and Properties</td>
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<tr>
<th>Physical</th>
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<tr>
<td>CH 8423 Molecular Structure</td>
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<tr>
<td>CH 8623 Physical Biochemistry</td>
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</tbody>
</table>

Graduate Courses—Course prerequisites are noted in parentheses.

CH 6212 Advanced Inorganic Laboratory (prior credit or concurrent enrollment in CH 4213/6213). 2 hours

CH 6213 Advanced Inorganic Chemistry I (Consent of the instructor and CH 4413/6413). 3 hours
CH 6303 Environmental Chemistry I (CH 4523/6523). 3 hours
CH 6351 Analytical Chemistry Laboratory II (concurrent registration in CH 4353/6533). 1 hour
CH 6353 Analytical Chemistry II (CH 2313 or CH 2314). 3 hours
CH 6411 Physical Chemistry Laboratory I (CH 4413/6413). 1 hour
CH 6413 Physical Chemistry I (CH 1223, PH 2213 or PH 1113 and MA 1723). 3 hours
CH 6421 Physical Chemistry Laboratory II (CH 4413/6413). 1 hour
CH 6423 Physical Chemistry II (CH 1223, PH 2213 or PH 1113, MA 1723). 3 hours
CH 6511 Organic Chemistry Laboratory I (CH 2221 and CH 2223). 1 hour
CH 6513 Organic Chemistry I (CH 2223). 3 hours
CH 6521 Organic Chemistry Laboratory II (CH 4511/6511 and CH 4513/6513). 1 hour
CH 6523 Organic Chemistry II (CH 4513). 3 hours
CH 6533 Intermediate Organic Chemistry (CH 4523/6523). 3 hours
CH 6990 Special Topics in Chemistry. 1-9 hours
CH 7000 Directed Individual Study. 1-6 hours
CH 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree

Chemical Physics:
Any course numbered 6000 or above as offered by the Department of Physics is accepted for major credit.

Communication
Dr. John E. Forde, Department Head
130 McComas Hall
Box PF
Mississippi State, MS 39762
Telephone: 662-325-3320
E-mail: jforde@comm.msstate.edu

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, Box PF, Mississippi State, MS 39762.

Graduate Courses—Course prerequisites are noted in parentheses.

CO 6053 Internship in Communication (CO 2323 or CO 2333 for Radio/TV students or communication majors only). 3 hours
CO 6203 Nonverbal Communication (CO 1223 or PSY 1013). 3 hours
CO 6213 Political Communication. 3 hours
CO 6223 Advanced Communication Theory (CO 1223). 3 hours
CO 6243 Rhetorical Theory (CO 1223). 3 hours
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 6433 Television Criticism (Junior standing or higher). 3 hours
CO 6504 History of the Theatre. 4 hours
CO 6524 Directing (CO 2524). 4 hours
CO 6533 Advanced Acting (CO 2503). 3 hours
CO 6573 Theatre Management. 3 hours
CO 6583 Playwriting (CO 1503). 3 hours
CO 6803 Research in Public Relations and Advertising (CO 3853 or MKT 3013 or consent of instructor). 3 hours
CO 6813 Public Relations in Organizations (CO 3813 and CO 3863). 3 hours
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 the Graduate School 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 (Test of English as a Foreign Language) score of 625 PBT (263 CBT or 106 iBT) or an IELTS (International English Language Testing Systems) score of 8 or better. A applicant must submit all materials by March 15 to be considered for an assistantship.

**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 9 hours of graduate courses at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement). If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.

**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 coursework plus thesis, and a non-thesis option, calling for 33 hours of coursework. Students may pursue concentrations in Creative Writing or the Teaching of English as a Second Language. External minors are also available.

**General Program Requirements**
- A seminar in bibliography and research methods, offered each fall, is required of every student.
- 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.
- 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 fourth full semester.

**Teaching English to Speakers of Other Languages (TESOL) Graduate Certificate Program**
Dr. Lyn Wright Fogle
317C Lee Hall
PO Drawer E
Mississippi State, MS 39762
Telephone: 662-325-3644
E-mail: ewf30@msstate.edu

The Certificate in the Teaching of English to Speakers of Other Languages (TESOL) is designed to provide students with the theoretical and practical knowledge needed to begin a career in English language teaching. The program requires 15 credit hours (5 courses) in linguistics and English language teaching methods that introduce students to basic methods of linguistic analysis and principles of communicative
language teaching. Students who earn the certificate will be prepared to teach English as a foreign language in countries outside the United States and English as a second language in positions inside the United States that do not require a teacher’s license.

Admission to the Certificate Program
The graduate program of the Certificate in TESOL is open to graduate students in good standing who are currently enrolled at the University in any major. Additionally, the program is open to members of the following groups who hold a BA/BS or higher degree:
- Current employees of Mississippi State University
- People currently employed as educators in Mississippi at any level
- People who have earned a degree at MSU within the previous five years

Course Requirements
Students must take all of the following courses in theoretical background (9 hours):
- EN 6403 Introduction to Linguistics
- EN 6463 Studies in Second Language Acquisition
- EN 6443 English Syntax
Students must take two of the following courses in language teaching methodology (6 hours):
- EN 6433 Approaches to TESOL
- EN 6453 Methods in TESOL
- EN 6493 TESOL Practicum

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 (Completion of EN 1103 and EN 1113 or their equivalent and Junior standing, or consent of instructor). 3 hours
- EN 6233 Composition Pedagogy. (EN 1113 or consent of instructor). 3 hours
- EN 6243 Writing Center Tutor Training (B or better in EN 1113 and consent of instructor). 3 hours
- EN 6303 Craft of Poetry (EN 3303 or consent of instructor). 3 hours
- EN 6313 Craft of Fiction (EN 3903 or consent of instructor). 3 hours
- EN 6323 Literary Criticism from Plato to the Present. 3 hours
- EN 6333 Southern Literature. 3 hours
- EN 6343 African American Literature (completion of English requirements in the student’s major). 3 hours
- EN 6353 Critical Theory Since 1900. 3 hours
- EN 6403 Introduction to Linguistics [same as AN 4403/6403]. 3 hours
- EN 6413 History of the English Language (Completion of twelve hours of English). 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
- EN 6453 Methods in TESOL (EN 4403/6403 or permission of instructor). 3 hours
- EN 6463 Studies in Second Language Acquisition (EN 4403/6403 or consent of instructor). 3 hours
- EN 6493 TESOL Practicum (EN 4403/6403). 3 hours
- EN 6503 Shakespeare. 3 hours
- EN 6513 Shakespeare. 3 hours
- EN 6523 Chaucer. 3 hours
- EN 6533 Milton. 3 hours
- EN 6623 Language and Culture (EN 4403/6603 or consent of instructor). 3 hours
- EN 6633 Sociolinguistics (EN 4403 or consent of instructor). 3 hours
- EN 6643 The Eighteenth-Century British Novel (Completion of 12 hours of English). 3 hours
- EN 6653 The Nineteenth-Century British Novel. 3 hours
- EN 6663 The British and Irish Novel Since 1900 (completion of English Requirements in the student’s major). 3 hours
- EN 6673 British Literature and Culture from 1600-1700 (Completion of English requirements in student’s major). 3 hours
- EN 6703 English Literature of the Sixteenth Century (Completion of English requirements in the student’s major). 3 hours
- EN 6713 English Literature of the Seventeenth Century (Completion of 12 hours of English). 3 hours
- EN 6723 British Literature and Culture from 1600-1700 (Completion of English requirements in the student’s major). 3 hours
- EN 6733 British Literature and Culture of the Eighteenth-Century (Completion of the English requirements in the student’s major). 3 hours
- EN 6803 Types of Drama Since 1900. 3 hours
- EN 6813 The World Novel Since 1900 (completion of English requirements in the student’s major). 3 hours
- EN 6823 Poetry Since 1900. 3 hours
- EN 6833 The American Short Story (Completion of English requirements in the student’s major). 3 hours
EN 6863 The Romantic Poets and Prose Writers. 3 hours
EN 6883 Victorian Poets and Prose Writers. 3 hours
EN 6903 American Literature: 1800-1860. 3 hours
EN 6913 American Literature: 1860-1900. 3 hours
EN 6923 The American Novel Since 1900. 3 hours
EN 6933 Survey of Contemporary Literature. 3 hours
EN 6943 Form and Theory of Fiction. 3 hours
EN 6953 Form and Theory of Poetry. 3 hours
EN 6990 Special Topics in English. 1-9 hours
EN 7000 Directed Individual Study. 1-3 hours
EN 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
EN 8103 Seminar in Graduate Research Methods. 3 hours
EN 8333 Studies in Southern Literature. 3 hours
EN 8513 Studies in English Literature to 1485. 3 hours
EN 8523 Studies in English Literature 1485-1660. 3 hours
EN 8533 Studies in English Literature 1660-1832. 3 hours
EN 8543 Studies in English Literature 1832-1900. 3 hours
EN 8553 Studies in American Literature to the Civil War. 3 hours
EN 8563 Studies in American Literature from the Civil War to 1914. 3 hours
EN 8573 Studies in Literature Since 1900. 3 hours
EN 8583 Selected Topics in Language and Literature. 3 hours
EN 8593 Studies in Post-Colonial Literature. 3 hours
EN 8990 Special Topics in English. 1-9 hours

Classical and Modern Languages and Literature
Dr. Jack Jordan, Department Head
Dr. Robert Harland, Graduate Coordinator (Fall)
Dr. Edward Potter, Graduate Coordinator (Spring and Summer)
300 Lee Hall
Box FL
Mississippi State, MS 39762
Telephone: 662-325-3480
E-mail: jordan@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.A. program in Foreign Languages. International students are required to have a TOEFL (Test of English as a Foreign Language) score of 525 PBT (193 CBT or 70 iBT) or an IELTS (International English Language Testing Systems) score of 6 or better for consideration. In order to be considered for an assistantship, applicants must submit all materials, including the Application for Graduate Assistantship, by April 1.

Program of Study/Completion Requirements
Thesis and non-thesis options are available. The thesis option requires satisfactory completion of 24 semester hours of coursework and 6 semester hours of thesis 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 coursework taken and a Departmental Graduate Reading List and (where applicable) an oral defense of the thesis. Knowledge of the Departmental Graduate Reading List is required of all master’s candidates and will be tested in the comprehensive oral examination, which is a formal requirement for the degree. 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—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 a 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 9 hours of graduate-level courses on his or her program of study taken at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement) in order to achieve regular status. If a 3.00 is not attained, the provisional student will be dismissed from graduate study. A provisional student is ineligible 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 preliminary/comprehensive 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 preliminary/comprehensive 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. In order to be considered for an assistantship, applicants must submit all materials, including the Application for Graduate Assistantship, by April 1. For additional information, contact the head of the Department of Classical and Modern Languages and Literature, Box FL, Mississippi State, MS 39762 or fax 662-325-8209.

**Graduate Courses**—Course prerequisites are noted in parentheses.

**French:**
- FLF 6053 19th Century Studies: Baudelaire Seminar (FLF 3124 or consent of instructor). 3 hours
- FLF 6063 French Drama of the 19th Century (FLF 3523 or consent of instructor). 3 hours
- FLF 6073 French Drama of the 20th Century (FLF 3523 or consent of instructor). 3 hours
- FLF 6083 Survey of French Lyric Poetry (FLF 3513 or consent of instructor). 3 hours
- FLF 6093 French Novel and Short Story of the 19th Century (FLF 3523 or consent of instructor). 3 hours
- FLF 6103 French Novel and Short Story of the 20th Century (FLF 3513 or consent of instructor). 3 hours
- FLF 6113 French Stylistics (FLF 3114 and FLF 3124 or consent of instructor). 3 hours
- FLF 6143 17th-Century French Literature (FLF 3513). 3 hours
- FLF 6153 French Classicism (FLF 3513 or consent of instructor). 3 hours
- FLF 6173 Introduction to Francophone Cinema (FLF 3124 or consent of instructor). 3 hours
- FLF 6193 18th Century French Literature (FLF 2143 or equivalent). 3 hours
- FLF 6213 Historical Grammar (FLF 3114 and FLF 3124 or consent of instructor). 3 hours
- FLF 6223 French Novel Before 1945 (FLF 2143 or the equivalent). 3 hours
- FLF 6233 Modern French Poetry (FLF 2143 or the equivalent). 3 hours
- FLF 6273 The Human Condition (FLF 2143 or the equivalent). 3 hours
- FLF 6313 intensive Advanced French for Teachers (Teacher certification in French or consent of instructor). 3 hours
- FLF 6323 Studies in the 20th Century: Le Clézio Seminar (FLF 2143 or the equivalent). 3 hours
- FLF 6333 19th Century Studies: Decadents, Dandies, and Bohemians. 3 hours
- FLF 6553 French Readings for Graduates I. 3 hours
- FLF 6573 French Readings for Graduates II (FLF 6563 or consent of instructor). 3 hours
- FLF 6990 Special Topics in French. 1-9 hours
- FLF 7000 Directed Individual Study. 1-6 hours
- FLF 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
- FLF 8063 Seminar in French Drama of the 19th Century. 3 hours
- FLF 8073 Seminar in French Drama of the 20th Century. 3 hours
- FLF 8093 Seminar in the French Novel of the 19th Century. 3 hours
- FLF 8103 Seminar in the French Novel of the 20th Century. 3 hours
- FLF 8113 Seminar in French Classical and Neo-Classical Comedy. 3 hours
- FLF 8123 Seminar in the French Novel and Short Story of the Renaissance and Classical Period. 3 hours
- FLF 8213 Old French. 3 hours
- FLF 8223 Seminar in French Classical and Neo-Classical Tragedy. 3 hours
- FLF 8990 Special Topics in French. 1-9 hours

**German:**
- FLG 6113 German Stylistics (FLG 3124). 3 hours
- FLG 6153 Applied Linguistics: German Phonology and Morphology (FLG 3124 or consent of instructor). 3 hours
- FLG 6163 History of the German Language (FLG 3124). 3 hours
- FLG 6193 Introduction to Middle High German (FLG 3513 or consent of instructor). 3 hours
- FLG 6303 German Film (FLG 2143 or equivalent). 3 hours
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<tr>
<td>FLG 6353</td>
<td>German Novella (FLG 2143 or equivalent).</td>
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<td>FLG 6413</td>
<td>Early German Literature (FLG 3513 or consent of instructor).</td>
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<tr>
<td>FLG 6423</td>
<td>German Literature of the Age of Luther (FLG 3513 or equivalent).</td>
<td>3 hours</td>
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<td>FLG 6433</td>
<td>Enlightenment and Storm and Stress (FLG 3513 or equivalent).</td>
<td>3 hours</td>
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<td>FLG 6443</td>
<td>German Classicism and Romanticism (FLG 3513).</td>
<td>3 hours</td>
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<td>FLG 6453</td>
<td>19th Century German Literature (FLG 3213 or equivalent).</td>
<td>3 hours</td>
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<td>FLG 6463</td>
<td>German Drama of the 20th Century (FLG 3523).</td>
<td>3 hours</td>
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<td>FLG 6473</td>
<td>German Novel and Short Story of the 20th Century (FLG 3523).</td>
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<td>FLG 6483</td>
<td>Survey of German Lyric Poetry (FLG 3513).</td>
<td>3 hours</td>
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<tr>
<td>FLG 6493</td>
<td>Mysteries in Literature &amp; Film (FLG 2143 or equivalent).</td>
<td>3 hours</td>
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<tr>
<td>FLG 6503</td>
<td>German Literature to 1750 (FLG 2143 or equivalent).</td>
<td>3 hours</td>
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<tr>
<td>FLG 6513</td>
<td>Nietzsche: Literature and Values (taught in English).</td>
<td>3 hours</td>
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<td>FLG 6523</td>
<td>German Literature 1750 to Present (FLG 2143 or equivalent).</td>
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<td>FLG 6563</td>
<td>German Readings for Graduate I.</td>
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<td>FLG 6573</td>
<td>German Readings for Graduates II (FLG 6563 or consent of instructor).</td>
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<td>Special Topics in German.</td>
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<td>Directed Individual Study.</td>
<td>1-6 hours</td>
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<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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<tr>
<td>FLG 8213</td>
<td>Seminar in Middle High German.</td>
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<td>FLG 8413</td>
<td>German Literature of the Middle Ages.</td>
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<tr>
<td>FLG 8423</td>
<td>German Literature of the Reformation and Baroque.</td>
<td>3 hours</td>
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<tr>
<td>FLG 8443</td>
<td>18th Century German Drama (Graduate standing).</td>
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<td>FLG 8483</td>
<td>20th Century Short Story (Graduate standing).</td>
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<td>Russian:</td>
<td>FLL 8990 Special Topics in Latin.</td>
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<td>FLR 6990</td>
<td>Special Topics in Russian.</td>
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<td>FLR 8990</td>
<td>Special Topics in Russian.</td>
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<td>Spanish:</td>
<td>FLS 6223 Spanish Novel of the Golden Age (FLS 3513).</td>
<td>3 hours</td>
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<tr>
<td>FLS 6233</td>
<td>Cervantes (FLS 3513).</td>
<td>3 hours</td>
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<tr>
<td>FLS 6243</td>
<td>Modern Spanish Essay (FLS 3113, 3233 or the equivalent, or consent of instructor).</td>
<td>3 hours</td>
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<td>FLS 6263</td>
<td>Spanish Novel and Short Story of the 20th Century (FLS 3523).</td>
<td>3 hours</td>
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<td>FLS 6273</td>
<td>Modern Spanish Drama (FLS 3113, 3233 or the equivalent, or consent of instructor).</td>
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<td>FLS 6283</td>
<td>The Contemporary Spanish-American Novel and Short Story (FLS 3523 or consent of instructor).</td>
<td>3 hours</td>
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<td>FLS 6323</td>
<td>Spanish Drama of the Golden Age (FLS 3513 or consent of instructor).</td>
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<td>FLS 6333</td>
<td>Spanish Drama of the 19th Century (FLS 3523 or consent of instructor).</td>
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<td>FLS 6343</td>
<td>Spanish Drama of the 20th Century (FLS 3523 or consent of instructor).</td>
<td>3 hours</td>
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<td>FLS 6433</td>
<td>Intensive Advanced Spanish for Teachers (teacher certification in Spanish or consent of instructor).</td>
<td>3 hours</td>
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<td>FLS 6543</td>
<td>Survey of Spanish-American Literature (FLS 3523 or consent of instructor).</td>
<td>3 hours</td>
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<td>FLS 6553</td>
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<td>3 hours</td>
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<td>FLS 6563</td>
<td>Beginning Spanish Readings for Graduates.</td>
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<td>FLS 6573</td>
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<td>FLS 6623</td>
<td>Spanish Stylistics (FLS 3113 and FLS 3233 or consent of instructor).</td>
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<td>FLS 6633</td>
<td>Introduction to Spanish Linguistics (FLS 3233 or consent of instructor).</td>
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<td>FLS 6643</td>
<td>Spanish Phonology (FLS 3233 or consent of instructor).</td>
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<td>FLS 6653</td>
<td>History of the Spanish Language (FLS 3513 or consent of instructor).</td>
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<td>Special Topics in Spanish.</td>
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<td>FLS 7000</td>
<td>Directed Individual Study.</td>
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<td>FLS 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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<td>FLS 8223</td>
<td>Seminar in the Picaresque Novel.</td>
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<td>FLS 8253</td>
<td>Seminar in the Novel of the 19th Century.</td>
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<td>Seminar in the Novel of the 20th Century.</td>
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<td>The Contemporary Spanish-American Novel and Short Story.</td>
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Greek:
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Japanese:
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<td>FLJ 6990</td>
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<td>FLJ 8990</td>
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Latin:
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<td>FLL 7000</td>
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FLS 8323 Seminar in the Drama of the Golden Age. 3 hours
FLS 8333 Seminar in the Drama of the 19th Century. 3 hours
FLS 8343 Seminar in the Drama of the 20th Century. 3 hours
FLS 8513 Spanish Literature of the Middle Ages (FLS 8663). 3 hours
FLS 8663 Old Spanish. 3 hours
FLS 8990 Special Topics in Spanish. 1-9 hours

Special Graduate Courses:

FL 6013 Major Themes or Movements in Comparative Germanic and Romance Literatures. 3 hours
FL 6023 Introduction to Literary Criticism. 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

Geosciences
Dr. Darrel W. Schmitz, Department Head
Dr. Mike Brown, Graduate Coordinator
Hilbun 109
Box 5448
Mississippi State, MS 39762
Telephone: 662-325-3915
E-mail: mary@geoisci.msstate.edu

Admission
The Department of Geosciences offers graduate study leading to the Master of Science degree in Geoscience and the Doctor of Philosophy degree in Earth and Atmospheric Science. An applicant to the program must have an undergraduate GPA of at least 2.75 on a scale of 4.00 for entry to the master’s program and at least 3.00 at both the undergraduate and graduate level for entry to the doctoral program. The general GRE is required of all on-campus applicants.

Although helpful, an undergraduate background in Geosciences is not a prerequisite for admission into the M.S. in Geoscience program. Applicants to the master’s program in the Broadcast or Professional Meteorology concentrations are required to have passed Calculus I prior to arrival on campus, and the completion of Calculus II will greatly improve the chances of being accepted. All other master’s applicants are recommended to have completed Calculus I.

It is expected that applicants to the doctoral program will have a completed thesis-based master’s degree and have a background in one of the departmental concentrations. Applicants from other science disciplines will be considered on a by-case basis. All applicants for the Doctoral program must identify a mentor (dissertation supervisor) prior to acceptance into the program. Some mentors may require a qualifying examination prior to acceptance into the program. Depending on the applicant’s emphasis area of interest, Calculus I and II may be required for admission.

The application package must contain the application for admission; at least two letters of reference; official bachelor’s degree transcript; official transcripts from all colleges attended after earning the bachelor’s degree (both undergraduate and graduate work); and a statement of purpose. An applicant for the Main Campus program is required to take the GRE. A student admitted to the Broadcast Meteorology concentration can only begin studies in the fall term. The application deadline for consideration for assistantship funding is March 15.

A Master of Arts degree in Interdisciplinary Sciences (Teachers in Interdisciplinary Sciences) is also available through distance learning. A 21-hour emphasis in Geosciences is complemented by 15 required hours from Biological Sciences; Chemistry; and Mathematics & Statistics in the two-year, 36-hour program intended primarily for K-12 teachers. Detailed admission, program completion, and course information is found in this publication under Master of Arts in Interdisciplinary Sciences.

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 9 hours of graduate-level courses on the program of study taken at MSU in order to achieve regular admission status. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement.

Ph.D. in Earth and Atmospheric Sciences
Program of Study/Completion Requirements
The doctoral program will include 36 hours beyond the master’s and the completion of a dissertation. Written and oral comprehensive examinations are administered at the end of required coursework. A dissertation proposal defense is also required.
The approved curriculum for the Ph.D. includes the following courses.

**Major Core**:
- GG 8561 Geoscience Seminar
- GG 8572 Geologic Literature or GR 8542 Geographic Literature
- GR 8553 Research Methods in Geoscience

**8000 Level** – unspecified:
Listed below in this section are the 8000-level courses offered within the Department of Geosciences. At the discretion of the student’s Ph.D. committee, other 8000-level courses offered from MSU may also be used to satisfy this requirement.

**GG 9000 Dissertation Research**: 20 hours
*Note: A split-level course completed at the undergraduate level cannot be repeated on the graduate level for use on the program of study.*

**Master of Science**

**Program of Study/Completion Requirements**
Both a thesis track and a non-thesis track are available at the master’s level for both on-campus and distance learning delivery methods. The master’s thesis option requires 24 hours of coursework including GR 8542 or GG 8572, GG 8561 or committee-approved and appropriately documented substitutions, 6 hours of thesis research, a thesis, and a thesis defense and comprehensive examination.

*Note: A split-level course completed at the undergraduate level cannot be repeated on the graduate level for use on the program of study.*

The master’s non-thesis option (normally for students in the on-campus Broadcast Meteorology concentration and/or Teachers in Geosciences or Applied Meteorology in the off-campus concentrations) requires 36 hours of coursework including a research methods course, a research project presentation, and a written and oral comprehensive examination. A split-level course completed at the undergraduate level cannot be repeated on the graduate level for use on the program of study.

Both options require competency in statistics or a foreign language. Although the on-campus Broadcast Meteorology and off-campus Applied Meteorology and the Teachers in Geosciences concentrations are typically non-thesis options, a student may petition the graduate faculty to complete a thesis. The department will not approve the request unless a faculty member has agreed to serve as major professor and a committee can be assembled.

The department has on-campus concentrations in Broadcast Meteorology, Environmental Geosciences, Geography, Geology, Geospatial Sciences, and Professional Meteorology/Climatology.

The department also offers distance-learning concentrations through the Applied Meteorology Program (AMP) and the Teachers In Geosciences (TIG) master’s program as well as a certificate in Geographic Information Systems (GIS) by utilizing DVDs, streamed video, and the Internet for course instruction. The TIG concentration is primarily designed for in-service teachers, and additional graduate coursework in the Geosciences is available to students who have completed the Teachers in Geosciences program. The AMP is designed for individuals who are already in meteorological, environmental, or hazards-related careers.

A student who is admitted in the graduate program in Geosciences in the broadcast meteorology concentration must successfully complete a background assessment test in meteorology. The 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. A student admitted to the Applied Meteorology Program (AMP) must hold a B.S. degree and have completed GR 4713 Synoptic Meteorology or its equivalent.

**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 concentration 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.

**Concentration Descriptions**
The Broadcast Meteorology concentration is designed for students intending to pursue meteorology careers in media. This non-thesis master’s degree combines meteorology coursework with the Practicum in Broadcast Meteorology sequence.

The Professional Meteorology/Climatology concentration is thesis-based and is intended to prepare students for forecasting careers or further graduate study.
The Geology concentration is thesis-based and intended to prepare students for careers in professional geology or further graduate study.

The Geography concentration is a thesis-based program appropriate for students interested in studying the spatial distribution of cultural and physical features across the Earth's surface. It can be tailored toward specific interests in either human or physical geography.

The concentration in Geospatial Sciences is a thesis-based program designed to prepare students to use geospatial technologies to provide insight into Earth and atmospheric processes.

The concentration in Environmental Geosciences is a thesis-based program intended for students interested in a broader cross-section of the geosciences.

The Teachers in Geosciences concentration is a two-year, 36 credit hour program of study offered through distance learning. It is designed primarily for K-12 science teachers.

The Applied Meteorology Program is designed for individuals with meteorological, environmental or hazards-related careers. This two-year master's degree in Geosciences is offered through distance learning by utilizing DVDs, streamed video, and the internet for course instruction.

**General Departmental Requirements**

**Thesis track**
- 6 hours Research/Thesis
- 24 hours coursework (with at least half the coursework at the 8000-level) including: GG 8561 Geoscience Seminar and GG 8572 or GR 8542 (or committee-approved substitutions with appropriate documentation)
- Demonstration of proficiency in either statistics or a foreign language
- Thesis Defense/Comprehensive Exam

**Non-thesis track**
- 36 hours of coursework (with at least 18 at the 8000-level) including GR 8553 Research Methods
- Demonstration of proficiency in either statistics or a foreign language
- Comprehensive Exam

**Specific Concentration Requirements**

**MS Geosciences, Concentration in Broadcast Meteorology (Non-thesis)**

Departmental requirements for non-thesis track and 33 additional credit hours. At least 9 credit hours should be selected from the following courses.*

- GR 6402 Weather Analysis I
- GR 6412 Weather Analysis II
- GR 6422 Weather Forecasting I
- GR 6432 Weather Forecasting II
- GR 6613 Applied Climatology
- GR 6623 Physical Meteorology
- GR 6733 Synoptic Meteorology
- GR 6753 Satellite & Radar Meteorology
- GR 6823 Dynamic Meteorology I
- GR 6963 Mesoscale Meteorology
- GR 6203 Geography of North America
- GR 6813 Natural Hazards

**MS Geosciences, Concentration in Professional Meteorology/Climatology (Thesis)**

Departmental requirements for thesis track and 21 additional credit hours. At least 9 credit hours should be selected from the following courses.*

- GR 6402 Weather Analysis I
- GR 6412 Weather Analysis II
- GR 6422 Weather Forecasting I
- GR 6432 Weather Forecasting II
- GR 6613 Applied Climatology
- GR 6623 Physical Meteorology
- GR 6733 Synoptic Meteorology
- GR 6753 Satellite & Radar meteorology
- GR 6823 Dynamic Meteorology I
- GR 6933 Dynamic meteorology II
- GR 6963 Mesoscale Meteorology
- GR 6813 Natural Hazards

**MS Geosciences, Concentration in Geology (Thesis)**

Departmental requirements for thesis track and 21 additional credit hours. At least 9 credit hours should be selected from the following courses.*

- GG 6033 Resources and the Environment
- GG 6063 Development of Fossil Fuel Resources
- GG 6114 Mineralogy
- GG 6123 Petrology
- GG 6133 Principles of Paleoeoecology
- GG 6153 Engineering Geology
- GG 6201 Practicum in Paleontology
- GG 6203 Principles of Paleobiology
- GG 6233 Applied Geophysics
- GG 6304 Principles of Sedimentary Deposits I
- GG 6333 Geowriting
- GG 6403 Gulf Coast Stratigraphy
- GG 6413 Structural Geology
- GG 6433 Subsurface Methods
- GG 6443 Principles of Sedimentary Deposits II
- GG 6503 Geomorphology
- GG 6523 Coastal Environments
- GG 6613 Physical Hydrogeology
- GG 6623 Chemical Hydrogeology
- GG 8223 Advanced Paleontology
- GG 8443 Advanced Structural Geology

*Note: A split-level course completed at the undergraduate level cannot be repeated on the graduate level for use on the program of study.*
MS Geosciences, Concentration in Geography (Thesis)
Departmental requirements for thesis track and 21 additional credit hours. At least 9 credit hours should be selected from the following courses.*
GR 6123 Urban Geography
GR 6203 Geography of North America
GR 6213 Geography of Latin America
GR 6223 Geography of Europe
GR 6233 Geography of Asia
GR 6243 Geography of Russia and the Former Soviet Republics
GR 6253 Geography of Africa
GR 6263 Geography of the South
GR 6283 Geography of the Islamic World
GR 8313 Advanced Cultural Geography

MS Geosciences, Concentration in Geospatial Sciences (Thesis)
Departmental requirements for thesis track and 21 additional credit hours. At least 9 credit hours should be selected from the following courses.*
GR 6303 Principles of GIS
GR 6313 Advanced GIS
GR 6323 Cartographic Sciences
GR 6333 Remote Sensing of the Physical Environment
GR 6363 Geographic Information Systems Processing
GR 6411 Remote Sensing Seminar
GR 8303 Geodatabase Systems

MS Geosciences, Concentration in Environmental Geosciences (Thesis)
Departmental requirements for thesis track and 21 additional credit hours. At least 9 credit hours should be selected from the following courses.*
GG 6033 Resources and the Environment
GG 6063 Development of Fossil Fuel Resources
GG 6503 Geomorphology
GG 6523 Coastal Environments
GR 6123 Urban Geography
GG 6613 Applied Climatology
GR 6813 Natural Hazards
GG 6613 Water Resources

MS Geosciences, Teachers in Geosciences Concentration (non-thesis)
Departmental requirements for non-thesis track and 33 additional credit hours including 30 credits from the following courses.*
GR 8113 Meteorology I: Observations
GR 8113 Geology I: Processes and Products
GR 8123 Meteorology II: Forecasting and Storms
GG 8123 Geology II: Earth, Time and Life
GR 6603 Climatology
GG 8203 Ocean Science
GG 8333 Planetary Science

MS Geosciences, Concentration in Applied Meteorology (Non-thesis)
Departmental requirements for non-thesis track, plus either GR 8573 Research in Applied Meteorology or 3 credits of GR 8400 Field Methods in Geosciences. Students must complete 30 hours of additional credits from the following courses. Students must complete 30 hours of additional credits from the following courses.*
GR 6303 Principles of GIS
GR 6313 Advanced GIS
GR 6333 Remote Sensing of the Physical Environment
GR 6473 Numerical Weather Prediction
GR 6603 Climatology
GR 6753 Satellite and Radar Meteorology
GR 6823 Dynamic Meteorology I
GR 6923 Severe Weather
GR 6933 Dynamic Meteorology II
GR 6943 Tropical Meteorology
GG 8203 Ocean Science
GG 8233 Environmental Geoscience
GG 8613 Hydrology
GR 8613 Hydrometeorology
GR 8633 Climate Change
GR 8813 Advanced Hazards and Disasters
GR 8833 Weather and Society

*Substitutions may be made with the approval of the major professor and committee and with appropriate documentation. They must be noted on the program of study.

Graduate Courses—Course prerequisites are noted in parentheses.
GG 6033 Resources and the Environment (Consent of instructor). 3 hours
GG 6063 Development of Fossil Fuel Resources (Consent of instructor). 3 hours
GG 6113 Micropaleontology (GG 1123 or equivalent). 3 hours
GG 6114 Mineralogy (GG 1113 and CH 1223 or equivalents). 4 hours
GG 6123 Petrology (GG 4114/6114 or equivalent). 3 hours
GG 6133 Principles of Paleobiology (GG 1123 or equivalent or consent of instructor). 3 hours
GG 6153 Engineering Geology (GG 1113 or equivalent). 3 hours
GG 6201 Practicum in Paleontology (GG 1123 or equivalent). 1 hour
GG 6203 Principles of Paleobiology (GG 1123 or equivalent). 3 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GG 6233</td>
<td>Applied Geophysics (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>GG 6304</td>
<td>Principles of Sedimentary Deposits I (GG 4114/6114 or consent of instructor)</td>
<td>4 hours</td>
</tr>
<tr>
<td>GG 6333</td>
<td>Geowriting</td>
<td>3 hours</td>
</tr>
<tr>
<td>GG 6403</td>
<td>Gulf Coast Stratigraphy (GG 4304/6304 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>GG 6413</td>
<td>Structural Geology (GG 4123/6123 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>GG 6433</td>
<td>Subsurface Methods (GG 4304/6304 or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>GG 6443</td>
<td>Principles of Sedimentary Deposits II (GG 4304/6304 or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>GG 6503</td>
<td>Geomorphology (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>GG 6523</td>
<td>Coastal Environments (GG 1113, GR 1114 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>GG 6613</td>
<td>Physical Hydrogeology (GG 3613 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>GG 6623</td>
<td>Chemical Hydrogeology (CE 3523, CE 8563, or GG 4613/6613 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>GG 6990</td>
<td>Special Topics in Geology</td>
<td>1-9 hours</td>
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<tr>
<td>GG 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
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<tr>
<td>GG 8000</td>
<td>Thesis Research/Thesis</td>
<td>Hours and credits to be arranged; minimum of 6 hours required for degree</td>
</tr>
<tr>
<td>GG 8113</td>
<td>Processes and Products (Consent of instructor)</td>
<td>3 hours video and online</td>
</tr>
<tr>
<td>GG 8123</td>
<td>Geology II: Earth and Time (GG 8113 or consent of instructor)</td>
<td>3 hours video and online</td>
</tr>
<tr>
<td>GG 8133</td>
<td>Rocks and Minerals (Consent of instructor)</td>
<td>3 hours video and online</td>
</tr>
<tr>
<td>GG 8164</td>
<td>Earth Sciences I (Consent of department head)</td>
<td>4 hours</td>
</tr>
<tr>
<td>GG 8203</td>
<td>Ocean Science (GG 8113 or consent of instructor)</td>
<td>3 hours video and online</td>
</tr>
<tr>
<td>GG 8223</td>
<td>Advanced Paleontology (GG 4203/6203 or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>GG 8233</td>
<td>Environmental Geoscience (GG 8113 or consent of instructor)</td>
<td>3 hours video and online</td>
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<tr>
<td>GG 8323</td>
<td>History of Life (Consent of instructor)</td>
<td>3 hours video and online</td>
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<tr>
<td>GG 8333</td>
<td>Planetary Science (GG 8113 or consent of instructor)</td>
<td>3 hours video and online</td>
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<tr>
<td>GG 8423</td>
<td>Earthquakes and Volcanoes (Consent of instructor)</td>
<td>3 hours video and online</td>
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<tr>
<td>GG 8443</td>
<td>Advanced Structural Geology (Major in geology including GG 4413/6613 or equivalent)</td>
<td>3 hours</td>
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<tr>
<td>GG 8561</td>
<td>Geoscience Seminar.</td>
<td>1 hour</td>
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<tr>
<td>GG 8572</td>
<td>Geologic Literature (Major in geology)</td>
<td>2 hours</td>
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<tr>
<td>GG 8613</td>
<td>Hydrology (GG 8113 or consent of instructor)</td>
<td>3 hours video and online</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>GR 6623</td>
<td>Physical Meteorology (GR 1603).</td>
<td>3 hours</td>
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<tr>
<td>GR 6633</td>
<td>Statistical Climatology (GR 1603 or GG 1113 or equivalent and MA 1313 or MA 1713).</td>
<td>3 hours</td>
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<tr>
<td>GR 6640</td>
<td>Meteorological Internship (Consent of instructor).</td>
<td>1-6 hours</td>
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<tr>
<td>GR 6713</td>
<td>Synoptic Meteorology I (GR 1603 or equivalent).</td>
<td>3 hours</td>
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<td>GR 6733</td>
<td>Synoptic Meteorology II (GR 1603 and MA 1713).</td>
<td>3 hours</td>
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<tr>
<td>GR 6753</td>
<td>Satellite and Radar Meteorology (GR 1603).</td>
<td>3 hours</td>
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<tr>
<td>GR 6813</td>
<td>Natural Hazards and Processes (GR 1114 or equivalent).</td>
<td>3 hours</td>
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<tr>
<td>GR 6823</td>
<td>Dynamic Meteorology I (GR 4733/6733).</td>
<td>3 hours</td>
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<tr>
<td>GR 6842</td>
<td>Forecasting Severe Local Storms (Consent of instructor).</td>
<td>3 hours</td>
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<tr>
<td>GR 6913</td>
<td>Thermodynamic Meteorology (GR 4723/6723 or equivalent).</td>
<td>3 hours</td>
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<tr>
<td>GR 6923</td>
<td>Severe Weather (GR 4913/6913 or equivalent).</td>
<td>3 hours</td>
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<tr>
<td>GR 6933</td>
<td>Dynamic Meteorology II (GR 4823/6823).</td>
<td>3 hours</td>
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<tr>
<td>GR 6943</td>
<td>Tropical Meteorology (Consent of instructor).</td>
<td>3 hours</td>
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<tr>
<td>GR 6963</td>
<td>Mesoscale Meteorology (GR 4913/6913).</td>
<td>3 hours</td>
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<tr>
<td>GR 6990</td>
<td>Special Topics in Geosciences.</td>
<td>1-9 hours</td>
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<tr>
<td>GR 7000</td>
<td>Directed Individual Study.</td>
<td>1-6 hours</td>
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<tr>
<td>GR 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree.</td>
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<tr>
<td>GR 8113</td>
<td>Meteorology I: Observations (Consent of instructor).</td>
<td>3 hour video and online</td>
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<tr>
<td>GR 8123</td>
<td>Meteorology II: Forecasting and Storms (GR 8113 or consent of instructor).</td>
<td>3 hours video and online</td>
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<tr>
<td>GR 8303</td>
<td>Geodatabase Systems (Consent of instructor).</td>
<td>3 hours</td>
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<tr>
<td>GR 8313</td>
<td>Advanced Cultural Geography (Consent of instructor).</td>
<td>3 hours</td>
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<td>GR 8323</td>
<td>Geography for Teachers.</td>
<td>3 hours</td>
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<tr>
<td>GR 8333</td>
<td>Field Techniques in Remote Sensing (Either GR 4333/6333, ECE 4423/6423 or FO 4452/6452 or consent of instructor).</td>
<td>3 hours</td>
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<td>GR 8400</td>
<td>Field Methods in Geoscience (Consent of instructor).</td>
<td>1-3 hours</td>
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<tr>
<td>GR 8542</td>
<td>Geographic Literature (Major or minor in geography).</td>
<td>2 hours</td>
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<tr>
<td>GR 8553</td>
<td>Research Methods in Geosciences (Consent of instructor).</td>
<td>3 hours</td>
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<tr>
<td>GR 8563</td>
<td>GIS Research Applications (GR 6333, GR 6313, ST 8114, or equivalent, or consent of instructor).</td>
<td>3 hours</td>
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<tr>
<td>GR 8573</td>
<td>Research in Applied Meteorology (Consent of instructor).</td>
<td>3 hours</td>
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</tbody>
</table>

**History**

Dr. Alan I. Marcus, Department Head  
Dr. Peter Messer, Graduate Coordinator  
214 Allen Hall  
Box H  
Mississippi State, MS 39762  
Telephone: 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 either an overall GPA of 3.00 or 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 with their application packet to the Office of the Graduate School. 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. 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. Normally, applicants will receive an admission decision within 30 days after the receipt of all required materials by the department.

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. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. Students admitted provisionally because of inadequate undergraduate preparation in history may be asked to take additional courses at the undergraduate level.

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 area of emphasis will be drawn from one of the following subject areas: United States, European, Latin American, Asian, African, or World History. The secondary area of emphasis for a thesis student will be drawn from either another one of the above subject areas, or a topical field related to a particular region or historical phenomenon. Students can minor in a field outside of history; a minor outside of history must include at least nine semester hours. 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 or some other relevant research skill as determined by the student’s graduate committee. 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 and complete one research seminar at Mississippi State. Each candidate for the M.A. degree whose primary field of emphasis is in United States History must also complete two of the four Graduate Colloquia in United States History, one in the period before 1877 and one in the period after 1877. 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 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.

5th Year Master of Arts Degree

The History Department offers undergraduate students with an interest in history the opportunity to complete a Master of Arts in History with an additional year of post-baccalaureate study. This program offers both the thesis and non-thesis options outlined in the regular Master of Arts degree program.

Admission Criteria

Students may apply to the program once they have accumulated 60 hours of graded coursework and 15 hours of graded coursework in history. Applicants must have maintained a 3.5 GPA in both their cumulative undergraduate coursework and their coursework in history. Admission is contingent upon the student completing HI 3903 (Undergraduate Historiography and Historical Methods) with a grade of B or better. The initial application will be to the History Department’s Graduate Committee. Applicants must submit a completed graduate application form, a statement of purpose for graduate study, transcripts, and at least two letters of recommendation from history faculty members. The application deadlines for this program are November 1 and April 1. All applications will be reviewed at the start of the semester for which the student has been admitted into the program; students whose GPA has fallen below the minimum requirement or who have
failed to complete HI 3903 with a B, will be removed from the program. If a student intends to apply for this program he or she should meet with the graduate coordinator during the advising period prior to the semester for which the student intends to apply for admission to select the appropriate courses. The student must apply to the Graduate School for regular admission into the graduate program during his or her last year of enrollment as an undergraduate.

Program of Study/Completion Requirements
Students in this program must meet the same expectations regarding primary and secondary fields of emphasis, research skills, and forming a graduate committee as students in the regular M.A. program. Each candidate for the 5th year M.A. degree must complete the required coursework for either the thesis or non-thesis M.A., which includes at least 15 hours of coursework at the 7000-8000 level, HI 8923 Historiography and Historical methods, one research seminar, and for students whose field is in United States history two of the four Graduate Colloquia in United States History (HI 8933, HI 8943, HI 8953, HI 8963), one in the period before 1877 and one in the period after 1877.

Program of study as an undergraduate: In the course of completing the requirements for the student’s undergraduate degree the student may enroll in up to 9 hours of graduate courses which will count toward both the student’s undergraduate degree and the M.A. in history. These courses can be at either the 6000 or 8000 level, and the student should enroll in them for graduate credit. Once the graduate course has been completed, the student and advisor will apply to the Registrar to have the course count for undergraduate credit. Once this application is granted, the course will appear on the student’s undergraduate transcript. A split-level course will appear as the 4000-level equivalent of the 6000-level course. An 8000-level course will appear on the student’s transcript as a 4993 Special Topics course with the same name as the 8000-level course. The student may opt out of the 5th year M.A. program at any time and complete a regular undergraduate major in history. Once the student has opted out, however, no further courses will be allowed to count for both graduate and undergraduate credit.

Registration for a graduate course requires the undergraduate student to complete the Undergraduate Request to Enroll in Graduate Courses(s) form. The student can access the form at http://www.grad.msstate.edu/forms/pdf_forms/undergraduate_request_to_enroll_in_graduate_course.pdf and must submit the completed form to the Office of the Graduate School. The OGS will inform the student by email when he/she can register for the graduate course.

The student will receive the bachelor’s degree after the requirements for that degree have been met. On completion of the degree the student will be admitted into the regular graduate program provided the student has received no grade lower than a C in any course taken for graduate credit and not received more than one C in the courses taken for undergraduate credit; in either of these cases the student will be dismissed from the graduate program. If the student’s GPA in graduate-level courses is below a 3.00 the student will enter the graduate portion of the 5th Year M.A. program on academic probation and may be removed from the program if the overall GPA does not rise above 3.00 at the end of the student’s first full semester in the graduate program.

Program of study for the student’s post-baccalaureate year: In the student’s post-baccalaureate year he or she will be expected to complete either the thesis or non-thesis degree program. Students who do not complete the 5th Year M.A. program by the end of the summer following their first post-baccalaureate year will be automatically transferred into the regular M.A. program.

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 will choose a primary field of emphasis in either United States History or European History. Students are required to prepare for examination in four fields of emphasis. Two fields of emphasis will be chronological fields within the primary area of emphasis (U.S. or European). A third field of emphasis will be drawn from the department’s core areas (International Security and Internal Safety, History of Science and Technology, and Agricultural, Rural, and Environment History). The final field of emphasis will be a topical or regional field or in a discipline other than history. Fields of emphasis outside of the History Department must include at least 12 hours. The student should refer to the History Department’s list of available fields of emphasis for more information. Each student must hold a bachelor’s degree from an appropriately accredited institution of higher learning and possess qualifications indicating ability to do graduate work on a doctoral level, as determined by the department’s Graduate Committee.

The department expects that the student will normally complete at least 60 hours of coursework (40 classroom hours and 20 research hours) beyond the bachelor’s degree for the Ph.D. degree in history.
Credit earned in a master’s degree program at Mississippi State or up to 20 credit hours earned 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 at least one research skill by the end of the fourth semester of his or her enrollment in the program. This requirement may be fulfilled by demonstrating a reading knowledge of a foreign language or by demonstrating proficiency in another research skill appropriate to the student’s field of study. Each candidate is required to complete, or have completed, HI 8923 Historiography and Historical Method at Mississippi State and two research seminars. Each student is also required to select a specialization in one of the Department’s three core areas: International Security and Internal Safety, or History of Science and Technology, or Agricultural, Rural, and Environmental History. Students will be expected to complete one seminar in their chosen specialization (HI 8873, or HI 8893, or HI 8883) and three related courses chosen in consultation with the student’s graduate committee. Students whose primary field of emphasis is in United History will also be expected to complete all four of the Department’s Graduate Colloquia in United States History (HI 8933, HI 8943, HI 8953, HI 8963) or an equivalent acceptable to the graduate committee.

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 amount of coursework required of each student in the History Department may vary.

Each student must have a graduate committee composed of at least four graduate faculty members. The chairman must be from the student’s major field of emphasis 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 a second reader, who will assist the dissertation director, and at least two other members. Four members of the committee must be members of the History Department's graduate faculty.

When the student and his or her major professor agree that adequate preparation has been made, the major professor will schedule a comprehensive examination. Full-time Ph.D. students should normally take their comprehensive examinations within three years of enrollment, and part-time Ph.D. students should take their comprehensive examinations within four years of enrollment. The student must have either completed all coursework or be within 6 hours of completing the coursework. The student must have fulfilled the research skill requirement and must have met all other History Department and Graduate School requirements. Each student will take four written comprehensive examinations. Students 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 of emphasis 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 a 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 candidates 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 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, 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 coursework.

**Prerequisites and Core Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HI 6103</td>
<td>Colonial America</td>
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<tr>
<td>HI 6113</td>
<td>U.S. History 1783-1825</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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<tr>
<td>HI 6143</td>
<td>Revolutionary America</td>
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<td>HI 6153</td>
<td>U.S. History 1877-1917</td>
<td>3</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>
<td>3</td>
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<tr>
<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. 3 hours</td>
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<tr>
<td>HI 6213</td>
<td>History of Grand Strategy and International Security (Completion of any 1000-level history course or consent of instructor). 3 hours</td>
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<td>HI 6223</td>
<td>Intelligence Gathering in the 20th Century (Completion of any 1000-level history course or consent of instructor). 2 hours</td>
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<tr>
<td>HI 6233</td>
<td>American Military History (Completion of any 1000-level history course). 3 hours</td>
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<tr>
<td>HI 6243</td>
<td>American Life and Thought</td>
<td>3</td>
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<tr>
<td>HI 6253</td>
<td>Religion in America (HI 1063 or 1073)</td>
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<tr>
<td>HI 6263</td>
<td>America’s Viet Nam War</td>
<td>3</td>
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<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 6293</td>
<td>History of Gender and Science. 3 hours</td>
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<tr>
<td>HI 6303</td>
<td>The Old South. 3 hours</td>
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<td>HI 6313</td>
<td>The New South. 3 hours</td>
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<tr>
<td>HI 6323</td>
<td>The American West. 3 hours</td>
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<tr>
<td>HI 6333</td>
<td>Native American History to 1830 (Completion of any 1000 level history course). 3 hours</td>
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<tr>
<td>HI 6343</td>
<td>Native American History Since 1830 (Completion of any 1000 level history course). 3 hours</td>
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<tr>
<td>HI 6363</td>
<td>African-American History and Culture. 3 hours</td>
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<tr>
<td>HI 6373</td>
<td>History of the Modern Civil Rights Movement. 3 hours</td>
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<tr>
<td>HI 6393</td>
<td>Rural America. 3 hours</td>
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<tr>
<td>HI 6403</td>
<td>The Ancient Near East (Completion of any 1000-level history course) [Same as MEC 4403/6403 and REL 4403/6403]. 3 hours</td>
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<tr>
<td>HI 6413</td>
<td>Ancient Greece and Rome. 3 hours</td>
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<tr>
<td>HI 6423</td>
<td>Medieval Civilization. 3 hours</td>
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<tr>
<td>HI 6443</td>
<td>Renaissance and Reformation. 3 hours</td>
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<tr>
<td>HI 6493</td>
<td>Terrorism in America. 3 hours</td>
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<tr>
<td>HI 6523</td>
<td>Europe, 1789-1914. 3 hours</td>
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<tr>
<td>HI 6553</td>
<td>Science and Technology to Newton. 3 hours</td>
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<td>HI 6563</td>
<td>Viet Nam Between Revolution and War, 1940-1990. 3 hours</td>
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<td>HI 6583</td>
<td>China Since 1800. 3 hours</td>
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<tr>
<td>HI 6593</td>
<td>Japan Since 1600. 3 hours</td>
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<td>HI 6603</td>
<td>Medieval Civilization. 3 hours</td>
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<tr>
<td>HI 6613</td>
<td>History of the Soviet Union (Completion of any 1000-level history course). 3 hours</td>
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<td>HI 6643</td>
<td>Renaissance and Reformation. 3 hours</td>
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<td>HI 6653</td>
<td>The History of Science and Technology. 3 hours</td>
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<tr>
<td>HI 6673</td>
<td>Europe, 1789-1914. 3 hours</td>
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<td>HI 6683</td>
<td>Europe: The First World War to Hitler. 3 hours</td>
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<tr>
<td>HI 6693</td>
<td>Europe: The Second World War to the Common Market. 3 hours</td>
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<td>HI 6703</td>
<td>England to 1485. 3 hours</td>
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<tr>
<td>HI 6713</td>
<td>Tudor and Stuart England. 3 hours</td>
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<tr>
<td>HI 6723</td>
<td>History of Britain Since 1688. 3 hours</td>
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<td>HI 6733</td>
<td>Constitutional and Legal History of England. 3 hours</td>
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<tr>
<td>HI 6743</td>
<td>Evolution of International Politics. 3 hours</td>
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<tr>
<td>HI 6753</td>
<td>History of Russia. 3 hours</td>
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<tr>
<td>HI 6763</td>
<td>History of Modern Germany. 3 hours</td>
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<tr>
<td>HI 6773</td>
<td>History of Modern France. 3 hours</td>
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<tr>
<td>HI 6783</td>
<td>African Civilization to 1880. 3 hours</td>
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<tr>
<td>HI 6793</td>
<td>Modern Africa. 3 hours</td>
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<tr>
<td>HI 6813</td>
<td>History of Modern Civil Rights Movement. 3 hours</td>
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<tr>
<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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<tr>
<td>HI 6853</td>
<td>Modern Mexico. 3 hours</td>
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<td>HI 6883</td>
<td>US History of Medicine. 3 hours</td>
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<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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<td>HI 6923A</td>
<td>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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HI 7000  Directed Individual Study. 1-6 hours
HI 8000  Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
HI 8103  Readings in Colonial American History. 3 hours
HI 8113  Readings in U.S. History, 1783-1825. 3 hours
HI 8123  Readings in Jacksonian America. 3 hours
HI 8133  Readings in the Civil War and Reconstruction. 3 hours
HI 8153  Readings in U.S. History, 1877-1917. 3 hours
HI 8163  Reading in Contemporary United States. 3 hours
HI 8203  Readings in American Diplomatic History. 3 hours
HI 8233  Readings in American Military History. 3 hours
HI 8263  Readings in American Economic Developments. 3 hours
HI 8273  Readings in Women in American History. 3 hours
HI 8283  Readings in Women in Southern History. 3 hours
HI 8293  Readings in History of American Families. 3 hours
HI 8303  Readings in the Old South. 3 hours
HI 8313  Readings in the New South. 3 hours
HI 8323  Readings in the American West. 3 hours
HI 8353  Readings in African-American History and Culture. 3 hours
HI 8403  Readings in Ancient History. 3 hours
HI 8423  Readings in Medieval History. 3 hours
HI 8443  Readings in Renaissance and Reformation. 3 hours
HI 8503  Readings in European History, 1600-1789. 3 hours
HI 8523  Readings in European History, 1789-1914. 3 hours
HI 8533  Readings in European History, 1914-Present. 3 hours
HI 8613  Readings in English History, 1485-1714. 3 hours
HI 8623  Readings in English History Since 1714. 3 hours
HI 8733  Readings in Colonial Latin America. 3 hours
HI 8743  Readings in Latin-American Republics. 3 hours
HI 8753  Readings in Russian History. 3 hours
HI 8763  Readings in the Far East. 3 hours
HI 8773  Issues in Women’s History (Graduate standing and enrollment in Diversity Certificate program). 3 hours
HI 8803  Graduate Colloquium (Course may be repeated for credit). 3 hours
HI 8813  Seminar in U.S. History Before 1877 (Course may be repeated for credit). 3 hours
HI 8823  Seminar in U.S. History Since 1877 (Course may be repeated for credit). 3 hours
HI 8833  Seminar in Southern History (Course may be repeated for credit). 3 hours
HI 8843  Seminar in Latin-American History (Course may be repeated for credit). 3 hours
HI 8853  Seminar in European History Before 1789 (Course may be repeated for credit). 3 hours
HI 8863  Seminar in European History Since 1789 (Course may be repeated for credit). 3 hours
HI 8873  Seminar in the History of Science and Technology (Course may be repeated for credit). 3 hours
HI 8883  U.S. Agricultural History, 1500-2000. 3 hours
HI 8893  Seminar in the History of International Security and Internal Safety (Graduate standing). 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 8973  Colloquium in U.S. Environmental and Agricultural History. 3 hours
HI 8990  Special Topics in History. 1-9 hours
HI 9000  Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

Diversity Certificate Program
Dr. Alan I. Marcus
214 Allen Hall
Box H
Mississippi State, MS 39762
Telephone: 662-325-7075
E-mail: aimarcus@history.msstate.edu

The Diversity Certificate Program seeks to teach workplace success by providing the multi-cultural knowledge and skills necessary to navigate among a diverse workforce. At the heart of this post-baccalaureate program is the demand that students
learn and think critically about race, race relations, ethnicity, social class and inequality, religion, and gender. This requirement will produce employees who have the necessary sensitivity and understanding to accept important leadership challenges and to advance themselves and their workplace.

Its methods are straightforward. Each student seeking a certificate must take at least one of two courses from each of four distinct fields: History, Sociology, Gender Studies and African American Studies. Students are free to take more than the minimum number of courses; however, the program an intense immersion in one course from each area will enhance understanding sufficient for business persons to achieve objectives most sensibly and expeditiously.

The choice of these four fields is deliberate and precise. History will enable students to learn the various forces, activities and trends leading to the present day world; history grants perspective. Sociology will explore and explain the interactions among and between diverse peoples in the present day; it explores social dynamics. Both African American and Gender Studies offer a more multivariate approach. Borrowing from a number of disciplines and specialties, they offer an interdisciplinary, multicultural perspective, revealing numerous, tangible intersections among institutional sexism and racism, power relationships, economic allocation and self and group actualization.

Together, these four fields create a tightly woven package that will make a true difference both in the students who take the courses and the workplaces in which they operate. Each of the courses has a similar approach using classic writings, great thinkers and pertinent events as well as analysis and understanding of those whose voices in social settings remain obscured. Each utilizes the most recent information and insight to fashion an acute demonstration of how multicultural knowledge and understanding is essential to successful functioning in all aspects of the modern world.

**Admission**

Applicants must be graduates of accredited undergraduate institutions and be admitted by the Graduate Office either as a degree-program or unclassified graduate student. Students wishing to apply for the certificate program must submit a writing sample explaining how they plan to use the Diversity Certificate in their careers. This document is required from degree-program and unclassified graduate students and must be submitted directly to Dr. Alan Marcus. International students must obtain a TOEFL (Test of English as a Foreign Language) score of 625 PBT (263 CBT or 106 iBT) or an IELTS (International English Language Testing Systems) score of 8.0 or better.

**Requirements**

The Diversity Certificate Program requires a B or better in 12 credit hours earned by taking one course from each of the following pairs.

- History 8773 Issues in Women’s History or History 8783 Issues in African American History
- Sociology 8983 Seminar in Race Relations or Sociology 8993 Sociology of Gender
- African American Studies 8793 Race and Cultural Diversity in the Workplace or African American Studies 8613 Racism and the US Color Line
- Gender Studies 8113 Exploring Issues in Gender or Gender Studies 8103 Gender and Work

**Graduate Courses:**

- AAS 8793 Race and Cultural Diversity in the Workplace (Graduate standing and enrollment in Diversity Certificate program) [same as HI 8793]. 3 hours
- AAS 8603 Racism and the US Color Line (Graduate standing and enrollment in Diversity Certificate program) [same as HI 8603]. 3 hours
- GS 8963 Exploring Issues in Gender (Graduate standing and enrollment in Diversity Certificate program) [Same as SO 8963]. 3 hours
- GS 8973 Gender and Work (Graduate standing and enrollment in Diversity Certificate program). 3 hours
- HI 8773 Issues in Women’s History (Graduate standing and enrollment in Diversity Certificate program). 3 hours
- HI 8783 Issues in African American History (Graduate standing and enrollment in Diversity Certificate program). 3 hours
- SO 8983 Seminar in Race Relations (Graduate standing and enrollment in Diversity Certificate program). 3 hours
- SO 8993 Sociology of Gender (Graduate standing and enrollment in Diversity Certificate program). 3 hours
Mathematics and Statistics
Dr. Mohsen Razzaghi, Department Head
Dr. Corlis Johnson, Graduate Coordinator
410 Allen Hall
Drawer MA
Mississippi State, MS 39762
Telephone: 662-325-3414
Fax: 662-325-0005
E-mail: office@math.msstate.edu
Website: http://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 judgment of the departmental graduate faculty, indicate that the applicant has the ability to do graduate work at the appropriate level. A minimum score of 477 PBT (153 CBT or 53 iBT) on the Test of English as a Foreign Language (TOEFL) or a score of 4.5 on the International English Language Testing Systems (IELTS) 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. It is recommended that teaching assistantship applicants who do not have English as their native language must submit a score of at least 600 PBT (250 CBT or 100 iBT) on the TOEFL or 7.5 on the IELTS.

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. The student must have as his or her initial objective advancement to regular status. A student admitted to provisional status is eligible for advancement to regular status after receiving a 3.00 GPA on the first 9 hours of regular graduate-level courses taken at Mississippi State University. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. 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:

• A student’s failure to maintain a B average on all graduate courses attempted after admission to the program
• Failure of a Master’s Core Examination or a Ph.D. Comprehensive Area Examination
• 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 Graduate School that a student be dismissed from his/her degree program if any of the following conditions exist:

• The student’s progress in his/her degree program is deemed unsatisfactory
• The student is not making satisfactory progress toward satisfying any condition of his/her contingent admission
• The student is on academic probation and cannot meet the requirements for good academic standing within the next 9 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:

• Two failures on the Master’s Core Examination or a Ph.D. Comprehensive Area Examination
• Failure of a student in provisional status to achieve a 3.00 GPA on the first 9 hours of regular graduate level courses taken at Mississippi State University
• More than two grades below a B
• 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 in 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 preliminary/comprehensive 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.

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 coursework 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 coursework 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 6 hours of graduate courses in each of four areas of mathematics and/or statistics, at least 9 to 12 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.

For further details and specific degree requirements contact, Graduate Coordinator, Box MA, Mississippi State, MS 39762, or office@math.msstate.edu; see also http://math.msstate.edu.

Graduate Courses—Course prerequisites are noted in parentheses.
MA 6133 Discrete Mathematics (MA 3113 or consent of instructor). 3 hours
MA 6143 Graph Theory (MA 3113 or consent of instructor). 3 hours
MA 6153 Matrices and Linear Algebra (MA 3113 and MA 3253). 3 hours
MA 6163 Group Theory (MA 3163 or consent of instructor). 3 hours
MA 6173 Number Theory (MA 3113). 3 hours
MA 6243 Data Analysis I (MA 2743. Corequisite: MA 3113). 3 hours
MA 6253 Data Analysis II (MA /ST4243/6243 and MA 3113). 3 hours
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 6373 Introduction to Partial Differential Equations (MA 3253). 3 hours
MA 6513 Applied Probability and Statistics for Secondary Teachers (MA 1723). 3 hours
MA 6523 Introduction to Probability (MA 2733) [Same as ST 6523]. 3 hours
MA 6533 Introductory Probability and Random Processes (MA 3113 and MA 2743). 3 hours
MA 6543 Introduction to Mathematical Statistics I (MA 2743) [Same as ST 6543]. 3 hours
MA 6573 Introduction to Mathematical Statistics II (MA 4543/6543) [Same as ST 6573]. 3 hours
MA 6633 Advanced Calculus I (MA 2743 and MA 3053). 3 hours
MA 6643 Advanced Calculus II (MA 4633/6633). 3 hours
MA 6733 Linear Programming (MA 3113) [Same as IE 6733]. 3 hours
MA 6753 Applied Complex Variables (MA 2743). 3 hours
MA 6933 Mathematical Analysis I (MA 4633/6633 or equivalent). 3 hours
MA 6943 Mathematical Analysis II (MA 4933/6933). 3 hours
MA 6953 Elementary Topology (MA 4633/6633). 3 hours
MA 6990 Special Topics in Mathematics. Hours and credits to be arranged.
MA 7000 Directed Individual Study. Hours and credits to be arranged.
MA 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
MA 8113 Modern Higher Algebra I (MA 4163/6163). 3 hours
MA 8123 Modern Higher Algebra II (MA 8113). 3 hours
MA 8203 Foundations of Applied Mathematics I (MA 3113, MA 3253 or consent of instructor). 3 hours
MA 8213 Foundations of Applied Mathematics II (MA 8203). 3 hours
MA 8253 Operational Mathematics (MA 4753/6753). 3 hours
MA 8273 Special Functions (One of the following: MA 4633/6633, MA 4153/6153, MA 4753/6753). 3 hours
MA 8283 Calculus of Variations (One of the following: MA 4633/6633, MA 4153/6153, MA 4753/6753). 3 hours
MA 8293 Integral Equations (One of the following: MA 4633/6633, MA 4153/6153, MA 4753/6753). 3 hours
MA 8313 Ordinary Differential Equations I (One of the following: MA 4633/6633, MA 4153/6153, MA 4753/6753). 3 hours
MA 8323 Ordinary Differential Equations II (MA 8313). 3 hours
MA 8333 Partial Differential Equations I (MA 4373/6373). 3 hours
MA 8343 Partial Differential Equations II (MA 8333). 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 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 8633 Real Analysis I (MA 4943/6943). 3 hours
MA 8643 Real Analysis II (MA 8633). 3 hours
MA 8663 Functional Analysis I (MA 8643). 3 hours
MA 8673 Functional Analysis II (MA 8663). 3 hours
MA 8713 Complex Analysis I (MA 4943/6943 or consent of instructor). 3 hours
MA 8723 Complex Analysis II (MA 8713). 3 hours
MA 8913 Introduction to Topology I (MA 4643/6643 or MA 4953/6953). 3 hours
MA 8923 Introduction to Topology II (MA 8913). 3 hours
MA 8981 Teaching Seminar (May be taken for credit more than once). 1 hour
MA 8990 Special Topics in Mathematics. Hours and credits to be arranged.
MA 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree
MA 9313 Selected Topics in Ordinary Differential Equations (MA 8313 and consent of instructor) (may be taken for credit more than once). 3 hours
MA 9333 Selected Topics in Partial Differential Equations (MA 8333 and consent of instructor) (may be taken for credit more than once). 3 hours
MA 9413 Selected Topics in Numerical Analysis (Consent of instructor) (May be taken for credit more than once). 3 hours
MA 9633 Selected Topics in Analysis (MA 8643 and consent of instructor) (May be taken for credit more than once). 3 hours

Statistics
Admission Criteria
Graduate study is offered in the Department of Mathematics and Statistics leading to the degrees of Master of Science in Statistics and Doctor of Philosophy in Mathematical Sciences. Admission to the master’s degree program in statistics is open to graduates in all disciplines. An applicant must submit three letters of recommendation and transcripts from all former institutions attended. The student must present the equivalent of a bachelor’s degree, 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 judgment of the departmental graduate faculty, indicate that the applicant has the ability to do graduate work at the appropriate level. A minimum score of 477 PBT (153 CBT or 53 iBT) on the Test of English as a Foreign Language (TOEFL) or 4.5 on the International English Language Testing Systems (IELTS) 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. It is recommended that teaching assistantship applicants who do not have English as their native language must submit a score of at least 600 PBT (250 CBT or 100 iBT) on the TOEFL or 7.5 on the IELTS.

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. The student must have as his or her initial objective advancement to regular status. A student admitted to provisional status is eligible for advancement to regular status after receiving a 3.00 GPA on the first 9 hours of regular graduate-level courses taken at
Mississippi State University. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. 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:

- A student’s failure to maintain a B average on all graduate courses attempted after admission to the program
- Failure of a Master’s Core Examination or a Ph.D. Comprehensive Area Examination
- 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 Graduate School that a student be dismissed from his/her degree program if any of the following conditions exist:

- The student’s progress in his/her degree program is deemed unsatisfactory
- The student is not making satisfactory progress toward satisfying any condition of his/her contingent admission
- The student is on academic probation and cannot meet the requirements for good academic standing within the next 9 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:

- Two failures on the Master’s Core Examination or a Ph.D. Comprehensive Area Examination
- Failure of a student in provisional status to achieve a 3.00 GPA on the first 9 hours of regular graduate level courses taken at Mississippi State University
- More than two grades below a B
- 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 in 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 preliminary/comprehensive 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.

**Program of Study/Completion Requirements**

The thesis option of the Master of Science in Statistics requires 30 hours of coursework and a thesis. The non-thesis option requires a project and 33 additional hours of coursework. 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 6 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.
For further details and specific degree requirements, contact Graduate Coordinator, Box MA, Mississippi State, MS 39762, or office@math.msstate.edu; see also http://math.msstate.edu.

Graduate Courses—Course prerequisites are noted in parentheses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST 6111</td>
<td>Seminar in Statistical Packages</td>
<td>1 hour</td>
</tr>
<tr>
<td>ST 6211</td>
<td>Statistical Consulting (Consent of instructor)</td>
<td>1 hour</td>
</tr>
<tr>
<td>ST 6213</td>
<td>Nonparametric Methods (Introductory course in statistical methods)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ST 6243</td>
<td>Data Analysis I (MA 2743. Corequisite: MA 3113)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ST 6253</td>
<td>Data Analysis II (MA/ST 4243/6243 and MA 3113)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ST 6313</td>
<td>Introduction to Spatial Statistics (Grade of C or better in ST 3123 or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ST 6523</td>
<td>Introduction to Probability (MA 2733)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ST 6543</td>
<td>Introduction to Mathematical Statistics I (MA 2743) (Same as MA 6543)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ST 6573</td>
<td>Introduction to Mathematical Statistics II (ST 6543) (Same as MA 6573)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ST 6990</td>
<td>Special Topics in Statistics</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>ST 7000</td>
<td>Directed Individual Study</td>
<td>Hours and credits to be arranged</td>
</tr>
<tr>
<td>ST 8000</td>
<td>Thesis Research/Thesis</td>
<td>Hours and credits to be arranged; minimum of 6 hours required for degree</td>
</tr>
<tr>
<td>ST 8114</td>
<td>Statistical Methods (MA 1313)</td>
<td>4 hours</td>
</tr>
<tr>
<td>ST 8214</td>
<td>Design and Analysis of Experiments (ST 8114)</td>
<td>4 hours</td>
</tr>
<tr>
<td>ST 8253</td>
<td>Regression Analysis (ST 8114 or equivalent)</td>
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</tr>
<tr>
<td>ST 8263</td>
<td>Advanced Regression Analysis (ST 8253)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ST 8313</td>
<td>Introduction to Survey Sampling (ST 8114)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ST 8353</td>
<td>Statistical Computations (ST 8114)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ST 8413</td>
<td>Multivariate Statistical Methods (ST 8253)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ST 8533</td>
<td>Applied Probability (ST 4543/6543)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ST 8603</td>
<td>Applied Statistics (ST 4253/6253 or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ST 8613</td>
<td>Linear Models I (ST 4573/6573 and ST 4253/6253)</td>
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<td>ST 8633</td>
<td>Linear Models II (ST 8613)</td>
<td>3 hours</td>
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<tr>
<td>ST 8853</td>
<td>Advanced Design of Experiments I (ST 8603 or ST 8214)</td>
<td>3 hours</td>
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<tr>
<td>ST 8863</td>
<td>Advanced Design of Experiments II (ST 8853 and ST 8613)</td>
<td>3 hours</td>
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<tr>
<td>ST 8913</td>
<td>Recent Developments in Statistics (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ST 8951</td>
<td>Seminar in Statistics (Consent of instructor) (may be taken for credit more than once)</td>
<td>1 hour</td>
</tr>
<tr>
<td>ST 8990</td>
<td>Special Topics in Statistics</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>ST 9000</td>
<td>Dissertation Research/Dissertation</td>
<td>Hours and credits to be arranged; minimum of 20 hours required for degree</td>
</tr>
</tbody>
</table>

Philosophy and Religion

Dr. John Bickle, Department Head
228 Etheredge Hall
Box JS
Mississippi State, MS 39762
Telephone: 662-325-2382
E-mail: jb1681@msstate.edu
Website: http://www.philosophyandreligion.msstate.edu/

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:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 6013</td>
<td>Contemporary Philosophy and Architecture (Same as ARC 4333/6333)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHI 6123</td>
<td>Contemporary Continental Philosophy</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHI 6143</td>
<td>Philosophy of Science</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHI 6153</td>
<td>American Philosophy</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHI 6163</td>
<td>Research Ethics</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHI 6213</td>
<td>Theories of Inquiry</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHI 6223</td>
<td>Philosophy of Cognitive Science</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHI 6313</td>
<td>Feminist Interpretations of Western Social and Political Philosophy</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHI 6423</td>
<td>Process Philosophy</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHI 6990</td>
<td>Special Topics in Philosophy</td>
<td>1-9 hours</td>
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<tr>
<td>PHI 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
</tr>
<tr>
<td>PHI 8101</td>
<td>Case Studies in Scientific Research Ethics</td>
<td>1 hour</td>
</tr>
<tr>
<td>PHI 8990</td>
<td>Special Topics in Philosophy</td>
<td>1-9 hours</td>
</tr>
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</table>

**Religion:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 6123</td>
<td>Scandinavian Mythology (Same as FL 4123/6123)</td>
<td>3 hours</td>
</tr>
<tr>
<td>REL 6143</td>
<td>Classical Mythology (Same as FL 4143/6143)</td>
<td>3 hours</td>
</tr>
<tr>
<td>REL 6253</td>
<td>Religion in America (HI 1063 or 1073)</td>
<td>3 hours</td>
</tr>
</tbody>
</table>
Physics and Astronomy
Dr. Mark Novotny, Department Head
Dr. David Monts, Graduate Coordinator
125 Hilburn Hall
Box 5167
Mississippi State, MS 39762
Telephone: 662-325-2806
Fax: 662-325-8898
E-mail: physics@msstate.edu
Website: http://www.msstate.edu/dept/physics/

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. An interdisciplinary program leading to the degree of Doctor of Philosophy in Engineering with a concentration in Applied Physics is available. 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; experimental and applied electromagnetic scattering; astrophysics; and astrochemistry. Graduate research and teaching assistantships are available.

Admission Criteria
TOEFL and IELTS scores are used following the General Requirements for Admission by the University.

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 9 hours of regular graduate-level courses attempted after admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 GPA is not attained, the provisional student may be dismissed from the graduate program.

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 6 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 coursework. A dissertation is required of all Ph.D. candidates.

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 retake 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. Repeated 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 physics/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; Box 5167; Mississippi State, MS 39762; phone: 662-325-2806; E-mail: physics@msstate.edu

**Graduate 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>PH 6013</td>
<td>Selected Topics in Physics for Teachers</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6023</td>
<td>Astronomy for Teachers</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6033</td>
<td>Demonstrations and Concepts for Physics Teachers I</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6043</td>
<td>Demonstrations and Concepts for Physics Teachers II</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6053</td>
<td>Physical Science for Teachers (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6113</td>
<td>Electronic Circuits for Scientists (PH 1133 or PH 2223 and MA 2733)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6143</td>
<td>Intermediate Laboratory</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6152</td>
<td>Modern Physics Laboratory</td>
<td>2 hours</td>
</tr>
<tr>
<td>PH 6213</td>
<td>Intermediate Mechanics I (PH 1133 or PH 2233 and MA 2733)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6223</td>
<td>Intermediate Mechanics II (PH 2233 and MA 2733)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6323</td>
<td>Electromagnetic Fields I (PH 1133 or PH 2233, MA 2743)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6333</td>
<td>Electromagnetic Fields II (PH 4323/6323)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6413</td>
<td>Thermal Physics (PH 3613, MA 2743)</td>
<td>3 hours</td>
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<tr>
<td>PH 6433</td>
<td>Computational Physics (PH 3613 and MA 3253)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6513</td>
<td>Intermediate Optics (PH 1123 or PH 2233, MA 2733)</td>
<td>3 hours</td>
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<td>PH 6613</td>
<td>Nuclear and Particle Physics (PH 3613)</td>
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<td>PH 6713</td>
<td>Introduction to Quantum Mechanics (PH 3613 and MA 3253)</td>
<td>3 hours</td>
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<td>PH 6723</td>
<td>Applications of Quantum Mechanics (PH 4713/6713)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6813</td>
<td>Introduction to Solid State Physics (PH 3613)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6990</td>
<td>Special Topics in Physics</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>PH 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
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<tr>
<td>PH 8000</td>
<td>Thesis Research/Thesis</td>
<td>Hours and credits to be arranged; minimum of 6 hours required for degree</td>
</tr>
<tr>
<td>PH 8213</td>
<td>Mechanics (A good undergraduate training in physics and mathematics and consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 8233</td>
<td>Methods of Theoretical Physics I (Consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>PH 8243</td>
<td>Methods of Theoretical Physics II (PH 8233)</td>
<td>3 hours</td>
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<tr>
<td>PH 8313</td>
<td>Electromagnetic Theory (PH 4333/6333 or equivalent)</td>
<td>3 hours</td>
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<tr>
<td>PH 8513</td>
<td>Statistical Mechanics (PH 4713 and PH 4413)</td>
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<tr>
<td>PH 8613</td>
<td>Nuclear Physics I (PH 4723/6723)</td>
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<td>PH 8743</td>
<td>Quantum Mechanics I (PH 4723/6723, MA 3313)</td>
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<tr>
<td>PH 8753</td>
<td>Quantum Mechanics II (PH 8743)</td>
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<tr>
<td>PH 8803</td>
<td>Molecular Structure (PH 8743)</td>
<td>3 hours</td>
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<tr>
<td>PH 8990</td>
<td>Special Topics in Physics</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>PH 9000</td>
<td>Dissertation Research/Dissertation</td>
<td>Hours and credits to be arranged; minimum of 20 hours required for degree</td>
</tr>
</tbody>
</table>

**Political Science and Public Administration**

Dr. K. C. Morrison, Department Head  
Dr. P. Edward French, Graduate Coordinator  
105 Bowen Hall  
Box PC  
Mississippi State, MS 39762  
Telephone: 662-325-2711  
E-mail: efrench@pspa.msstate.edu  
Website: http://www.msstate.edu/dept/politicalscience/

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 résumé, 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 PBT (250 CBT or 100 iBT) or better on the Test of English as a Foreign Language (TOEFL) or 7.5 on the International English Language Testing Systems (IELTS). 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 PBT (or equivalent) 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, 9 hours in a selected concentration, 9 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 applicant interested in being considered for financial assistance must indicate that interest at the time of application. Applications for financial assistance are due by March 1.

A student who has not been enrolled for one regular semester (fall or spring) is required to submit a readmission form and a new statement of purpose. The readmission must be approved by the Graduate Coordinator. If a student has not been enrolled for one calendar year, the applicant must submit a new application and statement of purpose to be considered for readmission.

**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 six 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 coursework. Moreover, the applicant must submit a résumé and the results of either the Graduate Record Examination (GRE) or the Miller Analogies Test (MAT); the applicant must also 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 PBT (243 CBT or 96 iBT) or better on the Test of English as a Foreign Language (TOEFL) or 7.5 on the International English Language Testing System (IELTS). 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 PBT (or equivalent) if the verbal Graduate Record Examination score is lower than 500.

A student who has not been enrolled for one regular semester (fall or spring) is required to submit a readmission form and a new statement of purpose. The readmission must be approved by the Graduate Coordinator. If a student has not been enrolled for one calendar year, the applicant must submit a new application and statement of purpose to be considered for readmission.

**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 9 hours of graduate work. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement.

**Program of Study/Completion Requirements**
The Master of Public Policy and Administration program consists of three facets:

1. **Core Courses**—27 hours
   These are courses that provide broad training in public policy and administration. These courses cover the fundamental competencies essential for professional practice in the field of public policy and administration.
   - PPA 8103 Seminar in Public Administration
   - PPA 8703 Government Organization and Administrative Theory
   - PPA 8713 Public Personnel Management
Program of Study/Completion Requirements
The department offers a Master of Arts under Option One (thesis) and Plan Option Two (non-thesis). Option 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 coursework, comprised of Research Methods, Public Policy and 12 hours of additional political science courses, and 6 hours of approved electives. In addition, Option One requires a thesis. Option Two (non-thesis) is open to anyone with at least 18 undergraduate semester hours in social science courses, including 9 hours in political science, who meets the minimum admission requirements. It requires a minimum of 33 semester hours of approved coursework, 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 coursework is completed outside of political science, students must choose courses from no more than two other departments. Option Two candidates must pass a comprehensive examination on all coursework.

Unsatisfactory Performance
A student in the Master of Arts program will be dismissed if he or she receives grades of C or lower in 6 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 (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 9 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 (Consent of instructor) [Same as PPA 9103]. 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

**Political Theory:**
PS 6423  20th Century Political Thought (PS 2403 or consent of instructor). 3 hours
PS 6433  American Political Theory (PS 1113). 3 hours
PS 6453  Western Political Theory. 3 hours
PS 8413  Seminar in Political Theory (PS 2403 and 9 hours of related courses or consent of instructor). 3 hours
PS 9413  Normative Analysis of American Public Policy [Same as PPA 9413]. 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 (6 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 8890  Special Topics in Political Science. 1-9 hours

**Research:**
PS 7000  Directed Individual Study. 1-6 hours
PS 8000  Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree

**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 (PS 4703/6703). 3 hours
PPA 8763  Local Government Planning. 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 8983 Integrative Capstone (Consent of instructor). 3 hours
PPA 8990 Special Topics in Public Policy Administration. 1-9 hours

Ph.D. in Public Policy and Administration:
PPA 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree
PPA 9103 American Political Institutions (Consent of instructor) [Same as PS 9103]. 3 hours
PPA 9413 Normative Analysis of American Public Policy [Same as PS 9413]. 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 (PPA 9803 and consent of instructor) [Same as PS 9893]. 3 hours
PPA 9903 Public Policy Formulation and Implementation (Consent of instructor). 3 hours

Psychology
Dr. John Bickle, Interim Department Head
Dr. Deborah Eakin, Graduate Coordinator
110 Magruder Hall
Drawer 6161
Mississippi State, MS 39762
Telephone: 662-325-3202
E-mail: grad@psychology.msstate.edu
Website: http://www.psychology.msstate.edu

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 assistantships are available.

Admission Criteria
Prerequisites for admission into the graduate program include all the general requirements of the Office of the Graduate School and the following courses at the undergraduate level:

- For all applicants—statistics, experimental psychology, and (if available to applicants) biological/physiological psychology or some sort of behavioral neuroscience course
- For the cognitive science doctoral program—introductory cognitive psychology
- For the clinical master’s program—abnormal psychology
- For the master’s program in experimental psychology—psychology of learning

The application deadline for the Cognitive Science doctoral program is January 15. Although the deadline for full financial consideration is January 15, we will continue to review applications until May 1. Applications to the master’s program (for both the Clinical and Experimental concentrations) are reviewed continuously starting February 1. The master’s program conducts “rolling admissions” and encourages well-qualified applicants to apply up until May 1. However, earlier applicants typically have a better chance of both gaining admission and of obtaining financial support. The vast majority of graduate students are admitted to begin first-year coursework in the Fall semesters. Occasionally, students are admitted to begin in spring.

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 (2.75 for the M.S. program and 3.00 for the Ph.D. program) 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.

**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 9 hours of graduate courses at MSU after admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 is not achieved, the student may be dismissed from the graduate program.

**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 (9 hours), statistics (6 hours), research methods (3 hours), and the cognitive program core (6 hours). In addition, the doctoral candidate must take 12 hours (with at least 6 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 20 hours of dissertation research.

The student in the master’s program is required to complete successfully PSY 8214, PSY 8513, and 6 hours of thesis 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 8364, PSY 8383, PSY 8454, PSY 8464, PSY 8533, PSY 8573, and one 3-credit elective. Other than the 13 hours required of all master’s students, there are no specific requirements in the 40-hour experimental concentration.

**Academic Performance**

Unsatisfactory performance in the graduate program in psychology is defined as any of the following:

- Earning three grades of C or lower
- In the doctoral program—failing the preliminary examination
- In any graduate program—failing the research defense
- Unsatisfactory evaluation of a thesis or dissertation, or
- 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 3104). 3 hours
- PSY 6123 Quantitative Techniques in Psychology Using Computers (PSY 3104 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 6373 Forensic Psychology (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 of consent of instructor). 3 hours
- PSY 6753 Applied Cognitive 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
- PSY 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
Sociology
Dr. Lynne Cossman, Interim Department Head and Graduate Coordinator
207 Bowen Hall
Box C
Mississippi State, MS 39762
Telephone: 662-325-2495
E-mail: sociology@soc.msstate.edu
Website: http://www.sociology.msstate.edu/

This department has graduate programs leading to the Master of Science and Doctor of Philosophy degrees in sociology.

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) 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].

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 9 hours of graduate-level courses on the program of study taken at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement) 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.

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 coursework with at least half of the courses at the 8000 level or above plus 6 hours of thesis research/thesis. A student selecting the non-thesis option must complete a minimum of 36 hours of coursework with at least 15 hours at the 8000 level.

Minimum requirements for the Ph.D. degree include 24 hours of coursework in sociological tools (theory, methods, and statistics), 9 hours of coursework in general sociology, 15 hours of coursework in an area of specialization, 9 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 coursework, the student takes a comprehensive preliminary examination in the area of specialization. Areas of specialization include (1) Social Demography; (2) Criminology/Social Disorganizational/Criminal Justice; (3) Rural Sociology/Social Change and Development; and (4) Social Inequality and Stratification.

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.

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 coursework
2. More than one letter grade below a B in a student’s graduate Core I coursework
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
7. Two failures on the Ph.D. Dissertation Defense

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.

M.S. Completion Requirements

Upon the completion of coursework 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. A master’s thesis-option student must enroll for a minimum of 6 thesis research/thesis 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 coursework for a student’s program of study is completed or the semester immediately following completion of the coursework. 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. Completion Requirements

After the completion of coursework 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/dissertation hours.

**NOTE:** Thesis and dissertation research are subject to review and approval by the University’s Institutional Review Board (IRB).

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**Graduate Courses**—Course prerequisites are noted in parentheses.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<td>SO 6113</td>
<td>Social Organization and Change</td>
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<td>SO 6123</td>
<td>Poverty Analysis: People, Organizations and Programs</td>
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<td>SO 6173</td>
<td>Environment and Society</td>
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<td>SO 6203</td>
<td>The Family in the United States</td>
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<td>SO 6243</td>
<td>Drugs, Crime and Control</td>
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<td>SO 6253</td>
<td>White Collar Crime and Elite Deviance</td>
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<td>SO 6403*</td>
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<td>Health and Society</td>
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<tr>
<td>SO 6703</td>
<td>Population Problems and Processes</td>
<td>3</td>
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<tr>
<td>SO 6713</td>
<td>Methods in Population Research</td>
<td>3</td>
</tr>
<tr>
<td>SO 6733</td>
<td>Community: Organization and Relationships</td>
<td>3</td>
</tr>
<tr>
<td>SO 6990</td>
<td>Special Topics in Sociology</td>
<td>1-9</td>
</tr>
<tr>
<td>SO 7000*</td>
<td>Directed Individual Study</td>
<td>1-6</td>
</tr>
<tr>
<td>SO 8000*</td>
<td>Thesis Research/Thesis</td>
<td>Hours and credits to be arranged; minimum of 6 hours required for degree</td>
</tr>
<tr>
<td>SO 8103</td>
<td>Graduate Social Theory I</td>
<td>3</td>
</tr>
<tr>
<td>SO 8113</td>
<td>Graduate Social Theory II</td>
<td>3</td>
</tr>
<tr>
<td>SO 8213</td>
<td>Research Design</td>
<td>3</td>
</tr>
<tr>
<td>SO 8223</td>
<td>Advanced Quantitative Analysis (SO 8213)</td>
<td>3</td>
</tr>
<tr>
<td>SO 8233</td>
<td>Qualitative Analysis (SO 8213)</td>
<td>3</td>
</tr>
<tr>
<td>SO 8243</td>
<td>Spatial Analysis of Social Data</td>
<td>3</td>
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<tr>
<td>SO 8274</td>
<td>Graduate Social Statistics I (ST 2113 or equivalent)</td>
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<tr>
<td>SO 8284</td>
<td>Graduate Social Statistics II (SO 8274)</td>
<td>4</td>
</tr>
<tr>
<td>SO 8293</td>
<td>Structural Equations Modeling with Latent Variables</td>
<td>3</td>
</tr>
<tr>
<td>SO 8323</td>
<td>Strategies and Tactics of Planned Change</td>
<td>3</td>
</tr>
<tr>
<td>SO 8343</td>
<td>Complex Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

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**Gender Studies Certificate Program**

**Dr. Nicole Rader, Coordinator**  
Ellen Bryant Women’s Resource Center  
Lower Level, Rice Residence Hall  
Box C, Mailstop 9744  
Mississippi State, MS 397862  
Telephone: 662-325-1466  
E-mail: NRader@soc.msstate.edu  
Website: [http://genderstudies.msstate.edu/](http://genderstudies.msstate.edu/)

Gender Studies is an interdisciplinary academic program that examines the construction of gender as a social, cultural, biological, and psychological phenomenon and the various ideologies that underpin the distinctions that different societies over time have made between the categories of “man” and “woman.” As a field of inquiry, Gender Studies enables one to question how gender as a social and cultural construction shapes people’s lives, their relationships, the workplace, institutional structures, public policy, and the production of knowledge. It also enables one to investigate the different impact of events, technologies, and government policies on
men and women. The study of gender helps to broaden understanding of culture and identity, the intersection of gender with race, class, and sexuality, health and body politics, region and environment, nationalism, and citizenship. Through the College of Arts and Sciences, Mississippi State University offers a graduate certificate (12 credit hours).

**Master of Arts in Interdisciplinary Sciences**

Dr. Walter J. Diehl, Program Advisor  
College of Arts & Sciences  
208 Allen Hall  
Telephone: 662-325-2646  
Fax: 662-325-8740  
Mailing Address: P.O. Box AS, Mississippi State, MS 39762  
E-mail: wdiehl@deanas.msstate.edu

General Information:  
Joy Bailey and/or Hannah Street, Coordinators  
Academic Outreach  
212 Memorial Hall  
Telephone: 662-325-0658  
Fax: 662-325-2657  
Mailing Address: P.O. Box 5247, Mississippi State, MS 39762  
E-mail: hstreet@aoce.msstate.edu jbailey@aoce.msstate.edu  
Website: www.distance.msstate.edu/mais

The departments of Biological Sciences, Chemistry, Geosciences, and Mathematics & Statistics have partnered to form a degree available through distance learning. The Master of Arts in Interdisciplinary Sciences is designed for practicing K-12 teachers who need graduate-level comprehensive instruction in multiple fields. Students must declare one of the participating science departments as the emphasis area and are free to choose electives amongst the remaining departments. This degree is completed online, with the exception of the capstone course which gives students a hands-on learning experience in their declared emphasis area.

**Admission Criteria**  
Admission to the MAIS program is open to students who have earned at least a 2.75 GPA in the last 60 hours in a relevant undergraduate major as part of a bachelor’s degree earned at an accredited academic institution.

Applicants must submit a statement of purpose and at least two (2) letters of reference from persons qualified to evaluate their undergraduate scholastic performance (or quality of administrative service) and suitability for graduate study in this program.

International students are required to take the Test of English as a Foreign Language (TOEFL) and score greater than 600 PBT (243 CBT or 96 iBT) or better on the Test of English as a Foreign Language (TOEFL) or 7.5 on the International English Language Testing System (IELTS).

**Program of Study/Completion Requirements**  
Requirements for the Master of Arts in Interdisciplinary Sciences include a 36-hour program of coursework and a written comprehensive final exam administered by the student’s declared department according to its policies but no later than the beginning of the final term. Each student will also be required to complete a Capstone course in the field of his or her emphasis area. Students must complete 21 hours in the field of the declared area of emphasis and 15 hours of electives from other disciplines. The degree may be completed in as little as two years, taking two courses per semester through the intensive MAIS program. For additional information, please visit www.distance.msstate.edu/mais or call the Office of Academic Outreach at 662-325-9684 or 662-325-0658.

**Graduate Courses**—Course prerequisites are noted in parentheses.

**Biological Sciences:**

- **BIO 6013** Advanced Cell Biology (Consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program). 3 hours
- **BIO 6023** Ecology & the Environment (Consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program). 3 hours
- **BIO 8023** Modern Microbiology (Consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program). 3 hours
- **BIO 8033** Genetics & Molecular Biology (Consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program). 3 hours
- **BIO 8043** Principles of Evolutionary Biology (Consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program). 3 hours
- **BIO 8073** Research Methods in Biological Sciences for Interdisciplinary Sciences (Fifteen
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>BIO 8083</td>
<td>Capstone in Interdisciplinary Sciences with an Emphasis on Biological Sciences</td>
<td>3</td>
<td>Fifteen hours BIO graduate work and consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program.</td>
</tr>
<tr>
<td>CHTC 6263</td>
<td>Industrial and Consumer Chemistry for Teachers</td>
<td>3</td>
<td>Consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program.</td>
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<tr>
<td>CHTC 6363</td>
<td>Chemistry of the Environment for Teachers</td>
<td>3</td>
<td>Consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program.</td>
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<tr>
<td>CHTC 8073</td>
<td>Research Methods in Chemistry for Interdisciplinary Sciences for Teachers</td>
<td>3</td>
<td>Consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program.</td>
</tr>
<tr>
<td>CHTC 8083</td>
<td>Capstone in Interdisciplinary Sciences with an Emphasis on Chemistry for Teachers</td>
<td>3</td>
<td>Consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program.</td>
</tr>
<tr>
<td>CHTC 8363</td>
<td>Analytical Methods in Forensics for Teachers</td>
<td>3</td>
<td>Consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program.</td>
</tr>
<tr>
<td>CHTC 8463</td>
<td>Chemistry of Energy for Teachers</td>
<td>3</td>
<td>Consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program.</td>
</tr>
<tr>
<td>CHTC 8473</td>
<td>Chemical Structure and Bonding for Teachers</td>
<td>3</td>
<td>Consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program.</td>
</tr>
<tr>
<td>CHTC 8563</td>
<td>Organic Molecules and Polymeric Materials for Teachers</td>
<td>3</td>
<td>Consent of instructor. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program.</td>
</tr>
<tr>
<td>Geosciences</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GG 8073</td>
<td>Research Methods in Geosciences for Interdisciplinary Sciences</td>
<td>3</td>
<td>Fifteen hours GG or GR graduate work and consent of instructor. Intended for K-12 science teachers.</td>
</tr>
<tr>
<td>GG 8083</td>
<td>Capstone in Interdisciplinary Sciences with an Emphasis on Geosciences</td>
<td>3</td>
<td>Fifteen hours GG or GR graduate work and consent of instructor. Intended for K-12 science teachers.</td>
</tr>
<tr>
<td>GG 8113</td>
<td>Geology I: Processes and Products</td>
<td>3</td>
<td>Consent of instructor. Intended for K-12 science teachers.</td>
</tr>
<tr>
<td>GG 8123</td>
<td>Geology II: Earth, Time and Life</td>
<td>3</td>
<td>GG 8113 or consent of instructor. Intended for K-12 science teachers.</td>
</tr>
<tr>
<td>GG 8203</td>
<td>Ocean Science</td>
<td>3</td>
<td>GG 8113 or consent of instructor. Intended for K-12 science teachers.</td>
</tr>
<tr>
<td>GG 8233</td>
<td>Environmental Geosciences</td>
<td>3</td>
<td>GG 8113 or consent of instructor. Intended for K-12 science teachers.</td>
</tr>
<tr>
<td>GR 6603</td>
<td>Climatology</td>
<td>3</td>
<td>GR 1114 or GR 1123 or equivalent. Intended for K-12 science teachers.</td>
</tr>
<tr>
<td>GR 8113</td>
<td>Meteorology I: Observations</td>
<td>3</td>
<td>Consent of instructor. Intended for K-12 science teachers.</td>
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<tr>
<td>GR 8123</td>
<td>Meteorology II: Forecasting and Storms</td>
<td>3</td>
<td>GR 8113 or consent of instructor. Intended for K-12 science teachers.</td>
</tr>
<tr>
<td>Mathematics &amp; Statistics</td>
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<tr>
<td>MATC 6013</td>
<td>Applied Mathematics for Interdisciplinary Sciences for Teachers</td>
<td>3</td>
<td>MA 1313 or equivalent. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program.</td>
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<tr>
<td>MATC 6023</td>
<td>Theory of Equations for Interdisciplinary Sciences for Teachers</td>
<td>3</td>
<td>MA 1313 or equivalent. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program.</td>
</tr>
<tr>
<td>MATC 6033</td>
<td>Studies in Applied Probability and Statistics</td>
<td>3</td>
<td>MA 2113 [Same as ST 2113] or equivalent. Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance program.</td>
</tr>
</tbody>
</table>
to satisfy degree requirements in a non-
distance program). 3 hours
MATC 8023 Applications of Functions to
Interdisciplinary Sciences for Teachers
(MA 6023 or equivalent. Intended for K-
12 science teachers. Course cannot be
used to satisfy degree requirements in a
non-distance program). 3 hours
MATC 8033 Studies in Discrete Mathematics for
Teachers (MA 6023 or equivalent.
Intended for K-12 science teachers.
Course cannot be used to satisfy degree
requirements in a non-distance
program). 3 hours
MATC 8043 Geometry and Measurement for
Interdisciplinary Sciences for Teachers
(MA 6013 or equivalent. Intended for K-
12 science teachers. Course cannot be
used to satisfy degree requirements in a
non-distance program). 3 hours
MATC 8053 Applied Linear Algebra for
Interdisciplinary Sciences for Teachers
(MA 6013 or equivalent. Intended for K-
12 science teachers. Course cannot be
used to satisfy degree requirements in a
non-distance program). 3 hours
MATC 8063 Differential Equations with Mathematical
Modeling for Teachers (MA 6013 or
equivalent. Intended for K-12 science
teachers. Course cannot be used to satisfy
degree requirements in a non-distance
program). 3 hours
MATC 8073 Research Methods in Mathematics and
Statistics for Interdisciplinary Sciences for
Teachers (Fifteen hours MA graduate
work and consent of instructor. Intended
for K-12 science teachers. Course cannot
be used to satisfy degree requirements in a
non-distance program). 3 hours
MATC 8083 Capstone in Interdisciplinary Sciences
with an Emphasis on Mathematics and
Statistics for Teachers (Fifteen hours MA
graduate work and consent of instructor.
Intended for K-12 science teachers.
Course cannot be used to satisfy degree
requirements in a non-distance
program). 3 hours

Course Rotation

<table>
<thead>
<tr>
<th>Biological Sciences</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>BIO 6013</td>
<td>BIO 6023</td>
<td>BIO 8043</td>
</tr>
<tr>
<td>Year 2</td>
<td>BIO 8023</td>
<td>BIO 8033</td>
<td>BIO 8083</td>
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<table>
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<tr>
<th>Chemistry</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tr>
<td>Year 1</td>
<td>CHTC 6363</td>
<td>CHTC 6473</td>
<td>CHTC 8363</td>
</tr>
<tr>
<td>Year 2</td>
<td>CHTC 8463</td>
<td>CHTC 8563</td>
<td>CHTC 8083</td>
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Geosciences

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<tr>
<th>Year 1</th>
<th>GR 8113 or GG 8113</th>
<th>GR 8123 or GG 8123</th>
<th>GR 6603 or GG 8203</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2</td>
<td>GR 8113 or GG 8113</td>
<td>GR 8123 or GG 8123</td>
<td>GR 8083</td>
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Mathematics & Statistics

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<th>Year 1</th>
<th>MATC 6023</th>
<th>MATC 6033</th>
<th>MATC 8033</th>
</tr>
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<tbody>
<tr>
<td>Year 2</td>
<td>MATC 8053</td>
<td>MATC 8063</td>
<td>MATC 8073</td>
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</table>

Academic Performance

A written comprehensive examination is required of all
degree candidates and will be administered at the
beginning of the final term. The candidate’s graduate
committee will administer the exam based on his/her
coursework. The candidate must be enrolled at MSU
during the semester the examination is administered,
must have a GPA of 3.00 on all coursework after being
admitted to the program (i.e., program and non-
program courses), and must be within the last 6 hours of
his/her program of study. All candidates will be eligible
to take the examination twice, only after a minimum of
four months time has elapsed from when the first
examination was taken. Two failures of the examination
result in the student being dropped as a Master’s degree
candidate. The time limit for fulfilling the requirements
of the program is eight years.
The College of Business offers graduate coursework in business administration, accounting, finance, information systems, management and marketing as well as applied economics. This section describes all doctoral, master's and certificate programs offered at the graduate level. Following the description of individual programs, an overview of each department is presented along with the specific courses offered by the faculty in each one.

**DOCTORAL PROGRAMS**

The College of Business offers the following two doctoral programs:

- **PhD in Business Administration**
  - Majors: Accounting, Business Information Systems, Finance, Management, and Marketing;
- **PhD in Applied Economics**

**Doctor of Philosophy in Business Administration**

**Dr. Jason Lueg, Graduate Coordinator**

Office of Graduate Studies in Business
210 McCool Hall
Box 5288
Mississippi State, MS 39762
Telephone: 662-325-1891
E-mail: gsb@coblalion.msstate.edu

The College of Business offers a full-time degree program leading to the Doctor of Philosophy in Business Administration (Ph.D.). The concentrations available under this degree include Accounting, Business Information Systems, 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.

Enrollment in the Ph.D. program is limited to the number of openings available in each academic year. 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.

An international applicant not holding a prior degree from a U.S. Institution must submit a TOEFL report of 575 PBT (233 CBT or 84 iBT) or an IELTS score of 7.0. Other indicators of English proficiency may be considered on a case by case basis.

Application Deadlines—Students are admitted to the Ph.D. program in the fall semester of each year. Applicants to the Ph.D. program with a concentration in Finance are admitted only in even years. In order to receive full consideration for both admission and assistantship, complete applications must be received by the Office of the Graduate School by January 15. The following deadlines apply separately to applications for admission and graduate assistantship.

Admission—The primary decision date for fall admission 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 the Graduate School 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 the Graduate School 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.

Assistantship—While an 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 January 15 for those desiring full consideration for a graduate assistantship offer.

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.

Prerequisite Courses:
- Business Computer Systems: 3 hours
- Business Finance: 3 hours
- Business Statistics: 6 hours
- Calculus: 3 hours
- Legal Environment of Business: 3 hours
- Principles of Accounting: 6 hours
- Principles of Economics: 6 hours
- Principles of Management: 3 hours
- Principles of Marketing: 3 hours
- Production Management: 3 hours

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 coursework stage of the program is the graduate program committee. When the student completes all coursework 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. 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.

✓ 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.

✓ 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 coursework is important, the specific courses and number of hours required 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 coursework 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 MSU.

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. 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, 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.

Coursework Requirements—Following are the minimum coursework requirements beyond the baccalaureate stipulated by the graduate faculty in the College of Business for the Ph.D.

✓ Major Minimum Requirement: 24 Hours—No more than 6 of these hours may be taken outside of the College of Business.

✓ 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 9 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 6 of these hours may be taken outside the College of Business.

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 12 hours of graduate coursework in one discipline within the College of Business. 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 9 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 coursework 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 requirement will increase by 3 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 coursework and/or who have been admitted into degree candidacy must be continuously registered during at least two academic terms per year.

**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 in Business maintains the schedule of examination dates. 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, 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 coursework at Mississippi State University and completion of all required coursework 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 coursework if the appropriate coursework 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**—All doctoral students are required to pass a comprehensive (oral) examination. It may be scheduled following passage of the qualifying examination, passage of all preliminary examinations, and when the student is within 6 hours of completing all coursework. 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 the Graduate School appoint an outside observer to attend the comprehensive examination.

   The examination is administered by the student’s graduate program committee. A student may pass the examination with no more than one failure or dissenting vote from a member of the graduate program committee. A student who fails the comprehensive examination cannot apply to re-sit for the examination until a period of four months has elapsed from the date of the original examination. Two failures on the comprehensive examination result in automatic termination of the student’s program. The student’s graduate program committee is dissolved upon passage of the comprehensive examination.

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.

   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.

5. Dissertation and Final Defense—The dissertation is required of all candidates for the doctorate and 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 Standards for Preparing Dissertations and Theses. This manual is available on-line at http://library.msstate.edu/thesis/index.asp.

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 defense” 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 School 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’s 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 coursework, the student shall be required to devote two consecutive regular semesters (fall/spring) with a minimum load of 9 hours per semester to the graduate program at Mississippi State University.

Academic Performance
A student in any Ph.D. program in the College of Business may not continue in the program with grades below B in more than 6 hours of core coursework, regardless of the overall average. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on core coursework. In addition the normal NSU requirements for satisfactory progress in a Ph.D. program will be applied.

Time Limit
A student in a Ph.D. doctoral program must complete the program within a period of five years after passing the Preliminary/Comprehensive Examination.

For More Information—For more information about the Ph.D. program in Business or application materials, address inquiries to: Director, Graduate Studies in Business, PO Drawer 5288, Mississippi State, MS 39762; or call 662-325-1891. Fax: 662-325-8161; e-mail: gsb@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 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.

**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). An international applicant not holding a prior degree from a U.S. institution must submit an indicator of English proficiency including one of the following: 1) A TOEFL score of 575 PBT (233 CBT or 84 iBT) or 2) An IELTS score of 7.0. Other indicators of English proficiency may be considered on a case by case basis.

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.

**Provisional Admission**—A student who initially obtains provisional admission status must receive a 3.00 GPA on all core courses taken during the first 9 hours of enrollment in the program to achieve regular admission status. Graduate courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement.

**Program of Study**

The Ph.D. degree requires a minimum of 48 hours of coursework plus a dissertation (minimum of 20 hours). Coursework 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 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 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.

**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 in courses on the 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 coursework, 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 & Life Sciences I
MA 1623 Calculus for Business & 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 or one with specialized fields from the College of Agriculture and Life Sciences.

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.

MASTER’S PROGRAMS
The College of Business offers the following seven programs at the master’s level:

- Master of Arts in Economics
- Master of Business Administration (MBA)
- Master of Business Administration (MBA)/ Project Management
- Master of Public Accountancy
- Master of Taxation
- Master of Science in Business Administration
- Master of Science in Information Systems

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.

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 9 hours of graduate-level courses on the program of study taken at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement) 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
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.

**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 may not continue in the program with grades below B in more than 6 hours of core graduate coursework 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 core graduate coursework.

**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 coursework. Students choose from two program options: thesis and non-thesis. In addition to the core courses, the thesis option requires 15 hours of economics coursework and 6 hours of thesis credit. Students electing the non-thesis option must complete 21 hours of economics coursework in addition to the core courses.

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**Master of Business Administration**
**Dr. Jason Lueg, Graduate Coordinator**
210 McCool Hall  
Box 5288  
Mississippi State, MS 39762  
Telephone: 662-325-1891  
E-mail: gsb@coblanc.msstate.edu  
Websites:
- [http://www.distance.msstate.edu/mba](http://www.distance.msstate.edu/mba)

The College of Business offers the general M.B.A. degree as well as the M.B.A. with a concentration in Project Management. Both of the programs are offered on the Starkville campus, as well as online. The M.B.A. program prepares students for successful careers in the business world by providing:
1) in-depth knowledge of the business world including awareness of current business trends and challenges posed by the rapidly changing global economy and understanding of the ethical and social responsibilities of business;  
2) enhanced skills in speaking and writing effectively, analyzing data and synthesizing information, working effectively with individuals and teams, utilizing technologies to support and communicate decisions, and making and recognizing well-reasoned decisions;  
3) the ability to integrate acquired business knowledge in order to present and defend appropriate solutions to challenging business dilemmas and demonstrate effective leadership skills in a business setting.

**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 x GPA) + (GMAT). However, reasonable minimum levels of performance must be achieved in both the applicant’s GPA and GMAT scores. 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.

In addition, a student must submit a statement of purpose, transcripts, three letters of recommendation, and a current résumé.

**International Applicants**—An international applicant not holding a degree from a U.S. institution must submit an indicator of English proficiency including one of the following:  
1) A TOEFL score of 575 PBT (233 CBT or 86-95 iBT) or 2) An IELTS score of 7.0. Other indicators of English proficiency may be considered on a case by case basis.

**Provisional Admission**—Following University guidelines, a student admitted provisionally to this program must receive a 3.00 GPA on the first 9 hours of graduate-level courses on the program of study taken at MSU (graduate courses with a 5 grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement). If the 3.00 is not attained, the provisional student may be dismissed from graduate study.

**Program of Study**
Coursework 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 coursework beyond the foundation level.

**M.B.A. Foundation**—The foundation portion of the program consists of 15 hours of survey courses or the equivalent prerequisite courses which 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.

<table>
<thead>
<tr>
<th>Foundation Course</th>
<th>Replaces</th>
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<tbody>
<tr>
<td>Survey of Accounting</td>
<td>Principles of Financial Accounting and Principles of Managerial Accounting</td>
</tr>
<tr>
<td>Statistical Analysis for Business Decision Making</td>
<td>Business Statistical Methods I &amp; II</td>
</tr>
<tr>
<td>Survey of Management</td>
<td>Principles of Management and Production Management</td>
</tr>
<tr>
<td>Survey of Economics</td>
<td>Principles of Macroeconomics and Principles of Microeconomics</td>
</tr>
</tbody>
</table>

**M.B.A. Core**—All candidates for the M.B.A. must complete a core of 24 hours. The core is composed of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 8112</td>
<td>2</td>
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<tr>
<td>BIS 8112</td>
<td>2</td>
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<tr>
<td>BL 8112</td>
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<tr>
<td>EC 8103</td>
<td>2</td>
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<tr>
<td>FIN 8113</td>
<td>2</td>
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<tr>
<td>MKT 8153</td>
<td>3</td>
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<tr>
<td>BQA 8233</td>
<td>3</td>
</tr>
<tr>
<td>MGT 8111</td>
<td>1</td>
</tr>
<tr>
<td>MGT 8112</td>
<td>2</td>
</tr>
<tr>
<td>MGT 8123</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**—The remaining 6 hours are selected with the advice and consent of the candidate’s advisor.

**Minor**—A minor may be obtained by taking 9 hours of coursework in an approved discipline. Required MBA courses or electives may count towards this minor upon consent of the candidate’s advisor.

**Final/Comprehensive Requirement**—The course MGT 8123 (Strategic 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 B or better is required on all undergraduate prerequisite courses. A student in any graduate degree program in the College of Business may not continue in the program with grades below B in more than 6 hours of core graduate coursework, regardless of the overall average. A student must also achieve a grade of B or better in MGT 8123, Strategic Business Consulting. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on the program of study. In addition, the normal MSU requirements for satisfactory progress in a graduate program will be applied.

**M.B.A. in Project Management**

The project management concentration in the M.B.A. degree program is an interdisciplinary program between the College of Business and the College of Engineering consisting of 33 hours.

Students choosing this concentration will take the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>IE 6533</td>
<td>3</td>
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<tr>
<td>BIS 8112</td>
<td>2</td>
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<tr>
<td>ACC 8112</td>
<td>2</td>
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<tr>
<td>BQA 8233</td>
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<td>MGT 8111</td>
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<td>IE 6573</td>
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<td>IE 8583</td>
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<td>EC 8103</td>
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<tr>
<td>MGT 8123</td>
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<tr>
<td>FIN 8313</td>
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<tr>
<td>FIN 8113</td>
<td>3</td>
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**Bulletin of the Graduate School**

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July 2011
**Master of Professional Accountancy**  
**Dr. James Scheiner, Director and Graduate Coordinator**  
**Adkerson School of Accountancy**  
300 McCool Hall  
Box EF  
Mississippi State, MS 39762  
Telephone: 662-325-3710  
Fax: 662-325-1646  
E-mail: sac@cobilan.msstate.edu

The objective of the Master of Professional Accountancy (M.P.A.) program is to further the student’s education in business and accounting while preparing for a professional career in accountancy. The accountancy program is accredited by AACSB International, the Association to Advance Collegiate Schools of Business, as part of the overall accreditation of the College of Business, as well as the separate and additional accreditation of accounting programs at both the graduate and undergraduate levels.

**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). 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 not holding a prior degree from a U.S. institution must submit an indicator of English proficiency including one of the following: 1) A TOEFL score of 575 PBT (233 CBT or 84 iBT) or 2) an IELTS score of 7.0. Other indicators of English proficiency may be considered on a case by case basis.

**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 9 hours of graduate-level courses on the program of study taken at Mississippi State University in order to achieve regular status. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy 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.

**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 coursework. 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

**Written Communication Skills**

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

**Program of Study**

The candidate must complete 30 hours of coursework at the graduate level beyond any prerequisite courses. As prescribed below, this program is composed of 21 hours of accounting coursework and 9 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 8093  Taxation of Partnerships, S Corporations, Trusts, and Estates. 3 hours
ACC 8113  Advanced Individual Taxation and Wealth Management. 3 hours
ACC 8123  Tax Topics. 3 hours

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

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

Concentration in Systems—In lieu of 9 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

*Programming prerequisites may be 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 may not continue with grades below B in more than 6 hours of program coursework, regardless of the overall average. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on program coursework. In addition, the normal MSU requirements for satisfactory progress in a graduate program will be applied.

Completion Requirements
1. A student must complete the required curriculum and a minimum of 30 graduate semester hours.
2. A student must have no more than 6 hours of C grades on program coursework.
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 examination or other evaluation.

Master of Taxation
Dr. James Scheiner, Director and Graduate Coordinator
Adkerson School of Accountancy
300 McCool Hall
Box EF
Mississippi State, MS  39762
Telephone: 662-325-3710
Fax: 662-325-1646
E-mail: sac@cobilan.msstate.edu

The primary objective of the Master of Taxation (M.TX.) 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 to the M.TX. 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.TX. degree must take the Graduate Management Admission Test (GMAT). Regular admission to the M.TX. 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 not holding a prior degree from a U.S. Institution must submit an indicator of English proficiency including one of the following: 1) A TOEFL score of 575 PBT (233 CBT or 84 iBT) or 2) an IELTS score of 7.0. Other indicators of English proficiency may be considered on a case by case basis.

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 9 hours of graduate-level courses on the program of study taken at Mississippi State University in order to achieve regular status. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy 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.

**Prerequisite Courses**

The prerequisites listed below, or their equivalent, must be completed either before or during graduate coursework. 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
- ACC 3003 Accounting Information Systems I. 3 hours
- ACC 3013 Cost Accounting. 3 hours
- ACC 3013 Computer Literacy
- Written Communication Skills

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

**Program of Study**

A candidate must complete 30 hours of coursework at the graduate level including a core of 15 hours of taxation, as described below. At least 21 of the 30 hours must be taken from courses offered exclusively for graduate credit (8000 level).

**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 8113 Advanced Individual Tax and Wealth Management. 3 hours
- ACC 8093 Federal Taxation of Partnerships, Corporations, Trusts, and Estates. 3 hours

Elective—any 8000-level taxation course. 3 hours

**Other Required Courses (6 hours):**

- ACC 8013 Seminar in Financial Accounting Theory. 3 hours
- ACC 8033 Business Assurance Services. 3 hours

**Electives (9 hours):**

Graduate-level Business or Accounting courses

**NOTE:** No more than 9 hours of coursework in the 30-hour program may be at the 6000 level.

**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 may not continue with grades below B in more than 6 hours of program coursework, regardless of the overall average. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on program coursework. In addition, the normal MSU requirements for satisfactory progress in a graduate program will be applied.

**Completion Requirements**

1. A student must complete the required curriculum and a minimum of 30 graduate semester hours.
2. A student must have no more than 6 hours of C grades on program coursework.
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 examination or other evaluation.

Consult the Director, Adkerson School of Accountancy, Box EF, Mississippi State, MS 39762 for further information or E-mail: sac@cobilan.msstate.edu.

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**Master of Science in Business Administration**

**Dr. Mike Highfield, Department Head**

**Dr. Kenneth Roskelley, Graduate Coordinator**

310-I McCool Hall
Box 9580
Mississippi State, MS 39762
Telephone: 662-325-2342
E-mail: kdr149@cobilan.msstate.edu

The Master of Science in Business Administration (M.S.B.A.) is available only to current graduate students in the College of Business.

**Program of Study/Completion Requirements**

Coursework 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 coursework beyond the required pre-requisites. This 30 hours is composed of 21 hours in the major and 9 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 may not continue in the program with grades below B in more than 6 hours of graduate coursework, regardless of the overall average. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on graduate coursework. In addition, the normal MSU requirements for satisfactory progress in a graduate program will be applied.
Master of Science in Information Systems
Dr. Rodney Pearson, Department Head
Dr. Jason Lueg, Graduate Coordinator
302H McCool Hall
Box 9581
Mississippi State, MS 39762
Telephone: 662-325-3928
E-mail: gsb@cobilan.msstate.edu

The mission of the Management and Information Systems 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 Master of Science in Information Systems (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. The applicant must meet all general requirements stated in this publication.

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 coursework 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.

International Applicants—An international applicant not holding a prior degree from a U.S. Institution must submit an indicator of English proficiency including one of the following: 1) A TOEFL score of 575 PBT (233 CBT or 84 iBT) or 2) an IELTS score of 7.0. Other indicators of English proficiency may be considered on a case by case basis.

Provisional Admission—Following University guidelines, a student who is admitted provisionally to this program must receive a 3.00 GPA on the first 9 hours of graduate-level courses on the program of study taken at MSU following admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If the 3.00 is not attained, the provisional student may be dismissed from graduate study.

In addition, students must complete the foundation courses listed below or have equivalent undergraduate credit. The College of Business 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 M.S.I.S. program.

Foundation Course Replaces
Survey of Accounting Prin. of Financial Acc & Prin. of Managerial Acc
Survey of Statistics Business Statistical Methods I & II
Survey of Management Prin. 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 programming requirement include BIS 1733, BIS 1753, BIS 3733, CS 1233, CS 1253, and CS 1314. Note that these are just examples; any 6 hours of programming will be allowed.

Core Course Requirements
A student must complete a minimum of 30 hours of coursework at the graduate level. No more than 6 hours may be below the 8000 level. The M.S.I.S. degree requires 17 hours of required BIS courses and at least two BIS electives, plus free electives. Three hours of programming courses must be completed either before or in conjunction with the following.

BIS Required Courses:
BIS 8112 Management of Information Technology and Systems. 2 hours
BIS 8213 Advanced Systems Analysis and Design. 3 hours
BIS 8313 Advanced Database Design Administration. 3 hours
BIS 8513 Business Telecommunications. 3 hours
BIS 8613 MIS Administration. 3 hours
Admission Criteria
An applicant for the Graduate Certificate in Economics of Development program should hold a bachelor’s degree from a fully-recognized four-year institution of higher learning and must meet all University graduate admissions requirements. Students must have previously completed Principles of Microeconomics and Principles of Macroeconomics or equivalent. Students from all undergraduate majors are invited to apply; however, they will have to complete the required undergrad prerequisites or complete EC8043, Survey of Economics, in addition to the 12 hours of coursework required in the Certificate in Economics of Development.

Admission to the program requires a GPA of 3.00 or above out of 4.00 points over the last 60 semester hours of baccalaureate work. Some exceptions to these standards may be granted based on the strength of other materials contained in the student’s application. However, reasonable minimum levels of performance must be achieved in the applicant’s GPA.

International Applicants—An international applicant not holding a prior degree from a U.S. Institution must submit an indicator of English proficiency including one of the following: 1) A TOEFL score of 575 PBT (233 CBT or 84 iBT) or 2) an IELTS score of 7.0. Other indicators of English proficiency may be considered on a case by case basis.

Program of Study
A candidate for the Graduate Certificate in Economics of Development must complete at least 12 graduate credit hours of work with a minimum GPA of 3.0. Coursework must include at least two economics courses with one of them being in Economics of Development.

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 may not continue in the program with grades below B in more than 6 hours of core graduate coursework, regardless of the overall average. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on core graduate coursework. In addition, the normal MSU requirements for satisfactory progress in a graduate program will be applied.
GIS. Additionally, with approval from an advisor, courses not on the following list can be included in the student’s certificate program.

**Course List**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BQA 8443</td>
<td>Statistical Analysis for Business Decisions</td>
<td>3</td>
</tr>
<tr>
<td>EC 8103</td>
<td>Economics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>EC 6313</td>
<td>Introduction to Regional Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>EC 6333</td>
<td>Applied Regional Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>EC 6303</td>
<td>Theory of Economics</td>
<td>3</td>
</tr>
<tr>
<td>EC 6643</td>
<td>Economic Forecasting &amp; Analysis</td>
<td>3</td>
</tr>
<tr>
<td>AEC 6713</td>
<td>Quantitative Economics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 8113</td>
<td>Corporate Finance (Graduate Standing and FIN 3123 or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>FIN 8313</td>
<td>Financial Management of Projects</td>
<td>3</td>
</tr>
<tr>
<td>GR 6303</td>
<td>Principles of GIS</td>
<td>2</td>
</tr>
<tr>
<td>GR 6313</td>
<td>Advanced GIS</td>
<td>2</td>
</tr>
<tr>
<td>GR 6323</td>
<td>Cartographic Science</td>
<td>2</td>
</tr>
</tbody>
</table>

**NOTE:** Students must take all required prerequisites for courses selected from this list.

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**Business Administration Graduate Certificate Program**

**Dr. Sharon Oswald, Graduate Coordinator**

210 McCool Hall
Box 5288
Mississippi State, MS 39762
Telephone: 662-325-1891
E-mail: gsb@cobilan.msstate.edu

The mission of the Certificate Program in Business Administration 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 Graduate Certificate in Business Administration 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.

Admission to the Graduate Certificate in Business Administration requires a GPA of 3.00 or above out of 4.00 points over the last 60 semester hours of baccalaureate work. In some cases, exceptions may be granted based on the strength of other materials contained in the student’s application. However, reasonable minimum levels of performance must be achieved in the applicant’s GPA.

**International Applicants**—An international applicant not holding a prior degree from a U.S. Institution must submit an indicator of English proficiency including one of the following: 1) A TOEFL score of 575 PBT (233 CBT or 84 iBT) or 2) an IELTS score of 7.0. Other indicators of English proficiency may be considered on a case by case basis.

**Program of Study**

Coursework for the Graduate Certificate in Business Administration consists of a foundation, core, and electives. At a minimum a candidate for certificate must complete 12 hours of coursework beyond the foundation level.

**Foundation**—Candidates may be required to complete one or more prerequisite courses in order to complete their core and elective courses. Please see the MBA section for a listing of foundation courses.

**Core Courses**—All candidates for the Graduate Certificate in Business Administration must complete a core of 9 hours with 3 of those hours in the disciplines of Finance, Accounting, Economics or Quantitative Analysis. Students can choose from the following courses:

- ACC 8101 Analysis of Accounting Data. 1 hour
- ACC 8112 Financial Statement & Management Accounting for Business Decision Making. 2 hours
- BIS 8112 Management of Information Technology and Systems. 2 hours
- BIS 8122 Multimedia Presentation & Communication. 2 hours
- BL 8112 Law, Business Ethics, & Dispute Resolution. 2 hours
- BQA 8233 Quantitative Analysis and Business Research. 3 hours
- FIN 8313 Financial Management of Projects. 3 hours
- EC 8103 Economics for Managers. 3 hours
- FIN 8113 Corporate Finance. 3 hours
- MGT 8111 Human Resource Issues. 1 hour
- MGT 8112 Leadership Skills for Managerial Behavior. 2 hours
- MKT 8153 Strategic Marketing Management. 3 hours

**Electives**—The remaining 3 hours are selected with the advice and consent of the candidate’s advisor.

**Academic Performance**

A grade of C or better is required on all undergraduate prerequisite courses. A student in any graduate certificate program in the College of
Business may not continue in the program with grades below B in more than 6 hours of core graduate coursework, regardless of the overall average. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on core graduate coursework. In addition, the normal MSU requirements for satisfactory progress in a graduate program will be applied.

Graduate Certificate in Information Systems

Dr. Rodney Pearson
McCool Hall Room 302E
Box 9581
Mississippi State, MS 39762
Telephone: 662-325-3928
E-mail: rodney.pearson@msstate.edu

This non-degree graduate certificate program is designed to augment a student’s academic preparation for a diverse set of career objectives in which computer information systems will be a major component of the work activity. Courses in systems analysis, database design, security, telecommunications, and other topics will provide an opportunity for students to establish a coherent set of skills and knowledge that complement their primary knowledge domains, enabling such students to compete successfully in today's job marketplace and in the execution of their careers. The flexibility of the certificate program will facilitate greater opportunities for completion of the certificate requirements, regardless of the student’s schedule in their primary areas. It is presumed that these students will come from other disciplines in the College of Business (e.g., marketing, accounting, finance, etc.) as well as from other colleges and departments (e.g., forestry, engineering, biology, etc.).

A candidate for the Graduate Certificate in Information Systems (GCIS) must successfully complete 12 hours of approved coursework with a minimum GPA of 3.00; 9 of the 12 hours must be taken in approved BIS courses at MSU. Under normal circumstances, the 12 hours are taken from the following list.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 6113</td>
<td>BIS Security Management</td>
</tr>
<tr>
<td>BIS 6513</td>
<td>Microcomputers/Networks</td>
</tr>
<tr>
<td>BIS 6523</td>
<td>Advanced Languages II</td>
</tr>
<tr>
<td>BIS 8112</td>
<td>Management Information Technology &amp; Systems</td>
</tr>
<tr>
<td>BIS 8213</td>
<td>Advanced Systems Analysis &amp; Design</td>
</tr>
<tr>
<td>BIS 8313</td>
<td>Advanced Database Design &amp; Administration</td>
</tr>
<tr>
<td>BIS 8513</td>
<td>Business Telecommunications</td>
</tr>
<tr>
<td>BIS 8613</td>
<td>MIS Administration</td>
</tr>
<tr>
<td>BIS 8753</td>
<td>Information Systems Collaborative Project</td>
</tr>
</tbody>
</table>

At the discretion of the committee, up to 3 hours of related appropriate graduate coursework may be approved. Such approved coursework may be transferred into MSU or may be taken from another department at MSU with the committee’s approval. Students seeking such waivers should contact the committee chair with documentation about the course for which they want credit in the GCIS program. If official approvals for such substitutions are awarded, an official letter will be placed in the student’s advising file, copied to the student.

There are no prerequisites for this non-degree program. All normal course requirements apply. It is presumed that each applicant will have taken at least one undergraduate or graduate course in computer information systems or a related field.

A student may pursue the certification in coordination with the M.S.I.S. degree program. Admission requirements for the M.S.I.S. will be enforced.

A certificate completed within a degree program is usually considered a minor. Thus, if an M.B.A. student at MSU completed the requirements for the M.B.A. and the GCIS, that student could receive an M.B.A. with a GCIS minor. All Graduate School policies regarding both the major and the minor must be followed.

DEPARTMENTS

Adkerson School of Accountancy

Dr James Scheiner, Director and Graduate Coordinator
300 McCool Hall
Box EF
Mississippi State, MS 39762
Telephone: 662-325-3710
Fax: 662-325-1646
E-mail: sac@cobilan.msstate.edu

Graduate study is offered in the Adkerson School of Accountancy leading to the Master of Professional Accountancy (M.P.A.) degree or the Master of Taxation (M.TX.) 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 Adkerson 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.
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>ACC 6023</td>
<td>Advanced Accounting (ACC 3033). 3 hours</td>
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<tr>
<td>ACC 6043</td>
<td>Municipal and Governmental Accounting (ACC 2023). 3 hours</td>
<td></td>
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<tr>
<td>ACC 6053</td>
<td>International Accounting (ACC 2023). 3 hours</td>
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<tr>
<td>ACC 6063</td>
<td>Income Tax II (ACC 4013). 3 hours</td>
<td></td>
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<tr>
<td>ACC 6203</td>
<td>Accounting Internship (Senior standing and approval by Internship Director prior to internship). 3 hours</td>
<td></td>
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<tr>
<td>ACC 6990</td>
<td>Special Topics in Accounting. 1-9 hours</td>
<td></td>
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<tr>
<td>ACC 7000</td>
<td>Directed Individual Study. 3 hours</td>
<td></td>
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<tr>
<td>ACC 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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<tr>
<td>ACC 8013</td>
<td>Seminar in Financial Accounting Theory (ACC 4023). 3 hours</td>
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<tr>
<td>ACC 8023</td>
<td>Advanced Managerial Accounting (ACC 3013). 3 hours</td>
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<tr>
<td>ACC 8033</td>
<td>Business Assurance Services (ACC 4033). 3 hours</td>
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<tr>
<td>ACC 8043</td>
<td>Fraud Examination (ACC 3053 and ACC 4033). 3 hours</td>
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<tr>
<td>ACC 8053</td>
<td>Professional Accounting Policy (ACC 3033). 3 hours</td>
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<tr>
<td>ACC 8063</td>
<td>Research in Tax Practice and Procedures (ACC 4013). 3 hours</td>
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<tr>
<td>ACC 8073</td>
<td>Taxation of Corporations and Shareholders (ACC 4013). 3 hours</td>
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<tr>
<td>ACC 8083</td>
<td>Federal Estate and Gift Taxation (ACC 4013). 3 hours</td>
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<tr>
<td>ACC 8093</td>
<td>Taxation of Partnerships, S Corporations, Trusts, and Estates (ACC 4013). 3 hours</td>
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<tr>
<td>ACC 8101</td>
<td>Analysis of Accounting Data (ACC 2203 or equivalent). 1 hour</td>
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</tr>
<tr>
<td>ACC 8103</td>
<td>Income Taxation of Natural Resources (ACC 4013). 3 hours</td>
<td></td>
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<tr>
<td>ACC 8112</td>
<td>Financial Statement and Management Accounting Report Analysis for Decision Making (ACC 8303 or equivalent). 2 hours</td>
<td></td>
</tr>
<tr>
<td>ACC 8113</td>
<td>Advanced Income Tax and Wealth Management. 3 hours</td>
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<tr>
<td>ACC 8123</td>
<td>Tax Topics. 3 hours</td>
<td></td>
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<tr>
<td>ACC 8203</td>
<td>Advanced Accounting Analysis for Decision Making (ACC 2023, not open to undergraduate majors). 3 hours</td>
<td></td>
</tr>
<tr>
<td>ACC 8213</td>
<td>Financial Statement Analysis (ACC 8203 or equivalent). 3 hours</td>
<td></td>
</tr>
<tr>
<td>ACC 8303</td>
<td>Survey of Accounting. 3 hours</td>
<td></td>
</tr>
</tbody>
</table>

Finance and Economics
Dr. Mike Highfield, Department Head
Dr. Randy Campbell, Graduate Coordinator (Economics)

The Department of Finance and Economics offers the following graduate degrees through the college of Business:
- Master of Arts in Economics
- Doctor of Philosophy in Business Administration with a concentration in Finance
- Doctor of Philosophy in Applied Economics

The department also participates in the interdisciplinary Master of Business Administration (MBA) program. See the College of Business Administration section of this publication for MBA and PhD information.

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>BUS 9113</td>
<td>Preparing Future Business Faculty. 3 hours</td>
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</table>

Economics:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 6183</td>
<td>U.S. Economic History (completion of any 1000-level history course). 3 hours</td>
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<tr>
<td>EC 6213</td>
<td>Personnel Economics (EC 2113 and EC 2123). 3 hours</td>
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<tr>
<td>EC 6223</td>
<td>Labor Law and Employment Policy (3 hours of economics or consent of instructor). 3 hours</td>
<td></td>
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<tr>
<td>EC 6303</td>
<td>Theory of Economic Development (EC 2113 and EC 2123). 3 hours</td>
<td></td>
</tr>
<tr>
<td>EC 6313</td>
<td>Introduction to Regional Economic Development (EC 2113, EC 2123, and MA 1463 or consent of instructor). 3 hours</td>
<td></td>
</tr>
<tr>
<td>EC 6323</td>
<td>International Economic Relations (EC 2113 and EC 2123). 3 hours</td>
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<tr>
<td>EC 6333</td>
<td>Applied Regional Economics Development (EC 4313/6313). 3 hours</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>EC 6423</td>
<td>Introduction to Public Finance (EC 2113 and EC 2123)</td>
<td>3</td>
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<tr>
<td>EC 6433</td>
<td>Problems in State and Local Finance (EC 2113 and EC 2123)</td>
<td>3</td>
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<tr>
<td>EC 6523</td>
<td>History of Economic Thought (EC 2113 or consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>EC 6990</td>
<td>Special Topics in Economics. 1-9 hours</td>
<td></td>
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<tr>
<td>EC 7000</td>
<td>Directed Individual Study. 3 hours</td>
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<tr>
<td>EC 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
<td></td>
</tr>
<tr>
<td>EC 8103</td>
<td>Economics for Managers (EC 2113 and EC 2123, or EC 4043). 3 hours [Does not count toward the completion of the M.A. degree]</td>
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<tr>
<td>EC 8113</td>
<td>Labor Theory and Analysis (graduate standing). 3 hours</td>
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<tr>
<td>EC 8133</td>
<td>Econometrics I (BQA 8443, ST 6134 or equivalent and familiarity with linear algebra). 3 hours</td>
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<tr>
<td>EC 8143</td>
<td>Econometrics II (EC 8133). 3 hours</td>
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<tr>
<td>EC 8163</td>
<td>Microeconomics I (EC 3123, one semester calculus, or consent of instructor). 3 hours</td>
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<tr>
<td>EC 8173</td>
<td>Macroeconomics I (EC 3113, EC 3123 and one semester calculus, or consent of instructor). 3 hours</td>
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<tr>
<td>EC 8183</td>
<td>Industrial Organization (EC 8103 or equivalent). 3 hours</td>
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<tr>
<td>EC 8263</td>
<td>Microeconomics II (EC 8163). 3 hours</td>
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<tr>
<td>EC 8273</td>
<td>Macroeconomics II (EC 8173 or equivalent). 3 hours</td>
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<tr>
<td>EC 8323</td>
<td>Economic Analysis of Developing Nations (nine hours in economics, including EC 4303/6303 or equivalent). 3 hours</td>
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<tr>
<td>EC 8413</td>
<td>Game Theory (AEC 8163 or EC 8163 or consent of instructor) (Same as AEC 8413). 3 hours</td>
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<tr>
<td>EC 8423</td>
<td>Public Finance (EC 2113, EC 2123 and graduate standing). 3 hours</td>
<td></td>
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<tr>
<td>EC 8522</td>
<td>Seminar in the History Economic Thought (graduate standing or consent of instructor). 2 hours</td>
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<tr>
<td>EC 8643</td>
<td>Applied Economic Skills: Advanced Estimation and Diagnostics of Econometric Models (EC 8133 and EC 8143 or consent of instructor). 3 hours</td>
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<tr>
<td>EC 8990</td>
<td>Special Topics in Economics. 1-9 hours</td>
<td></td>
</tr>
<tr>
<td>EC 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
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**Finance:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>FIN 6123</td>
<td>Financial and Commodities Futures Markets (junior standing). 3 hours</td>
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</tr>
<tr>
<td>FIN 6923</td>
<td>International Financial Management (FIN 3123 or consent of instructor). 3 hours</td>
<td></td>
</tr>
<tr>
<td>FIN 6990</td>
<td>Special Topics in Finance. 1-9 hours</td>
<td></td>
</tr>
<tr>
<td>FIN 7000</td>
<td>Directed Individual Study. 1-3 hours</td>
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</tr>
<tr>
<td>FIN 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
<td></td>
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<tr>
<td>FIN 8113</td>
<td>Corporate Finance (Graduate standing and FIN 3123 or equivalent). 3 hours</td>
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<tr>
<td>FIN 8223</td>
<td>Problems in Corporation Finance (FIN 8113). 3 hours</td>
<td></td>
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<tr>
<td>FIN 8233</td>
<td>Advanced Financial Management (FIN 8113 or equivalent). 3 hours</td>
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<tr>
<td>FIN 8423</td>
<td>Portfolio Management (FIN 8113 or equivalent). 3 hours</td>
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<tr>
<td>FIN 8723</td>
<td>Financial Institutions Management (FIN 3113 and FIN 3123 or equivalent). 3 hours</td>
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<tr>
<td>FIN 8733</td>
<td>Financial Markets, Rates, and Flows (FIN 8113 or equivalent). 3 hours</td>
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</tr>
<tr>
<td>FIN 8990</td>
<td>Special Topics in Finance. 1-9 hours</td>
<td></td>
</tr>
<tr>
<td>FIN 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
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<tr>
<td>FIN 9233</td>
<td>Seminar in Corporate Finance (FIN 8233 or equivalent). 3 hours</td>
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</tr>
<tr>
<td>FIN 9433</td>
<td>Seminar in Portfolio Theory (FIN 8423). 3 hours</td>
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<tr>
<td>FIN 9733</td>
<td>Seminar in Financial Markets and Institutions (FIN 8733 or equivalent). 3 hours</td>
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**Insurance:**

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<tbody>
<tr>
<td>INS 6503</td>
<td>Risk Management (FIN 3123, MGT 3113, MKT 3013, or consent of instructor). 3 hours</td>
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<tr>
<td>INS 6990</td>
<td>Special Topics in Insurance. 1-9 hours</td>
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<tr>
<td>INS 8113</td>
<td>Insurance Education (Consent of instructor). 3 hours</td>
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<tr>
<td>INS 8512</td>
<td>Risk Management Seminar (Consent of instructor). 2 hours</td>
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**Real Estate Finance:**

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<tr>
<td>REF 6233</td>
<td>Real Estate Law (BL 2413 or consent of instructor). [Same as BL 6233]. 3 hours</td>
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<tr>
<td>REF 6353</td>
<td>Income Property Appraisal (REM 3333 or consent of instructor). 3 hours</td>
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</tr>
<tr>
<td>REF 6990</td>
<td>Special Topics in Real Estate and Mortgage Finance (Courses limited to two offerings under one title within two academic years). 1-9 hours</td>
<td></td>
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</tbody>
</table>
The Department of Management and Information Systems offers the following graduate programs:

- Master of Science in Information Systems (M.S.I.S.)
- Doctor of Philosophy in Business Administration with a concentration in Information Systems (Ph.D.)
- Doctor of Philosophy in Business Administration with a concentration in Management (Ph.D.)

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.

Graduate Courses—Course prerequisites are noted in parentheses.

Management:

- MGT 6990 Special Topics in Management. 1-9 hours
- MGT 7000 Directed Individual Study. 3 hours
- MGT 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
- 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 MGT 3114 or equivalent). 2 hours
- MGT 8123 Strategic Business Consulting (BQA 8233, MKT 8153, EC 8103, ACC 8112, FIN 8113, MGT 8112). 3 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
- MGT 8990 Special Topics in Management. 1-9 hours
- MGT 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree
- 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 6113 BIS Security Management (BIS 3233 or grade of B or higher in any 3 hours of computer-related coursework). 3 hours
- BIS 6513 Microcomputers/Networks (BIS 3523 or equivalent, or grade of B or higher in any 3 hours of computer-related coursework). 3 hours
- BIS 6523 Advanced Languages II (BIS 3523 or equivalent, or grade of B or higher in any 3 hours of computer-related coursework). 3 hours
- BIS 6533 Decision Support Systems (BIS 3233). 3 hours
- BIS 6990 Special Topics in Business Information Systems. 1-9 hours
- BIS 7000 Directed Individual Study. 3 hours
- BIS 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
- BIS 8112 Management Information Technology and Systems. 2 hours
- BIS 8122 Multimedia Communication and Presentation. 2 hours
- BIS 8213 Advanced Systems Analysis and Design (Prerequisite or co-requisite: BIS 8112 or any 3 hours of computer-related coursework). 3 hours
- BIS 8313 Advanced Database Design Administration (3 hours of computer programming with a grade of B or better). 3 hours
- BIS 8513 Business Telecommunications (Prerequisite or co-requisite BIS 8112 or equivalent). 3 hours
- BIS 8613 MIS Administration (3 hours of programming and prerequisite or co-requisite BIS 8112). 3 hours
- BIS 8753 Information Systems Collaborative Project (9 hours of graduate BIS coursework beyond 8112). 3 hours
- BIS 8990 Special Topics in Business Information Systems. 3 hours
- BIS 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree
- BIS 9113 Management Information Systems (MIS) Seminar (BIS 8213, BIS 8313). 3 hours
Marketing, Quantitative Analysis, and Business Law

Dr. Jason Lueg, Department Head and Graduate Coordinator
324 McCool Hall
Box 9582
Mississippi State, MS 39762
Telephone: 662-325-3163
E-mail: mqabl@cobilan.msstate.edu

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 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 6213  Internet Marketing (MKT 3013 or MKT 8072). 3 hours
MKT 6233  Golf Operations Management (PGM major, MKT 3213, or permission of instructor). 3 hours
MKT 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  Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
MKT 8072  Survey of Marketing (Graduate standing; equivalent of concurrent enrollment). 2 hours
MKT 8153  Strategic Marketing Management (MKT 8072 or equivalent). 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  Research 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
MKT 9000  Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree
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 8233  Quantitative Analysis and Business Research (MKT 3013 or MKT 8072 or equivalent; BQA 8443 or equivalent). 3 hours
BQA 8443  Statistical Analysis for Business Decision Making (Graduate standing and proficiency with spreadsheet software). 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 9333  Statistical Methods for Business (Doctoral student or permission of instructor). 3 hours
BQA 9533  Advanced Statistics for Business Decisions (BQA 8443). 3 hours

**Business Law:**
BL 6233  Real Estate Law (BL 2413 or consent of instructor). 3 hours
BL 6243  Entrepreneur Law (BL 2413, MGT 3323, or consent 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
BL 8990  Special Topic in Business Law. 1-9 hours
COLLEGE OF EDUCATION

Dr. Richard Blackbourn, Dean
Dr. J. Elton Moore, Associate Dean for Research and Assessment
Dr. Terry Jayroe, Associate Dean
309 Allen Hall
Telephone: 662-325-3717
Fax: 662-325-8784
Mailing Address: Box 9710, Mississippi State, MS 39762
Website: http://www.educ.msstate.edu/
E-mail: dkarriem@colled.msstate.edu

Degree Programs
(T=thesis; NT=non-thesis)
[1=Starkville, 2=Meridian, 5=Distance]

Department of Counseling & Educational Psychology

Master of Science
Major: Counselor Education (T; NT) [1, 2]

Master of Science
Major: Educational Psychology (T; NT) [1]

Educational Specialist
Major: Education
Concentrations: Counselor Education (T; NT) [1, 2]
              School Psychology (T; NT) [1]

Doctor of Philosophy
Major: College/Postsecondary Student Counseling & Personnel Services [1]

Doctor of Philosophy
Major: Counselor Education/Student Counseling & Guidance Services [1]

Doctor of Philosophy
Major: Educational Psychology [1]

Department of Curriculum, Instruction, & Special Education

Master of Arts in Teaching-Secondary
Major: Secondary Teacher Alternate Route (NT) [1, 2, 5]

Master of Science
Major: Elementary Education (NT) [1, 2]
Concentrations: Early Childhood Education (NT) [1]
              Middle Level Education (NT) [1]

Master of Science
Major: Secondary Education (NT) [1, 2]

Master of Science
Major: Special Education (NT) [1]

Educational Specialist
Major: Education
Concentrations: Elementary Education (T; NT) [1, 2]
               Secondary Education (T; NT) [1, 2]
               Special Education (T; NT) [1]

Doctor of Philosophy
Major: Curriculum & Instruction [1]

Department of Instructional Systems & Workforce Development

Master of Science
Major: Technology (NT) [1]

Master of Science in Instructional Technology
Major: Instructional Technology (NT) [1]

Educational Specialist
Major: Education
Concentration: Technology (T; NT) [1]

Doctor of Education
Major: Education
Concentration: Technology [1]

Doctor of Philosophy
Major: Instructional Systems & Workforce Development [1]

Department of Kinesiology

Master of Science
Major: Kinesiology
Concentrations: Exercise Physiology (T; NT) [1]
               Sport Administration (T; NT) [1]
               Sport Pedagogy (T; NT) [1]

Department of Leadership & Foundations

Master of Arts in Teaching
Major: Community College Education (NT) [1, 2, 5]

Master of Science
Major: School Administration (NT) [1, 2]

Master of Science (jointly with Alcorn State University)
Major: Workforce Education Leadership (NT) [5]

Educational Specialist
Major: Education
Concentration: School Administration (NT) [1, 2]

Doctor of Philosophy
Major: Community College Leadership [5]

Doctor of Philosophy
Major: Elementary, Middle & Secondary School Administration [1]
Counseling & Educational Psychology
Dr. Daniel Wong, Department Head
And Interim Graduate Coordinator
508 Allen Hall
Box 9727
Mississippi State, MS 39762
Telephone: 662-325-3426
E-mail: dw767@msstate.edu
Website: http://www.cep.msstate.edu/

Counseling Programs
The Department of Counseling and Educational Psychology offers graduate programs in college counseling, community counseling, general educational psychology, rehabilitation counseling, school counseling, school psychology, 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. For further information, write to Graduate Coordinator, Department of Counseling and Educational Psychology, Box 9727, Mississippi State, MS 39762.

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 mental health community agencies. 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, community counseling, and student affairs are accredited by the Council on the Accreditation of Counseling and Related Education Programs (CACREP), as are the doctoral programs in Counseling (PHCE) and in School Counseling (PHSE). The school counseling program is also accredited by the National Council for Accreditation of Teacher Education (NCATE).

Graduate study in counseling offers preparation in counseling at three levels:

a. The M.S. degree with concentrations in college counseling, community counseling, rehabilitation counseling, school counseling, and student affairs in higher education.

b. The Counseling emphasis for the educational specialist (Ed.S.) degree. The Ed.S. degree is designed to provide advanced coursework in school 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.

c. Doctor of Philosophy (Ph.D.) degrees in Counseling and School Counseling.

d. 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 in Counseling must hold a baccalaureate degree and a minimum GPA of 2.75 on the last 60 hours of undergraduate work. Satisfactory 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 concentration), a minimum GPA of 3.30 on all graduate work, and satisfactory GRE scores (verbal, quantitative, and analytical writing). An applicant for the school counseling concentration 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- or CORE-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 her initial objective advancement to regular status. A provisional student must receive not less than a 3.00 GPA on the first 9 hours of graduate-level courses after provisional admission to a degree program at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in
Unclassified status cannot be used to satisfy this requirement 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 any of the counseling programs is required to earn a grade of B or better in each skills course before being 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 coursework 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. An optional 60 semester hour program is available for rehabilitation counseling students.

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 and requires a thesis or directed individual study.

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 8043; COE 8053/8150; COE 8730/8740; and COE 8063 as a part of their degree programs. All students except Rehabilitation Counseling majors must also successfully complete COE 8203. 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 8703; COE 8073; and COE 8633 with 18 hours of approved electives. Students in the M.S. rehabilitation counseling emphasis must also successfully complete COE 8073; COE 8353; COE 8363; COE 8373; and 9 hours of approved electives. Students in the M.S. student affairs in higher education emphasis must also successfully complete COE 8523; COE 8533; COE 8543; COE 8553; COE 8533; COE 8543; COE 8573; HED 8113; and 6 hours of approved electives. Students in the M.S. school counseling emphasis must also complete COE 6903; COE 8903; COE 8073; and 6 to 9 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 8543; COE 8573; HED 8113 or CCL 8333; and 9 hours of approved electives.

During the Ed.S. degree program, all Counseling students from a non-CACREP program will be required to complete all coursework 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/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 9053; COE 9083; COE 9000 (dissertation 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 dissertation research/dissertation. Ph.D. students in Counseling may also complete 12-18 hours in a minor area. For additional information about the Ph.D. degrees in Counseling and in School Counseling, see the departmental handbook.

Doctoral Minor in Counseling
A doctoral minor in Counseling will constitute a minimum of 12 hours of Counseling coursework. A
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 coursework in:

- Counseling theory;
- Cultural foundations in counseling;
- An environmental specialty course; and
- At least one other counseling course.

### Counselor Education Program Courses:

Course prerequisites are noted in parentheses.

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Hours</th>
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<td>COE 6013</td>
<td>Facilitative Skills Development</td>
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<td>COE 6023</td>
<td>Introduction to Counseling</td>
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<td>COE 6050</td>
<td>Seminar for Guidance Counselors</td>
<td>1-3</td>
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<tr>
<td>COE 6303</td>
<td>Rehabilitation of Visually Impaired Persons</td>
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<td>COE 6313</td>
<td>Resources for Visually Impaired Persons</td>
<td>3</td>
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<td>COE 6323</td>
<td>Sensory Aid Technology</td>
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<td>COE 6353</td>
<td>Assistive Technology in the Rehabilitation Process</td>
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<td>COE 6363</td>
<td>Introduction to Sign Language</td>
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<td>COE 6373</td>
<td>Vocational Assessment of Special Needs Persons</td>
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<tr>
<td>COE 6383</td>
<td>Work Samples in Vocational Assessment (COE 8083 or equivalent)</td>
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<td>COE 6513</td>
<td>Paraprofessionals in Student Affairs (permission of instructor)</td>
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<tr>
<td>COE 6713</td>
<td>Issues in Aging</td>
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<td>COE 6743</td>
<td>Gender Issues in Counseling</td>
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<td>COE 6903</td>
<td>Developmental Counseling and Mental Health</td>
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<td>COE 7000</td>
<td>Directed Individual Study</td>
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<td>Counseling Skills Development (COE 8023)</td>
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<td>Counseling Theory</td>
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<td>COE 8043</td>
<td>Group Techniques and Procedures (COE 8013, 8023)</td>
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<td>COE 8053</td>
<td>Practicum (COE 8013, 8023, and permission of department)</td>
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<td>COE 8063</td>
<td>Research Techniques for Counselors. 3 hours</td>
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<td>COE 8073</td>
<td>Cultural Foundations in Counseling. 3 hours</td>
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<td>COE 8083</td>
<td>Assessment Techniques for Counselors. 3 hours</td>
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<td>Spirituality in Counseling</td>
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<td>COE 8173</td>
<td>Counseling Gifted Students</td>
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<td>Utilizing Art and Art Therapy in Counseling</td>
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<td>COE 8203</td>
<td>Placement and Career Development Counseling</td>
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<td>COE 8293</td>
<td>Supervised Project (permission of department)</td>
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<td>COE 8303</td>
<td>Family Counseling Theory</td>
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<td>COE 8353</td>
<td>Vocational Rehabilitation Counseling</td>
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<td>COE 8363</td>
<td>Psychological Aspects of Disability</td>
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<td>Medical Aspects of Disability</td>
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<td>COE 8383</td>
<td>Job Placement in Rehabilitation</td>
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<td>COE 8393</td>
<td>Advanced Practicum (COE 8053 and permission of department)</td>
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<td>COE 8413</td>
<td>Personal, Social, and Work Adjustment Counseling</td>
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<td>COE 8523</td>
<td>Student Development Theory</td>
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<td>COE 8533</td>
<td>Literature of Student Affairs</td>
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<td>COE 8543</td>
<td>Legal Issues</td>
<td>3</td>
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<td>COE 8553</td>
<td>Student Affairs in Higher Education</td>
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<td>COE 8563</td>
<td>Introduction to Assessment in Student Affairs</td>
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<td>COE 8573</td>
<td>College Counseling Services</td>
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<tr>
<td>COE 8623</td>
<td>Advanced Legal and Ethical Issues in Counseling</td>
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<td>COE 8633</td>
<td>Psychosocial Rehabilitation</td>
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<td>COE 8703</td>
<td>Principles of Clinical Mental Health Counseling</td>
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<td>COE 8730</td>
<td>Internship (COE 8053)</td>
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<tr>
<td>COE 8740</td>
<td>Supervised Academic Year Field Experience II: Internship (permission of department)</td>
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<td>COE 8750</td>
<td>Internship (permission of department)</td>
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<td>COE 8763</td>
<td>Counseling the Sexually Abused Client (COE 8023)</td>
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<tr>
<td>COE 8773</td>
<td>Counseling Chemically Dependent Clients</td>
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</tr>
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<td>COE 8783</td>
<td>Counseling the Chemically Dependent Family</td>
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<td>COE 8803</td>
<td>Crisis Response in Counseling (COE 8013, COE 8023, or consent of instructor)</td>
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<td>COE 8813</td>
<td>Counseling Elderly Clients</td>
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<td>COE 8903</td>
<td>School Counseling Services</td>
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<tr>
<td>COE 8990</td>
<td>Special Topics in Counselor Education. 1-9 hours</td>
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<tr>
<td>COE 8913</td>
<td>Counseling Children</td>
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<tr>
<td>COE 8923</td>
<td>Seminar in School Counseling</td>
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COE 9000  Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree.

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 or an equivalent course, 8073 or an equivalent course, 8703 and Educational Specialist or Doctoral standing or consent of instructor). 3 hours

COE 9083  Assessment Techniques in Counseling (EPY 8263, 8214). 3 hours

COE 9743  Advanced Doctoral Practicum (permission of department). 3 hours

COE 9750  Internship (permission of department). 1-9 hours

Higher Education Courses:

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

The following are admission criteria for either program (additional requirements may be required):

a) An overall GPA on the bachelor’s degree of at least 2.75;

b) Recent Graduate Record Examination (GRE) verbal, quantitative, and analytical writing scores;

c) An interview is generally required.

Students admitted to an educational or school psychology 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.

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 at least a 3.00 GPA on the first 9 hours of graduate-level courses after admission to a degree program at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement) 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 any of the educational or school psychology programs is required to earn a grade of B or better in core courses before he or she is permitted to progress to the next course in the sequence. Unsatisfactory performance in graduate level coursework 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 preliminary/comprehensive examination twice, failing the oral doctoral preliminary/comprehensive examination twice, or failing the doctoral dissertation defense twice. Any of these or combination of these failures will result in termination of the student’s graduate in educational or school psychology.

Educational Psychology Programs
These programs are designed to prepare an individual for employment in research, teaching, and service settings. The four-year doctoral program involves coursework in psychological foundations, research, educational psychology, and, if the student chooses, a minor. Within the educational psychology specialty,
students can choose to specialize in either cognition, learning, instruction, or measurement, statistics, and testing. Applications are reviewed continuously throughout the year. For further information, write to Graduate Coordinator; Department of Counseling and Educational Psychology; Box 9727; Mississippi State, MS 39762.

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, 6 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 coursework beyond the baccalaureate degree. All educational psychology Ph.D. students are required to complete successfully EPY 8523, EPY 8533, EPY 6613, EDF 8353, EPY 8263, EPY 9723, EPY 9313, PSY 6403, EPY 8293, PSY 8613, EPY 8253, PSY 8223, EPY 8223, EPY 6214, EPY 8214, EDF 9213, EPY 8993, EDF 9373, EDF 9263, EPY 9713, EPY 7003, EPY 9020, 6 hours of PSY-related electives, 3 hours of EDS electives, 9 hours in subspecialty electives, and 12-18 hours of minor area coursework. Participation in colloquia is also expected.

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 January 15. For further information, write to Graduate Coordinator, Department of Counseling and Educational Psychology; Box 9727; Mississippi State, 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: EPY 6113, EPY 6214, EPY 8253, EPY 8263, EPY 8293, EPY 8493, EPY 8690, 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.

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 requires an additional 31 hours beyond the M.S. degree in psychometry. The Ed.S. leads to AAA licensure in school psychology by the Mississippi State Department of Education and qualifies students to become Nationally Certified School Psychologists (which allows students to become certified as a school psychologist in most states). The Ed.S. degree typically requires an additional academic year of formal coursework beyond the M.S. in psychometry with an additional 300-hour practicum, and a 1500-hour internship completed in the schools during the fourth year. Ed.S. students are required to complete and defend an approved supervised research project and pass the PRAXIS II examination in school psychology. All Ed.S. students in school psychology are required to take the following courses: COE 8073, EPY 8790, EPY 9703, EPY 7000, EPY 8550 or EPY 8890, EPY 8780 (12 hours), and an advanced psychology or special education elective.
The Ph.D. program in educational psychology 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 psychometry 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 and Educational Psychology. Courses required for the doctoral degree in school psychology include: EPY 6113, EPY 6214, EPY 8214, EPY 8253, EPY 8263, EPY 8293 or equivalent, EPY 8493, EPY 8993, EPY 8703, EPY 8723, EPY 8763, EPY 8773, EPY 8690, EPY 8790, EPY 8890, EPY 8993, EPY 9000 (20 hours), EPY 9213, EPY 9703, EPY 9713, EPY 9730 (18 credit hours), COE elective, COE 8073, EDF 8363 or equivalent, EDF 9373, EDF 9443, PSY 6403 or equivalent, PSY 8223, special education electives (6 hours), advanced social psychology elective, and coursework in a focus area (12 hours). In addition to required coursework, 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).

Doctoral Minor in School Psychology
A doctoral minor in school psychology will constitute a minimum of 12 hours of coursework 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 coursework 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 4) school-based and psychological interventions for children and youth. 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 6133 Data-based Decision Making for Interventions in the School Setting (Not for EPY majors). 3 hours
EPY 6123 Applications of School Psychology (Permission of instructor). 3 hours
EPY 6214 Educational and Psychological Statistics. 4 hours
EPY 8113 History and Systems of Psychology. 3 hours
EPY 8123 Assessment of Infants, Toddlers, and Special Populations. 3 hours
EPY 8133 Crisis Prevention and Intervention in Schools and Related Settings. 3 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 8513 Psychometric Theory (EPY 6214, EPY 8214, EPY 8263 or equivalent). 3 hours
EPY 8550 Supervised Experience in School Psychology. (hours vary)
EPY 8690 Supervised Experience in School Psychology I
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 8790 Supervised Experience in School Psychology II
EPY 8890 Supervised Experiences in School Psychology (Clinic/Supervision). 1-6 hours
EPY 8933 Integrated Psycho-Educational Assessment (EPY 8723). 3 hours
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<tr>
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<td>Special Topics in Educational Psychology</td>
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<td>Dissertation Research/Dissertation</td>
<td>Hours and credits to be arranged; minimum of 20 hours required for degree</td>
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<td>EPY 9213</td>
<td>Advanced Analysis in Educational Research</td>
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<tr>
<td>EPY 9443</td>
<td>Single Subject Research Designs in Education [Same as EDF 9443]</td>
<td>3 hours</td>
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<td>EPY 9703</td>
<td>Contemporary, Legal, Ethical, and Professional Issues in School Psychology</td>
<td>(permission of the instructor). 3 hours</td>
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<td>EPY 9713</td>
<td>Advanced Psychological Counseling: Theory and Practice (Consent of instructor).</td>
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<td>Internship in School Psychology (Doctoral Level)</td>
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<td>COE 8073</td>
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<td>EDF 8363</td>
<td>Function and Methods of Research in Education</td>
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<td>EDF 9373</td>
<td>Educational Research Design</td>
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<td>Single Subject Research Designs in Education [Same as EPY 9443]</td>
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<tr>
<td>PSY 6403</td>
<td>Physiological Psychology (or other biology-based course)</td>
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<td>PSY 8223</td>
<td>Systems and Theories of Psychology</td>
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<td>EDX ----</td>
<td>Special Education Elective B</td>
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<td>PSY ----</td>
<td>Advanced Social Psychology Elective</td>
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<td>EPY 6033</td>
<td>Application of Learning Theories in Educational and Related Settings</td>
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<td>EPY 6053</td>
<td>Psychology and Education of the Mentally Retarded</td>
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<td>EPY 6073</td>
<td>Personality Adjustment in Educational and Related Settings</td>
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<td>EPY 6113</td>
<td>Behavioral and Cognitive Behavioral Interventions</td>
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<td>EPY 7000</td>
<td>Directed Individual Study</td>
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<td>EPY 8214</td>
<td>Advanced Educational and Psychological Statistics (EPY 4214/6214 or equivalent).</td>
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<td>Psychological Foundations of Education</td>
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<td>EPY 8253</td>
<td>Advanced Child and Adolescent Development and Psychopathology</td>
<td>3 hours</td>
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<td>EPY 8263</td>
<td>Psychological Testing in Educational and Related Settings</td>
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<td>EPY 8293</td>
<td>Cognitive Development</td>
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<td>EPY 8493</td>
<td>Personality Assessment in Educational and Related Settings (EPY 8263 and EPY 8723 or consent of the instructor).</td>
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<td>Psychology of the Gifted</td>
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<td>Practicum in Teaching Educational Psychology (EPY 8243)</td>
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<td>School Psychology</td>
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<td>EPY 8723</td>
<td>Individual Assessment for Educational and Related Settings (EPY 8263 or equivalent and consent of instructor).</td>
<td>3 hours</td>
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<td>EPY 8763</td>
<td>Seminar in Psychological Interventions in Educational and related Settings</td>
<td>(EPY 8703). 3 hours</td>
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<td>EPY 8773</td>
<td>Assessment and Interventions for Academic Skills Deficits</td>
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<td>EPY 8780</td>
<td>Internship in School Psychology (Consent of instructor)</td>
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<tr>
<td>EPY 8790</td>
<td>Supervised Experiences in School Psychology (Consent of instructor)</td>
<td>3-6 hours</td>
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<tr>
<td>EPY 8933</td>
<td>Interpretation of Intelligence/Psychometric Instruments</td>
<td>(EPY 8723). 3 hours</td>
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<td>Special Topics in Educational Psychology</td>
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<td>EPY 9263</td>
<td>Applied Research Seminar (EPY 6214, EDF 8363, and EDF 9373)</td>
<td>3 hours</td>
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<td>Seminar in Contemporary School Psychology (approval of instructor)</td>
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<td>Hours and credits to be arranged; minimum of 20 hours required for degree</td>
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<tr>
<td>EPY 9213</td>
<td>Advanced Analysis in Educational Research</td>
<td>3 hours</td>
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<tr>
<td>EPY 9313</td>
<td>Educational Evaluation Methods (EPY 8214 and EDF 9373 or equivalent coursework).</td>
<td>3 hours</td>
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<tr>
<td>EPY 9703</td>
<td>Contemporary, Legal, Ethical, and Professional Issues in School and Educational Psychology (permission of the instructor).</td>
<td>3 hours</td>
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<td>EPY 9713</td>
<td>Advanced Psychological Consulting: Theory and Practice (permission of the instructor and EPY 8214 or equivalent).</td>
<td>3 hours</td>
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<tr>
<td>EPY 9730</td>
<td>Doctoral Internship in School Psychology (Consent of instructor)</td>
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Admission Criteria for Each Degree

General Admission Criteria—The Department of Curriculum, Instruction, and Special Education (CISE) offers the Master of Science degree in Elementary Education, Secondary Education, and Special Education. The Department also offers the Master of Arts in Teaching—Secondary (MAT-S) degree. The Educational Specialist degree is offered with a major in Education and concentrations in Elementary Education, Secondary Education, and Special Education. The Doctor of Education may be earned with a major in Education and a concentration in Elementary Education or Secondary Education. The Doctor of Philosophy is offered in Curriculum and Instruction. Students applying for admission to graduate programs in the Department of Curriculum, Instruction, and Special Education must hold or be eligible to obtain a Class A teaching certificate in the appropriate teaching field (exceptions include those seeking Special Education certification only or the Special Education non-certified Emotional/Behavioral Disorder option and the MAT-S degree). A student applying for admission to a degree program in Curriculum, Instruction, and Special Education must submit a complete application packet to the Office of the Graduate School by April 1 for summer, May 1 for second term summer, July 1 for fall admission, and November 1 for spring admission. Applications not meeting the admission deadline will be held for completion and review for up to two semesters. After that time, the applicant must reapply.

A complete admission packet consists of: application to the graduate degree program; documentation of Class A teacher’s certificate or eligibility for licensure (exceptions noted above); official GRE scores; three letters of recommendation; statement of purpose (must include number of years and overview of teaching experience); and official transcripts from each college or university attended. Applicants for a doctoral program must also include in their packet two scholarly writing samples, a curriculum vitae or résumé, and documentation of at least three years teaching. Applicants to doctoral programs must be interviewed before an admission decision is made. Minimum grade point averages required for admission to each degree are:

- Master's degrees: minimum GPA 2.75 on last half of baccalaureate degree;
- Educational specialist degrees: minimum GPA 3.20 on master's degree;
- Doctoral degrees: minimum GPA 3.40 on previous graduate degree(s).

All new students admitted into a graduate program in CISE must attend the CISE Graduate Student Orientation, which is held in September and February.

Contingent Admission—There are no contingent admissions EXCEPT for those students who are applying the same semester they are graduating with another degree and the overall GPA is pending. Otherwise, the admission packet must be complete and all admission requirements met before admission will be considered.

Provisional Admission—The Department of Curriculum, Instruction, and Special Education follows the University’s Provisional Admission policy (refer to the admission section of this publication for the policy and criteria).

Graduate Programs of Study

The Master of Science degree in Elementary Education program of study requires a minimum of 36 semester hours of coursework beyond the bachelor’s degree, including EDF 8363, EDE 8313, EDE 8623, EDE 8633, EDE 8713, EDE 8733, EDE 8763, and RDG 8713, and a comprehensive written examination. A concentration is not required but two are available: Early Childhood Education and Middle Level Education. The Early Childhood concentration requires EDE 8513 and any two courses from EDE 8523; EDE 8533; EDE 8463; EDE 8543. The Middle Level Education concentration requires 9 hours from RDG 6113; EDE 8473; EDS 8683; EDS 8243; EDS 8653; EDS 8623; RDG 8653. The master’s program in elementary education is designed to enhance the teaching practice of teachers in grades preK-8 and in all content areas.

The Master of Science degree in Secondary Education requires a minimum of 36 semester hours of coursework beyond the bachelor’s degree and a written comprehensive exam. The focus of the program is on secondary education with supporting coursework from related fields and the teaching discipline. The required program of study includes EDS 8243; EDS 8613; EDS 8663; EDS 8653; EDF 8363; 3-12 hours of Education electives as approved by the advisor from the following courses: EDS 8103; EDS 8633; EDS 8623; EDS 8683; RDG 8593; and 9-18 credit hours of required content courses selected with...
advisor’s approval. A student’s program of study must be filed in the Department of Curriculum, Instruction, and Special Education by the end of the first semester. At least 15 hours of coursework on the program of study must be 8000-level courses.

The Master of Science degree in Special Education requires a minimum of 30 hours of coursework beyond the bachelor’s degree. Students must also pass a comprehensive written examination. The program is specifically intended to prepare classroom and resource teachers for public schools and institutions for students with disabilities. An add-on teaching-the-gifted endorsement is available. Clinical and practicum experiences are an integral component of the curriculum.

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 coursework. It is designed for a candidate with a bachelor’s degree in a content discipline or with significant higher-level coursework in a single discipline who wishes to prepare for a career as a teacher. In addition to the criteria for admission to a Master of Science degree program (with the exception of a teaching license), MAT-S candidates must pass the Praxis I and Praxis II-Specialty Area Test (in the licensure area); submit verification of 40 hours of work with children; and have completed 15 hours of coursework in the content area of licensure.

Required courses include EDS 8243 Advanced Planning and Managing; EDS 8613 The Middle and Secondary School Curriculum; EDS 8886 Dimensions of Learning I; EDS 66x3 Methods in Secondary Teaching; EDS 8896 Dimensions of Learning II; RDG 8653 Teaching Reading in Secondary Schools; EDS 8623 Principles of Effective Instruction; EDF 8173 Special Education in the Regular Classroom; and EDS 8103 Advanced Methodologies in Middle and Secondary Schools OR TKT 6803 Integrating Technology for Meaningful Living.

The Educational Specialist degree with a major in Education and concentration in Elementary or Secondary Education requires a minimum of 30 hours of coursework above the master’s degree including EPY 6214 and EDE/EDS 7000 and a comprehensive examination.

The Educational Specialist degree with a major in Education and concentration in Special Education requires a minimum of 31 hours of coursework including EPY 6214 Educational and Psychological Statistics; EDX 7000 Special Problem-Ed.S. Field Study; EDX 8133 Readings and Research in Special Education; and EDX 8123 Organization and Supervision of Special Education Programs. Specialist students must pass the Specialist-level written comprehensive examination.

The Doctor of Education* degree with a concentration in Education and concentration in Elementary or Secondary Education requires a minimum of 90 semester hours of coursework beyond the bachelor’s degree including EPY 8223, EPY 8214, EPI 9213, EDF 9313, EDF 8363, and EDF 9373, written and oral preliminary examinations, and a dissertation. Refer to the College of Education’s Doctoral Student Handbook for a detailed plan of study. *NOTE: The Department is not accepting applications to this program.

The Doctor of Philosophy in Curriculum and Instruction requires a minimum of 90 semester hours of coursework beyond the bachelor’s degree including EPY 8214, EPI 9213, EDF 8363, EDF 9373, EDF 9453, EDF 9463, EDF 9473, and EDF 9313; 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. At least two-thirds of the total hours of coursework on the plan of study, exclusive of dissertation hours, must be 8000 level courses.

Comprehensive Examinations
The written comprehensive examinations for the Master of Science in Secondary Education and Educational Specialist degrees in Elementary Education, Secondary Education, and Special Education are scheduled three times a year. The dates are the fourth Thursday of June, October, and February. Students can take the comprehensive examination when they are within six hours of completing their degree or are in their terminal semester, have an overall GPA of 3.00 after admission to the program, and have completed the courses that will be covered on the comprehensive examination.

Residency Requirement
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, neither in one regular semester and one summer session. For doctoral students there is no specific on-campus residence requirement. However, students will be required to complete one-half of required coursework and all dissertation credits from Mississippi State University.
Academic Performance
The Department of Curriculum, Instruction, and Special Education defines satisfactory performance in graduate level coursework as a grade of S on thesis/dissertation hours, and a GPA of at least 3.00 on all coursework attempted after admission to the program. Any of the following or combination of the following will result in the dismissal of a student from a CISE graduate program: three grades below a B; a GPA below 3.00; one grade of D or F; failure of the master’s or educationalist specialist’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. In the event a student’s performance warrants dismissal from a graduate program, the CISE Graduate Coordinator will petition the Dean of the College of Education to dismiss the student from the graduate program. The student will be notified of the action by certified mail.

If a student makes a grade below a B in a course on his or her plan of study, the course cannot be dropped from the plan of study. A student cannot repeat a course in which a grade of C or higher is earned.

Completion Requirements
All graduate students must attend the CISE graduate orientation during the first semester of enrollment. All graduate students submitting a thesis or dissertation must attend the thesis/dissertation workshops conducted by the Library within the year in which they are completing the dissertation and before receiving the graduate coordinator’s signature. All students seeking the Doctor of Philosophy degree must satisfy the research skills requirement before taking the written preliminary examination. (Refer to the CISE Graduate Handbook for options to meet this requirement.)

For further information concerning the degree programs offered by CISE, students should refer to the Department of Curriculum, Instruction, and Special Education Graduate Handbook (www.cise.msstate.edu) and the College of Education Doctoral Student Handbook (www.educ.msstate.edu).

Courses offered by the Department of Curriculum, Instruction, and special Education:
Elementary Education—Course prerequisites are noted in parentheses.
EDE 6990 Special Topics in Elementary Education. 1-9 hours
EDE 7000 Directed Individual Study. 1-6 hours
EDE 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree

EDE 8313 Theory and Development of Early Childhood Education. 3 hours
EDE 8423 Elementary School Methods. 3 hours
EDE 8433 The Elementary School Curriculum. 3 hours
EDE 8443 Seminar in Elementary Education. 3 hours
EDE 8463 Readings and Research in Children’s Literature. 3 hours
EDE 8473 The Elementary Social Studies Curriculum. 3 hours
EDE 8483 Teaching Physical Science in the Elementary Schools. 3 hours
EDE 8493 Teaching Biological Science in the Elementary Schools. 3 hours
EDE 8513 Curriculum and Program Developments in Early Childhood Education. 3 hours
EDE 8523 Practicum: Language Arts and Literacy Development in Early Childhood Education (EDE 4133, RDG 3113, RDG 3213, or the equivalent). 3 hours
EDE 8533 Behavioral Experiences in Early Childhood Education. 3 hours
EDE 8543 Mathematics Experiences in Early Childhood Education (EDE 4123 or the equivalent). 3 hours
EDE 8623 Content Area Literacy. 3 hours
EDE 8633 The Teaching of Writing. 3 hours
EDE 8713 Educating Young Adolescents. 3 hours
EDE 8733 Teaching Physical, Life and Earth Science in the Elementary/Middle School Classroom. 3 hours
EDE 8763 Elementary and Middle Level Mathematics Education. 3 hours
EDE 8893 Readings in Elementary Education (Doctoral or Specialist standing or consent of instructor). 3 hours
EDE 8990 Special Topics in Elementary Education. 1-9 hours
EDE 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree
EDE 9221 Professional Practice in Teacher Education [Same as EDX 9221 and EDS 9221]. 1 hour
EDE 9413 Practicum in College Teaching. 3 hours
EDE 9420 Research Practicum in Early Childhood Education (EDE 8513, EDE 8523, EDE 8533, EDE 8543). 1-6 hours
EDE 9553 Teaching and Teacher Education [Same as EDS 9553 and EDX 9553]. 3 hours

Readings in Education:
RDG 6113 Middle Level Literacy Development and Instruction (RDG 4113). 3 hours
RDG 6990 Special Topics in Readings. 1-9 hours
RDG 8153 Psychology of Reading. 3 hours
RDG 8453 Research in Reading. 3 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>RDG 8593</td>
<td>Issues and Innovations in Reading.</td>
<td>3 hours</td>
</tr>
<tr>
<td>RDG 8653</td>
<td>Teaching Reading in the Secondary Schools.</td>
<td>3 hours</td>
</tr>
<tr>
<td>RDG 8713</td>
<td>Teaching Struggling Readers and Writers.</td>
<td>3 hours</td>
</tr>
<tr>
<td>RDG 8990</td>
<td>Special Topics in Readings.</td>
<td>1-9 hours</td>
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<tr>
<td><strong>Secondary Education:</strong></td>
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<tr>
<td>EDS 6633</td>
<td>Methods of Teaching Mathematics (Admission to Teacher Education).</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDS 6643</td>
<td>Methods of Teaching Social Studies (Admission to Teacher Education).</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDS 6653</td>
<td>Methods of Teaching Science (Admission to Teacher Education).</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDS 6673</td>
<td>Methods of Teaching Language Arts (Admission to Teacher Education).</td>
<td>3 hours</td>
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<tr>
<td>EDS 6990</td>
<td>Special Topics in Secondary Education.</td>
<td>1-9 hours</td>
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<tr>
<td>EDS 7000</td>
<td>Directed Individual Study.</td>
<td>1-3 hours</td>
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<tr>
<td>EDS 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree.</td>
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</tr>
<tr>
<td>EDS 8103</td>
<td>Advanced Methodologies in Middle and Secondary Education.</td>
<td>3 hours</td>
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<tr>
<td>EDS 8243</td>
<td>Advanced Planning and Managing of Learning.</td>
<td>3 hours</td>
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<tr>
<td>EDS 8613</td>
<td>Middle and Secondary School Curriculum.</td>
<td>3 hours</td>
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<tr>
<td>EDS 8623</td>
<td>Principles of Effective Instruction in Secondary Schools.</td>
<td>3 hours</td>
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<tr>
<td>EDS 8633</td>
<td>Problems of Secondary Education.</td>
<td>3 hours</td>
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<tr>
<td>EDS 8643</td>
<td>Directed Reading in Secondary Education.</td>
<td>3 hours</td>
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<tr>
<td>EDS 8653</td>
<td>Issues of Accountability in Schools (EPY 3253 or EPY 6313 or permission of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDS 8663</td>
<td>Improving Instruction in Secondary Schools.</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDS 8683</td>
<td>Dispositions and Reflective Practice in Teaching (EDS 8623 or permission of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDS 8713</td>
<td>Curriculum Adjustments.</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDS 8886</td>
<td>Dimensions of Learning I (Admission to MATS program, EDS 8243, EPY 6313).</td>
<td>6 hours</td>
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<tr>
<td>EDS 8896</td>
<td>Dimensions of Learning II (Admission to MATS program, EDS 8243, EPY 6313).</td>
<td>6 hours</td>
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<tr>
<td>EDS 8990</td>
<td>Special Topics in Secondary Education.</td>
<td>3 hours</td>
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<tr>
<td>EDS 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
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</tr>
<tr>
<td>EDS 9413</td>
<td>Practicum in College Teaching.</td>
<td>3 hours</td>
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<tr>
<td><strong>Special Education:</strong></td>
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<tr>
<td>EDX 6113</td>
<td>Diagnostic-Prescriptive Methods and Materials for Early Childhood Disabled.</td>
<td>3 hours</td>
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<tr>
<td>EDX 6123</td>
<td>Diagnostic-Prescriptive Methods and Materials for Elementary Age Disabled.</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDX 6133</td>
<td>Diagnostic-Prescriptive Methods and Materials for Secondary Age Disabled [Same as TKT 6133 and COE 6133].</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDX 6353</td>
<td>Assistive Technology in Special Education.</td>
<td>3 hours</td>
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<tr>
<td>EDX 6503</td>
<td>Teaching the Severely and Profoundly Impaired Child.</td>
<td>3 hours</td>
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<tr>
<td>EDX 6603</td>
<td>Children and Youth with Physical Handicaps/Multiple Disabilities.</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDX 6613</td>
<td>Teaching Children and Youth with Physical/Multiple Disabilities.</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDX 6623</td>
<td>Curricular and Mobility Adaptations for Physical/Multiple Disabilities.</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDX 6953</td>
<td>Introduction to Sign Language [same as COE 4353/6353].</td>
<td>3 hours</td>
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<tr>
<td>EDX 6990</td>
<td>Special Topics in Special Education.</td>
<td>1-9 hours</td>
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<tr>
<td>EDS 7000</td>
<td>Directed Individual Study.</td>
<td>1-3 hours</td>
</tr>
<tr>
<td>EDS 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree.</td>
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<tr>
<td>EDS 8103</td>
<td>Advanced Contingency Management.</td>
<td>3 hours</td>
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<tr>
<td>EDS 8123</td>
<td>Organization and Supervision of Special Education.</td>
<td>3 hours</td>
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<tr>
<td>EDS 8133</td>
<td>Readings and Research in Exceptional Education.</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDS 8143</td>
<td>Early Education for the Disabled.</td>
<td>3 hours</td>
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<tr>
<td>EDS 8153</td>
<td>Language Development—Assessment and Remediation.</td>
<td>3 hours</td>
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<tr>
<td>EDS 8163</td>
<td>Teaching Strategies for the Gifted.</td>
<td>3 hours</td>
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<tr>
<td>EDS 8173</td>
<td>Special Education in the Regular Classroom.</td>
<td>3 hours</td>
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<tr>
<td>EDS 8183</td>
<td>Seminar in Learning Disabilities (EDX 3203 or equivalent).</td>
<td>3 hours</td>
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<tr>
<td>EDS 8203</td>
<td>Practicum: Diagnosis of Special Education Populations.</td>
<td>3 hours</td>
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<tr>
<td>EDS 8213</td>
<td>Practicum: Remediation of Special Education Populations.</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDS 8223</td>
<td>Supervision: Diagnosis of the Educationally Disabled Practicum.</td>
<td>3 hours</td>
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<tr>
<td>EDS 8303</td>
<td>Seminar in Mental Retardation.</td>
<td>3 hours</td>
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<tr>
<td>EDS 8333</td>
<td>Placement Services and Techniques [same as COE 8923].</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDS 8393</td>
<td>Seminar in Education for the Emotionally Disabled (EDX8403).</td>
<td>3 hours</td>
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<tr>
<td>EDS 8403</td>
<td>Teaching the Emotionally Disabled.</td>
<td>3 hours</td>
</tr>
</tbody>
</table>
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 8890 Special Topics in Special Education. 1-9 hours
EDX 9413 Practicum in College Teaching in Special Education. 3 hours

Instructional Systems & Workforce Development
Dr. Connie Forde, Department Head
Dr. James Adams, Graduate Coordinator
100 Industrial Education Building
Box 9730
Mississippi State, MS 39762
Telephone: 662-325-2281
E-mail: cforde@colled.msstate.edu

The Department of Instructional Systems and Workforce Development (ISWD) offers graduate coursework leading to master’s degrees in Technology and Instructional Technology. The master’s programs are offered with a thesis option, requiring a minimum of 30 semester credit hours and a comprehensive examination; the non-thesis option is also offered. The educational specialist and doctor of education degrees may be earned with a major in Education and a concentration in Technology. A doctor of philosophy degree program in Instructional Systems and Workforce Development is also available. For more information, contact the Department of Instructional Systems and Workforce Development, Box 9730, Mississippi State, MS 39762; telephone 662-325-2281; fax 662-325-7599; or e-mail cforde@colled.msstate.edu.

Admission Criteria
Prerequisites for admission into the graduate program include all the general requirements of the Office of the Graduate School. In addition, scores from all sections of the GRE must be submitted. International students must obtain a minimum TOEFL score of 550 PBT (213 CBT or 79 iBT) or a minimum IELTS score of 6.5.

A student applying for admission into the Department of Instructional Systems and Workforce Development must submit the complete application packet to the Office of the Graduate School no later than April 1 for summer first 5-week, summer second 5-week, and 10-week terms, July 1 for fall, and November 1 for spring. An international student must submit the complete application packet to the Office of the Graduate School no later than March 1 for summer first and second 5-week and 10-week terms, May 1 for fall, and September 1 for spring. No applications are accepted after these deadlines for the respective admission semester.

A complete admission packet consists of an application to the graduate degree program, three letters of recommendation, statement of purpose, official scores from all sections of the Graduate Record Examination (GRE), and official transcripts from all colleges and universities attended.

Admission criteria for a master’s degree include a minimum 2.75 undergraduate GPA from a four-year accredited institution or a minimum 3.00 graduate GPA. Admission criteria for the educational specialist degree (Ed.S.) include a minimum 3.20 GPA, plus an earned master’s degree from an accredited institution. For the doctoral degree, a minimum 3.40 GPA on previous graduate degree(s) earned from accredited institutions.

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 9 hours of graduate courses at Mississippi State University after admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.

Contingent Admission—There are no contingent admissions. The admission packet must be complete and all admission requirements met before admission will be considered.

Program of Study
The master’s degrees require the following credit hours of coursework above the baccalaureate degree for the non-thesis option: Master of Science in Instructional Technology, 33 hours; Master of Science in Technology, 30 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 also complete an oral comprehensive examination in defense of the thesis.

Educational specialist students must complete at least 31 semester hours above the master’s degree, and one-half or more of the hours must be 8000 level courses or above. A thesis (6 credit hours) or a Directed Individual Study (3 credit hours) is required. A final written comprehensive examination is required.

At least three academic years beyond the baccalaureate degree or a minimum of 90 hours semester hours are necessary to meet the course requirements for the Ed.D. degree. At least two-thirds of the hours must be at the 8000 level or above. At least three academic years beyond the baccalaureate degree or a minimum of 90 semester hours are necessary to meet the course requirements for the Ph.D. degree. At least two-thirds of the hours 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 no later than 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.

**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 preliminary/comprehensive 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 dismissal.

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 ensure that any student who has performed unsatisfactorily be recommended for termination from the degree program before the beginning of the subsequent semester.]**

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, upon the student’s appeal, is upheld by the graduate coordinator and/or department head, the student can then submit a written appeal to the Dean of the College of Education.

**Completion Requirements**—All graduate students submitting a thesis or dissertation must attend the thesis/dissertation workshops conducted by the Library for the Department of Instructional Systems and Workforce Development prior to the application for the written comprehensive examination. All students seeking the doctor of philosophy degree must satisfy research skills requirements before taking the written preliminary examination. (Refer to the *College of Education Doctoral Student Handbook* for options to meet these requirements.)

**Master of Science in Technology (M.S.)**

**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 Career and Technology Education. 3 hours
- TKT 8213 Content and Method of Teaching in Career and Technology Education. 3 hours

**Master of Science in Instructional Technology (M.S.I.T.)**

**Prerequisite Courses:**
- TKT 1273 Computer Applications. 3 hours
- TKB 4283 or 6283 Advanced Office Systems. 3 hours

One of the following two courses:
- TKB 4543 or 6543 Advanced Information Processing. 3 hours
- TKT 4743 or 6743 Desktop Publishing. 3 hours

**Required courses:**
- TKT 8703 Trends and Issues in Instructional Systems. 3 hours
- TKT 8713 Seminar in Industrial Research and Development. 3 hours
- TKT 8723 Instructional Design for Industry. 3 hours
- TKT 8200 Internship in Career and Technology Education. 1-6 hours
- TKT 8793 Directed Project in Instructional Technology. 3 hours
Educational Specialist Degree: Major in Education and concentration in Technology

Required courses:

EPY 6214 Educational and Psychological Statistics. 4 hours **AND**

TKT 7000 Directed Individual Study in Instructional Technology. 3 hours **OR**

TKT 8000 Thesis Research/Thesis. 6 hours

Additional courses selected with approval of the student’s graduate committee and the graduate coordinator. Program must include at least 31 credit hours of coursework.

Doctor of Education: Major in Education and concentration in Technology

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 the student’s graduate committee and the graduate coordinator.

The program also includes an area of emphasis (24-36 hours), optional minor (12-30 hours), dissertation research (20 hours) and electives.

Doctor of Philosophy in Instructional Systems and Workforce Development

A minimum of 93 semester hours of graduate credit is necessary to meet the Doctor of Philosophy in Instructional Systems and Workforce Development (ISWD) requirements.

In order for the program to reflect students’ content areas in research and foundation levels, students must take at least two research and statistics courses and at least two foundations courses from the Department of Instructional Systems and Workforce Development (ISWD).

Technology courses ................................. 24-36 hours

Research and Statistics

Core Requirement .................................... 22-26 hours

Foundation courses.................................. 12 hours

Higher Education.................................... 3 hours

Approved electives ................................. 12-18 hours

Dissertation............................................ 20 hours

Minor courses are optional.

In addition to the technology emphasis courses (24-36 hours), students are required to take at least 22-26 credit hours from the research and statistics courses, at least 12 credit hours of foundation courses and 3 hours of higher education courses. At least two courses in research and statistics must be selected from the ISLWD Department. Students are also required to take at least two foundation courses in ISWD. All department requirements must be completed, and all College of Education core requirement courses must be completed to satisfy degree requirements prior to graduation.

NOTE: EPY 6214 Educational and Psychological Statistics or equivalent (prerequisite for EPY 8214) is not counted as part of the minimum 93 semester hours necessary to meet the Doctor of Philosophy in Instructional Systems and Workforce Development (ISWD) degree requirements.

Research and Statistics Courses: (All of the following core courses are required. The list of courses shown below include the required College Core.)

EPY 8214 Advanced Educational and Psychological Statistics. 4 hours

(EPY 6214 Educational and Psychological Statistics or equivalent prerequisite.)

EPY 9213 Advanced Analysis in Educational Research. 3 hours

TKT 8243 Research Problems in Technology and Workforce Development. 3 hours

TKT 8713 Seminar in Industrial Research and Development. 3 hours

EDF 8363 Functions and Methods of Research in Education. 3 hours

EDF 9373 Educational Research Design. 3 hours

One of the following three courses:

EPY 9263 Applied Research Seminar. 3 hours

EDF 9443 Single-Subject Research Design for Education [Same as EPY 9443]. 3 hours

EDF 9453 Introduction to Qualitative Research in Education. 3 hours

Foundation Courses: (Both courses are required)

EPY 8223 Psychological Foundations of Education. 3 hours

EDF 9313 Philosophy of Education. 3 hours

And at least two of the following four foundation courses taught in the ISWD department are required.

TKT 8273 Contemporary Issues in Curriculum Planning in ISWD. 3 hours

TKT 8263 Philosophy and Administration of Career and Technology Education. 3 hours

TKT 8213 Content and Methods of Teaching Career and Technology Education. 3 hours

TKT 9213 Foundations of Workforce/Technology Education and Adult Learning Theories.

Higher Education Courses: (One of the following three courses is required)
NOTE: The courses selected for the individual technology emphasis are determined jointly by the student, major professor, and graduate committee based on individual student goals. However, all College of Education core and departmental requirements must be completed to satisfy degree completion requirements prior to graduation. Additional courses are selected with approval of student’s graduate committee and the graduate coordinator.

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 Technology Education. 3 hours

**TKT 6183** Coordination of Part-Time Education. 3 hours

**TKT 6213** Teaching Basic Business Subjects. 3 hours

**TKT 6223** Management of the Vocational-Technical Learning Environment. 3 hours

**TKT 6233** Design of the Vocational-Technical Instructional Program. 3 hours

**TKT 6253** Evaluation and Measurement of Students in Vocational Education and Technology. 3 hours

**TKT 6263** Diversity in Workforce and Educational Environments. 3 hours

**TKT 6463** Methods of Teaching Information and Communication Technology I (Keyboarding proficiency using the touch method). 3 hours

**TKT 6713** Authoring for Instruction (TKT 1273 or consent of instructor). 3 hours

**TKT 6733** Managing a Multimedia Learning Environment. 3 hours

**TKT 6743** Desktop Publishing. 3 hours

**TKT 6753** Presenting with Media. 3 hours

**TKT 6803** Integrating Technology for Meaningful Learning. 3 hours

**TKT 6813** Introduction of Instructional Systems. 3 hours

**TKT 6853** Philosophy and Principles of Vocational-Technical Instruction. 3 hours

**TKT 6863** Methods of Teaching Information and Communication Technology II (Keyboarding proficiency using the touch method and TKT 4663/4663 or instructor’s consent). 3 hours

**TKT 6990** Special Topics in Technology Teacher Education. 1-9 hours

**TKT 7000** Directed Individual Study. 1-6 hours

**TKT 8000** Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree

**TKT 8200** Internship in Career and Technology Education. 1-6 hours

**TKT 8213** Content and Methods of Teaching in Career and Technology Education. 3 hours

**TKT 8233** Analysis of Workforce Education Programs and Survey Research in Workforce Development. 3 hours

**TKT 8243** Research Problems in Instructional Systems and Workforce Development. 3 hours

**TKT 8263** Philosophy and Administration of Career and Technology Education. 3 hours

**TKT 8273** Contemporary Issues in Curriculum Planning in ISWD. 3 hours

**TKT 8703** Trends and Issues in Instructional Systems. 3 hours

**TKT 8713** Seminar in Industrial Research and Development. 3 hours

**TKT 8723** Instructional Design for Industry. 3 hours

**TKT 8733** Telecommunications: Applications in Scholarship. 3 hours

**TKT 8743** Interactive Media. 3 hours

**TKT 8753** Technology Issues for School Administrators. 3 hours

**TKT 8763** Seminar in Planning for Instructional Technology. 3 hours

**TKT 8773** Teaching and Training with Multi-media. 3 hours

**TKT 8793** Directed Project in Instructional Technology. 3 hours

**TKT 8803** Design and Evaluation of Instructional Software (TKT 1273). 3 hours

**TKT 8813** Issues in Distance Education. 3 hours

**TKT 8833** Design and Implementation of Data Networks. 3 hours

**TKT 8990** Special Topics in Technology Teacher Education. 1-9 hours

**TKT 9000** Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

**TKT 9213** Foundations of Workforce/Technology Education and Adult Learning Theories. 3 hours

**Industrial Education:**

**TKI 6113** Industrial Fluid Power (PH 1113 or higher and junior standing). 3 hours

**TKI 6203** Automated Systems (TKI 2113, TKI 4103, and senior standing). 3 hours
Survey of Energy Sources & Power Technology (3 semester hours of physical science or other physics & junior standing), 3 hours
TKI 6223
Quality Assurance (BQA 2113 & junior standing), 3 hours
TKI 6233
Maintenance Management (TKI 4223/6223), 3 hours
TKI 6263
Manufacturing Technology and Processes (TKI 3363), 3 hours
TKI 6303
Industrial Robotics (TKI 4103), 3 hours
TKI 6363
Manufacturing Systems (TKI 4223/6223), 3 hours
TKI 6413
Evolution of Technology (EN 3313 & senior standing), 3 hours
TKI 6990
Special Topics in Industrial Technology. 1-9 hours

Business Technology:
TKB 6283
Advanced Office Systems (TKB 2122 & TKB 2132), 3 hours
TKB 6543
Advanced Information Processing (TKB 1123), 3 hours
TKB 6583
Graphics and Web Design (TKT 1273), 3 hours
TKB 6990
Special Topics in Business Technology. 1-9 hours

Kinesiology
Dr. Stanley P. Brown, Department Head
Dr. John Lamberth, Graduate Coordinator
216 McCarthy Gym
Box 6186
Mississippi State, MS 39762
Telephone: 662-325-2963
E-mail: jgl@ra.msstate.edu

Graduate study is offered in the Department of Kinesiology leading to the degree of Master of Science in Kinesiology with concentrations in Exercise Physiology, Sport Pedagogy, and Sport Administration. The concentration in Exercise Physiology prepares students for careers in fitness and allied health. The concentration in Sport Pedagogy prepares professionals for leadership roles as physical educators, and the concentration in Sport Administration prepares professionals for advanced careers in the expanding sport industry. These concentrations also prepare students for advanced study at the doctoral level. Graduate teaching assistantships are available. To secure additional information write the Graduate Coordinator, Kinesiology, Box 6186, Mississippi State, MS 39762.

Admission Criteria
Regular admission to the Master of Science in Kinesiology 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). The applicant must meet general requirements for admission to graduate studies as stated in the Graduate School Bulletin.

An international student applying for admission must score a minimum of 550 PBT (213 CBT or 79 iBT) on the Test of English as a Foreign Language (TOEFL) or a minimum of 6.5 on the International English Language Testing Systems (IELTS) in addition to meeting all other admission criteria.

Provisional Admission—Provisional admission may be granted to a student with a 2.50 to 2.74 on a 4.00 scale and an appropriate GRE score. The student must complete, during the first 9 hours in the Master of Science in Kinesiology program, specific courses prescribed by his or her major professor. Provisionally admitted students must attain a minimum GPA of 3.00 on the first 9 graduate hours after admission to the program in order to remain in good standing. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement.

Program of Study
The Master of Science in Kinesiology degree requires a minimum of 33 hours of graduate credit. The student will develop, in cooperation with the major professor and other committee members, a program of study during the first semester in the program.

Academic Performance
The Master of Science in Kinesiology student must meet University and College of Education academic performance requirements in order to remain in good standing. These requirements are found elsewhere in the Mississippi State University Graduate School Bulletin. Students are encouraged to familiarize themselves with academic performance requirements.

Completion Requirements
The student in the Master of Science in Kinesiology program must successfully complete written comprehensive examinations prior to graduation. The student must be within 6 hours of graduation or in the last semester of study and be in good standing to be eligible to apply for comprehensive examinations.

The student pursuing Option 1 (Thesis) is required to complete 6 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. Upon completion of the thesis, the student must provide copies for the department head, major professor, and committee members.

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 at least one additional graduate faculty member from the Department of Kinesiology graduate faculty.

**Prerequisite and Core Courses**
The Master of Science in Kinesiology 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 (KI 8303 or approved equivalent) and an interpretation of data course (KI 8313) for each student. Requirements for core and elective classes vary according to concentration. The student should contact his or her major professor to complete a program of study appropriate for the concentration during the first semester of graduate study.

**Exercise Physiology Concentration**
*(33 credit hours)*

<table>
<thead>
<tr>
<th>Research Core (15 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KI 8303 Research in Kinesiology</td>
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<tr>
<td>KI 8313 Interpretation of Data in Kinesiology</td>
</tr>
<tr>
<td>EP 8273 Laboratory Instrumentation</td>
</tr>
</tbody>
</table>

**Thesis Option (6 hours)**

- KI 8006 Thesis Research or Non-Thesis Option (6 hours)
- KI 7006 Directed Individual Study

**Exercise Physiology Core** (9 hours)

| EP 8243 Cardiorespiratory Exercise Physiology |
| EP 8263 Exercise Biochemistry |
| EP 8283 Environmental Exercise Physiology |

**Exercise Physiology Tracks** (9 hours)

- Clinical Exercise Physiology (Choose 3)
- EP 8323 Science and Practice in Cardiopulmonary Rehabilitation |
- EP 8423 Graded Exercise Testing |
- EP 8433 Psychological Aspects of Exercise |
- EP 8443 Neuromuscular Mechanisms in Exercise |

**Sport Pedagogy Concentration**
*(33 credit hours)*

<table>
<thead>
<tr>
<th>Research Core (12 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KI 8303 Research in Kinesiology</td>
</tr>
<tr>
<td>KI 8313 Interpretation of Data in Kinesiology</td>
</tr>
<tr>
<td>KI 7006 Directed Individual Study</td>
</tr>
</tbody>
</table>

**Sport Pedagogy Core** (12 hours)

- PE 8103 Developing Coaching Expertise |
- PE 8163 Seminar in Physical Education |
- SS 8883 Ethical Issues in Sport |
- PE 8203 Psychological Aspects of Sport |

**Electives** (choose 3)

- EP 6153 Training Techniques for Exercise and Sport |
- EP 8253 Doping and Supplement Use in Sports |
- SS 8213 Funding of Sport |
- SS 8823 Sport Law |
- EP 8453 Biomechanics of Human Movement |

**Sport Administration Concentration**
*(33 credit hours)*

<table>
<thead>
<tr>
<th>Core (18 hours)</th>
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</thead>
<tbody>
<tr>
<td>SS 8123 Sport Management</td>
</tr>
<tr>
<td>SS 8803 Sport Law</td>
</tr>
<tr>
<td>SS 8823 Sport Sponsorships</td>
</tr>
<tr>
<td>SS 8883 Ethical Issues in Sport</td>
</tr>
<tr>
<td>KI 8303 Research in Kinesiology</td>
</tr>
<tr>
<td>KI 8313 Interpretation of Data in Kinesiology</td>
</tr>
</tbody>
</table>

**Electives** (9-12 hours)

Graduate-level courses subject to approval of graduate advisor.

**Concluding Options** (3-6 hours)

- Option 1: KI 8006 Thesis
- Option 2: KI 8713 Internship

**Graduate Courses**—Course prerequisites are noted in parentheses.

- EP 6113 Fitness Programs and Testing Procedures (EP 3304). 3 hours
Leadership and Foundations
Dr. Frankie Keels Williams, Department Head
Dr. Dwight Hare, Graduate Coordinator
245 Allen Hall
Box 6037
Mississippi State, MS 39762
Telephone: 662-325-0969
E-mail: dhare@colled.msstate.edu

The Department of Leadership and Foundations offers the following degrees: Master of Arts in Teaching in Community College Education; Master of Science in Workforce Education Leadership; Doctor of Philosophy in Community College Leadership; Master of Science in School Administration; Educational Specialist in Education with a concentration in School Administration; and Doctor of Philosophy in Elementary, Middle, and Secondary Education Administration.

A student applying for admission to a degree program in the Department of Leadership and Foundations must submit a complete admission packet to the Graduate School and adhere to the following deadlines. M.S. and Ed.S. programs will admit students for the summer term of each calendar year, and the application deadline is March 1. All other programs will admit students twice a year. Application deadlines are September 1 for spring and March for summer or fall. No applications are accepted after these deadlines for the respective admission semesters. 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 includes application to the graduate degree program; statement of purpose; three letters of recommendation; GRE scores; and official transcripts from each college or university attended. In order for applications to be evaluated for admission, the department requires additional information for each program area.

A student admitted to a program must maintain continuous enrollment. A student who is not enrolled for one semester is required to submit a readmission form and a new statement of purpose. The readmission must be approved by the graduate coordinator. If a student has not been enrolled for one calendar year, the applicant must submit a new application and statement of purpose and be considered for readmission into his/her degree program.
Degree Programs in Community College
Minimum Grade Point Average:
- Master's degrees – 2.75 on last half of bachelor's degree;
- Doctoral degree – 3.40 on previous graduate degree(s).

Additional Information required: Doctoral degree – résumé and completion of interview by the applicant.

Degree Programs in School Administration
Minimum Grade Point Average:
- Master's degree – 2.75 on last half of bachelor's degree;
- Educational Specialist degree – 3.20 on Master's degree;
- Doctoral degree – 3.40 on previous graduate degree(s).

Additional Information required:
- Master's and Educational Specialist degrees – copy of valid teacher's license, evidence of teaching experience, résumé, portfolio, and completion of interview by the applicant;
- Doctoral degree – résumé and completion of interview by the applicant.

Community College Programs
M.A.T. in Community College Education
The Master of Arts in Teaching in Community College Education requires 33 hours for completion. The degree prepares educators for service in rural community colleges and requires a minimum of 18 hours in the student’s teaching field. The professional education sequence of 15 hours includes a teaching practicum under the supervision of a community college instructor. The education courses introduce students to the philosophy and culture of the community college and prepare them to teach non-traditional and first-generation students. Sensitivity to diversity and adult learning theory is also included in the curriculum.

Program of Study—Core Courses: (9 credit hours)
- CCL 8113 Community College History/Philosophy. 3 hours
- CCL 8313 Community College Instructional Assessment. 3 hours
- EPY 6033 Application of Learning Theories in Educational Settings. 3 hours

Research Course: (3 credit hours)
- EDF 8363 Functions and Methods of Research in Education. 3 hours

Teaching Specialty/Content Area: (18 credit hours)
Internship (3-6 credit hours):
- EDS 8210 Internship In Supervision and Administration. 3 hours

M.S. in Workforce Education Leadership
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 MSU students;

Required Courses: 30 credit hours
Instructional Technology and Workforce Education. A minimum of 9 hours is required.

Offered at MSU only:
- TKT 8233 Career Planning and Occupational Decision-making. 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 (21 credit hours):
- 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

Ph.D. in Community College Leadership
Admission Criteria—To be eligible for 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, demonstrate interest in the mission of community colleges, 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

Required Courses: 24 credit hours
- 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 8353  Applications of Theory to Educational Administration. 3 hours
EDA 8383  Ethical Decision Making in Educational Administration. 3 hours
EDA 8993  Principles of Educational Facilities Design. 3 hours

**Interdisciplinary Requirements: (18 credit 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

**Research Requirement: (14 credit hours)**
EPY 6214  Educational and Psychological Statistics. 4 hours
EDF 8363  Functions and Methods of Research. 3 hours
EDL 8143  Educational Leaders as Instructional Supervisors. 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. 3 hours
EDL 8223  Internship II. 3 hours
EDL 8233  Internship III. 3 hours

**Required Electives: (6 credit hours)**
EPY 6214  Educational and Psychological Statistics. 4 hours
EDF 8363  Functions and Methods of Research. 3 hours
EDL 8143  Educational Leaders as Instructional Supervisors. 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. 3 hours
EDL 8223  Internship II. 3 hours
EDL 8233  Internship III. 3 hours

**School Administration Programs**

**M.S. in School Administration**
The Master of Science degree in School Administration requires 39 hours.

**Core Courses for Master’s Degree: (33 credit hours)**
TKT 8753  Technology Issues for School Administrators. 3 hours
EDL 8113  Contexts of Educational Leadership. 3 hours
EDL 8123  Principles of Educational Leadership. 3 hours

**Ph.D. in Elementary, Middle, and Secondary Education Administration**

**Admission Criteria**
To be eligible for admission to the program, an applicant must have earned a master’s degree from an accredited institution and meet basic requirements for doctoral students as published in the Mississippi State University Bulletin of the Graduate School.

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., GRE, 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 scores for the Graduate Record Examination (GRE). In a personal interview, the applicant should demonstrate potential for achieving excellence as an educational administrator. The applicant must also submit a writing sample.

**Program of Study**
Four distinct but connected thematic strands comprise the curriculum:
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 successfully complete the minimum of eight educational administration courses listed below.

EDA 8163* Public School Finance. 3 hours
EDA 8190 Workshop in Educational Administration and Supervision. 1-3 hours
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 8353* Applications of Theory to Educational Administration. 3 hours
EDA 8383* Ethical Decision Making in Educational Administration. 3 hours

*These courses must be completed at MSU. Many of these courses require prerequisites. The specific number of courses in Educational Administration required for a particular student may vary depending on previous degrees and experience.

2) Applied Research (5 courses)
The focus of this strand is on applied statistics and research methods. To satisfy the requirements, the student must 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
EPY 9213 Advanced Analysis in Educational Research. 3 hours
EPY 9263 Applied Research Seminar. 3 hours
EDF 9373 Educational Research Design. 3 hours
EDF 9453 Qualitative Techniques in Educational Research. 3 hours

The student’s dissertation research must 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 two ways: a. submit a research paper to a recognized journal, or b. present a research paper at an annual meeting of a regional or national association.

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 9313 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, experience, and coursework. For some students, foundations 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 credit hours (EDA 9000).

All graduate students submitting a thesis or dissertation must attend the thesis/dissertation workshops conducted by the Library prior to the application for the written comprehensive examination. All students seeking the Doctor of Philosophy degree must satisfy research skills requirements before taking the written preliminary examination. (Refer to the College of Educational Doctoral Student Handbook for options to meet these requirements.)
### Degree and Certificate Programs

(T=thesis; NT=non-thesis)

[1=Starkville, 2=Meridian, 5=Distance]

#### Department of Aerospace Engineering

- **Master of Science**
  - Major: Aerospace Engineering (T; NT) [1, 5]

- **Doctor of Philosophy**
  - Major: Engineering
  - Concentration: Aerospace Engineering [1, 5]

#### Department of Agricultural & Biological Engineering

- **Master of Science**
  - Major: Biological Engineering (T) [1]
  - Major: Biomedical Engineering (T) [1]

- **Doctor of Philosophy**
  - Major: Engineering
  - Concentration: Biological Engineering [1]
  - Major: Biomedical Engineering [1]

#### Department of Chemical Engineering

- **Master of Science**
  - Major: Chemical Engineering (T; NT) [1]

- **Doctor of Philosophy**
  - Major: Engineering
  - Concentration: Chemical Engineering [1]

#### Department of Civil & Environmental Engineering

- **Master of Science**
  - Major: Civil Engineering (T; NT) [1]

- **Doctor of Philosophy**
  - Major: Engineering
  - Concentration: Civil Engineering [1, 5]

#### Department of Computer Science & Engineering

- **Master of Science**
  - Major: Computer Science (T; NT) [1, 5]

- **Doctor of Philosophy**
  - Major: Computer Science [1, 5]

#### Department of Electrical & Computer Engineering

- **Master of Science**
  - Major: Computer Engineering (T; NT) [1, 5]

- **Master of Science**
  - Major: Electrical Engineering (T; NT) [1, 5]

- **Doctor of Philosophy**
  - Major: Computer Engineering [1, 5]
  - Major: Electrical Engineering [1, 5]

#### Department of Industrial & Systems Engineering

- **Master of Science**
  - Major: Industrial Engineering (T; NT) [1, 5]

- **Doctor of Philosophy**
  - Major: Industrial and Systems Engineering [1, 5]

#### Department of Mechanical Engineering

- **Master of Science**
  - Major: Mechanical Engineering (T; NT) [1]

- **Doctor of Philosophy**
  - Major: Engineering
  - Concentration: Mechanical Engineering [1]

#### Interdisciplinary Curricula

- **Master of Engineering**
  - Major: Engineering (NT) [5]

- **Master of Science**
  - Major: Computational Engineering (NT) [1]

- **Doctor of Philosophy**
  - Major: Computational Engineering [1]

- **Doctor of Philosophy**
  - Major: Engineering
Graduate Certificate Programs
Automotive Engineering
Computational Biology
Geospatial and Remote Sensing
Information Assurance Professional Certificate
Manufacturing
Materials Engineering
Six Sigma
Software Engineering

The Bagley College of Engineering was created at MSU in 1902 as the School of Engineering. Named for MSU alumnus James Worth Bagley (EE, B.S. 1961; M.S. 1966) in 2002, the Bagley College of Engineering (BCoE) ranks in the top 100 (81st) engineering graduate programs and is listed in the U.S. News & World Report-America's Best Graduate Schools. In fall 2010, graduate enrollment totaled 607 (277 M.S.; 330 Ph.D.). In support of its strategic plan, the BCoE seeks to increase doctoral enrollment and direct-admits qualified B.S. graduates to doctoral programs. The College is comprised of eight academic departments and offers 12 master’s degrees and 12 doctoral degrees. Excellence in research is a high priority for BCoE faculty. The College is comprised of tenure-track faculty members and research faculty who also play an active role in both teaching and research for graduate students. BCoE ranks 34th among colleges of engineering in NSF-national rankings by research and development expenditures in FY 09-10 (excludes Computer Science). With several state-of-the-art research centers and laboratories to provide hands-on experience for master’s and doctoral students, excellence extends beyond the classroom offerings. Information on BCoE research centers and laboratories may be accessed under General Information—Centers and Institutes in this publication. The BCoE Strategic Plan also focuses on the placement of BCoE Engineering graduates with major multinational companies and top research universities. BCoE is committed to a diverse student body and weeks to enrich graduate education by providing a multiplicity of views and perspectives that enhance research, teaching, and the development of new knowledge. Additional information about the Bagley College of Engineering is available at http://www.bagley.msstate.edu/.

Aerospace Engineering
Dr. Pasquale Cinnella, Department Head
Dr. J. Mark Janus, Graduate Coordinator
330 Walker Engineering Building
Box A
Mississippi State, MS 39762
Telephone: 662-325-3623
E-mail: grad-coord@ae.msstate.edu
Website: http://www.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, design optimization, structural reliability, fatigue and fracture, dynamics and controls, satellite engineering, and orbital mechanics. The Raspet Flight Research Laboratory, operated by the Bagley College of Engineering, is a unique University facility for graduate aeronautical research and education and has been an integral part of the Aerospace Engineering Department activities for decades. The department is a major participant in CAVS where members of this faculty provide primary leadership in computational simulations. Other department facilities consist of a low speed wind tunnel, two blow-down supersonic wind tunnels, and a universal testing machine laboratory. Graduate research and teaching assistantships are available.

Admission Criteria
In addition to meeting the requirements discussed in the General Requirements for Admission section of this publication, the minimum requirement for regular admission to the graduate program is a B.S. degree in Aerospace Engineering or a closely related field, with a 3.00/4.00 GPA for the junior and senior years. An applicant with a B.S. degree from a program that is not accredited by EAC/ABET (Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology) must submit GRE general-test scores. Applicants required to take the TOEFL examination (see Admission section for more details) must have a minimum score of 550 PBT (213 CBT or 79 iBT) or an IELTS score of 6.5. Applicants for the Ph.D. program should have a M.S. degree in Aerospace Engineering or a closely related field. Exceptionally qualified applicants (GPA in excess of 3.50/4.00 for junior and senior years) can apply for direct admission to the Ph.D. program.

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 2.75/4.00 for the junior and senior years.

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
   • all undergraduate prerequisite courses;
   • all graduate courses completed;
   • all graduate courses included on the program of study.

b) The student has no more than one grade less than C.

c) If the student registers for research credits in a given term, he/she receives a Satisfactory (S) grade at the end of the term.

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. If the appeal at the program level is unsuccessful, the 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.

Program of Study/Completion Requirements

In the thesis option a student must complete 24 hours of coursework for the master’s degree with half the work at the full graduate level (8000-level courses). The thesis option requires 6 hours of thesis research/thesis; the non-thesis option requires 9 hours of additional graduate coursework (33 hours) with at least 15 hours at the 8000 level. 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 coursework past the master’s degree, half of which are at the full graduate level (8000-level courses), plus a minimum of 20 hours of dissertation 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.

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

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>ASE 6013</td>
<td>Directed Project in ASE</td>
<td>3 hours</td>
</tr>
<tr>
<td>ASE 6133</td>
<td>Automatic Control of Aerospace Vehicles</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>(ASE 4123)</td>
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<tr>
<td>ASE 6153</td>
<td>Advanced Performance (ASE 2113 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ASE 6163</td>
<td>Introduction to Flight Test Engineering</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>(ASE 3313, ASE 4123)</td>
<td></td>
</tr>
<tr>
<td>ASE 6333</td>
<td>Helicopter Aerodynamics and Performance</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>(Consent of instructor)</td>
<td></td>
</tr>
<tr>
<td>ASE 6423</td>
<td>Introduction to Computational Fluid Dynamics</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>(Consent of instructor)</td>
<td></td>
</tr>
<tr>
<td>ASE 6433</td>
<td>Fundamentals of Numerical Grid Generation</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>(Consent of instructor)</td>
<td></td>
</tr>
<tr>
<td>ASE 6553</td>
<td>Engineering Design Optimization</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>(Consent of instructor)</td>
<td></td>
</tr>
<tr>
<td>ASE 6813</td>
<td>Advanced Orbital Mechanics (ASE 3813)</td>
<td>3 hours</td>
</tr>
</tbody>
</table>
Agricultural and Biological Engineering

Dr. Jonathan Pote, Department Head
Dr. Radhakrishnan Srinivasan, Graduate Coordinator
150 Agricultural Engineering Building
Box 9632
Mississippi State, MS 39762
Telephone: 662-325-3282
E-mail: 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, agricultural modeling, and bioenergy. The department has several major research laboratories including: remote sensing (the Kimbrough Precision Agriculture and Remote Sensing Engineering Laboratory), water quality and environmental engineering, cotton ginning (the MAFES/ABE Mini-Gin, a fully operational cotton gin), and bioenergy. 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 Graduate School, an undergraduate engineering degree (or remedial engineering coursework), a satisfactory performance on the GRE for students with a degree from a program that is not EAC/ABET accredited, 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 PBT (213 CBT or 79 iBT) or IELTS score of 6.5 or higher.

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 9 hours of graduate courses taken at Mississippi State University. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. 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.

**Program of Study/Completion Requirements**

The Master of Science (thesis only) in Biological Engineering requires 24 credit hours of coursework beyond the baccalaureate degree, at least one-half of which must be from 8000 level courses or above, and 6 or more credit hours of thesis research/thesis. Required courses are ST 8114, at least 1 credit hour of ABE 8911, 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 coursework beyond the baccalaureate degree, at least one-half of which must be from 8000 level courses or above, including at least 2 credit hours of ABE 8911, ABE 8921, or ABE 8931. Twenty hours of dissertation research/dissertation, a preliminary examination, a dissertation, and an oral examination in defense of the dissertation are required.

**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.**

<table>
<thead>
<tr>
<th>Biological Engineering:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ABE 6111</td>
<td>Biological Engineering Principles Laboratory (co-requisite: ABE 4812). 1 hour</td>
</tr>
<tr>
<td>ABE 6122</td>
<td>Biological Engineering Practices Laboratory. 2 hours</td>
</tr>
<tr>
<td>ABE 6413</td>
<td>Biological Control Systems (ABE 4312, MA 2913). 3 hours</td>
</tr>
<tr>
<td>ABE 6423</td>
<td>Bioinstrumentation II (ABE 3413 or graduate standing). 3 hours</td>
</tr>
<tr>
<td>ABE 6453</td>
<td>Cotton Ginning Systems and Management. 3 hours</td>
</tr>
<tr>
<td>ABE 6483</td>
<td>Introduction to Remote Sensing Technology (Graduate standing or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>ABE 6513</td>
<td>Dynamics of Aging (ZO 1023). 3 hours</td>
</tr>
<tr>
<td>ABE 6523</td>
<td>Biomedical Materials (ABE 3813 or CHE 3413 or ME 3403). 3 hours</td>
</tr>
<tr>
<td>ABE 6533</td>
<td>Rehabilitation Engineering (Senior standing in College of Engineering). 3 hours</td>
</tr>
<tr>
<td>ABE 6613</td>
<td>Biomechanics (EM 2413 and ME 3403). 3 hours</td>
</tr>
<tr>
<td>ABE 6624</td>
<td>Experimental Methods in Materials Research (CHE 3413 or ABE 3813). 3 hours</td>
</tr>
<tr>
<td>ABE 6723</td>
<td>Tissue Engineering and Regeneration (ABE 3813). 3 hours</td>
</tr>
<tr>
<td>ABE 6803</td>
<td>Biosystems Simulation. 3 hours</td>
</tr>
<tr>
<td>ABE 6821</td>
<td>Practices of Engineering Design (ABE 4812). 1 hour</td>
</tr>
<tr>
<td>ABE 6844</td>
<td>Sustainable Communities [Same as LA 4844/6844]. 3 hours</td>
</tr>
<tr>
<td>ABE 6863</td>
<td>Seed Conditioning Machinery (Same as AGN 6233). 3 hours</td>
</tr>
<tr>
<td>ABE 6990</td>
<td>Special Topics in Agricultural and Biological Engineering. 1-9 hours</td>
</tr>
<tr>
<td>ABE 7000</td>
<td>Directed Individual Study. 1-6 hours.</td>
</tr>
<tr>
<td>ABE 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
</tr>
<tr>
<td>ABE 8314</td>
<td>Corrosion of Biomedical Implants. 4 hours</td>
</tr>
<tr>
<td>ABE 8501-8531</td>
<td>Journal Reviews in Biomedical Engineering. 3 hours</td>
</tr>
<tr>
<td>ABE 8723</td>
<td>Cellular and Tissue Biomechanics. 3 hours. 3 hours</td>
</tr>
<tr>
<td>ABE 8801</td>
<td>Clinical Experience for Biomedical Engineering (Graduate standing in the Biomedical Engineering Program and consent of instructor). 1 hour</td>
</tr>
<tr>
<td>ABE 8911</td>
<td>Agricultural and Biological Engineering Seminar. 1 hour</td>
</tr>
<tr>
<td>ABE 8921</td>
<td>Agricultural and Biological Engineering Seminar. 1 hour</td>
</tr>
<tr>
<td>ABE 8931</td>
<td>Agricultural and Biological Engineering Seminar. 1 hour</td>
</tr>
</tbody>
</table>
**Biomedical Engineering**  
**An Interdisciplinary Curriculum**  
**Dr. Jonathan Pote, Department Head**  
**Dr. Steven Elder, Graduate Coordinator**  
100 Ag and Bio Engineering Building  
Box 9632  
Mississippi State, MS 39762  
Telephone: 662-325-3282  
E-mail: 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 finds 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 the Graduate School; have earned a bachelor’s degree in an engineering discipline from an EAC/ABET-accredited institution (students with a degree from a program that is not EAC/ABET-accredited will also have to perform satisfactorily on the GRE); 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 PBT (243 CBT or 96 iBT) or IELTS score of 7.5 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 an 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.

**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 9 hours of graduate courses taken at Mississippi State University. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. 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 coursework in mathematics, the sciences, or 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.

**Program of Study/Completion Requirements**

The M.S. degree requires 24 semester hours of coursework above the baccalaureate degree, at least half of which must be from 8000 level courses or above. In addition, 6 or more thesis research/thesis credit hours are required. As part of the 24 coursework 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 qualifying exam, a preliminary exam, a dissertation defense, and a minimum of 48 coursework hours beyond the B.S., and 20-32 dissertation research/dissertation 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 appointments 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 an M.S. 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); 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.

**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 more information, contact the Biomedical Engineering Graduate Program Coordinating Committee, Department of Agricultural and Biological Engineering, Box 9632, Mississippi State, MS 39762 or by e-mail at abe-head@abe.msstate.edu.

Information is also available at [http://www.abe.msstate.edu](http://www.abe.msstate.edu).

**Selected Courses for the Biomedical Engineering Graduate Program:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABE 6312</td>
<td>Biosystem Environments II.</td>
<td>2</td>
</tr>
<tr>
<td>ABE 6423</td>
<td>Bioinstrumentation II.</td>
<td>3</td>
</tr>
<tr>
<td>ABE 6513</td>
<td>Dynamics of Aging.</td>
<td>3</td>
</tr>
<tr>
<td>ABE 6523</td>
<td>Biomedical Materials.</td>
<td>3</td>
</tr>
<tr>
<td>ABE 6624</td>
<td>Experimental Methods in Materials Research.</td>
<td>4</td>
</tr>
<tr>
<td>ABE 6613</td>
<td>Biomechanics.</td>
<td>3</td>
</tr>
<tr>
<td>ABE 6633</td>
<td>Rehabilitation Engineering.</td>
<td>3</td>
</tr>
<tr>
<td>ABE 6803</td>
<td>Biosystems Simulation.</td>
<td>3</td>
</tr>
<tr>
<td>ABE 6990</td>
<td>Special Topics in Agricultural and Biological Engineering.</td>
<td>3-9</td>
</tr>
<tr>
<td>ABE 7000</td>
<td>Directed Individual Study.</td>
<td>1-6</td>
</tr>
<tr>
<td>ABE 8990</td>
<td>Special Topics in Agricultural and Biological Engineering.</td>
<td>1-9</td>
</tr>
<tr>
<td>ABE 8314</td>
<td>Corrosion of Biomedical Implants.</td>
<td>4</td>
</tr>
<tr>
<td>ABE 8324</td>
<td>Failure Analysis of Metallic Medical Implants.</td>
<td>4</td>
</tr>
<tr>
<td>ABE 8501</td>
<td>Journal Reviews in Biomedical Engineering.</td>
<td>1</td>
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<tr>
<td>ABE 8801</td>
<td>Clinical Experience for Biomedical Engineering.</td>
<td>1</td>
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<tr>
<td>ABE 8911</td>
<td>Agricultural and Biological Engineering Seminar.</td>
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<tr>
<td>BIO 6514</td>
<td>Animal Physiology.</td>
<td>4</td>
</tr>
<tr>
<td>BIO 6114</td>
<td>Cellular Physiology.</td>
<td>4</td>
</tr>
<tr>
<td>BIO 8104</td>
<td>Experimental Molecular Biology.</td>
<td>4</td>
</tr>
<tr>
<td>BIO 8133</td>
<td>Advanced Cell Biology.</td>
<td>3</td>
</tr>
<tr>
<td>CHE 6323</td>
<td>High Polymer Theory and Practice.</td>
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<tr>
<td>CME 8113</td>
<td>Computational Geometry.</td>
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<td>CPE 8813</td>
<td>Digital Image Processing.</td>
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</tr>
<tr>
<td>CSE 6633</td>
<td>Artificial Intelligence.</td>
<td>3</td>
</tr>
<tr>
<td>CSE 8663</td>
<td>Neural Computing.</td>
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<tr>
<td>ECE 6723</td>
<td>Microprocessors.</td>
<td>3</td>
</tr>
<tr>
<td>EM 6213</td>
<td>Advanced Mechanics of Materials.</td>
<td>3</td>
</tr>
<tr>
<td>EPP 8223</td>
<td>Scanning Electron Microscopy.</td>
<td>3</td>
</tr>
<tr>
<td>IE 6113</td>
<td>Human Factors Engineering.</td>
<td>3</td>
</tr>
<tr>
<td>IE 6133</td>
<td>Ergonomics.</td>
<td>3</td>
</tr>
<tr>
<td>MA 8203</td>
<td>Foundations of Applied Math I.</td>
<td>3</td>
</tr>
<tr>
<td>MA 8213</td>
<td>Foundations of Applied Math II.</td>
<td>3</td>
</tr>
<tr>
<td>ME 8243</td>
<td>Finite Elements in Mechanical Engineering.</td>
<td>3</td>
</tr>
</tbody>
</table>
ST 8214  Design and Analysis of Experiments. 4 hours a, b  

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

Chemical Engineering  
Dave C. Swalm School of Chemical Engineering  
Dr. Bill Elmore, Interim Department Head  
Rafael Hernandez, Graduate Coordinator  
330 Swalm Chemical Engineering Building  
Box 9595  
Mississippi State, MS 39762  
Telephone: 662-325-2480  
E-mail:gradstudies@che.msstate.edu

Graduate study is offered in the Dave C. Swalm School of Chemical Engineering leading to the degree of Master of Science in Chemical Engineering. Two options are available which include the traditional Chemical Engineering program and a program with emphasis in Industrial Hazardous Waste Management. The School also cooperates in an interdisciplinary program leading to the degree of Doctor of Philosophy in Engineering. Graduate research assistantships are available. To secure additional information, write to the Graduate Coordinator, Dave C. Swalm School of Chemical Engineering, Box 9595, Mississippi State, MS 39762.

Admission Criteria  
M.S. in Chemical Engineering; Ph.D. in Engineering (Chemical Engineering concentration)—Admission criteria differ based on the graduate degree sought. GRE scores are required on the quantitative, analytical, and verbal sections.

Direct Admission to the Ph.D. program  
Cumulative GPA of 3.20 on the last 64 hours of undergraduate coursework and GRE

Post M.S. - Ph.D. Program  
Cumulative GPA of 3.00 and GRE

M.S. Program  
Cumulative GPA of 3.00 on the last 64 hours of undergraduate coursework and GRE

International students must have a TOEFL score of 550 PBT (213 CBT or 79 IBT) or 6.5 on the IELTS.

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 (two semesters).

M.S.: Emphasis in Industrial Hazardous Waste Management—The applicant must have a B.S. in an engineering discipline from an ABET-accredited program. Admission criteria requires a cumulative GPA of 3.00 and GRE score.

Provisional Admission—Provisional admission is typically not available to students applying for graduate admission to the Dave C. Swalm School of Chemical Engineering.

Program of Study  
The direct-admission Ph.D. program requires a minimum of 36 hours of graduate coursework and a minimum of 20 hours of dissertation research/dissertation. For the post-M.S. Ph.D. program, a minimum of 12 hours of graduate coursework past the M.S. level and a minimum of 20 hours of dissertation research/dissertation are required. A student entering with an M.S. from another institution must demonstrate that he/she has satisfied the Chemical Engineering graduate core courses; if not, all or a portion of the 12 hours of core coursework may be required.

A minimum of 24 hours of coursework and 6 hours of Thesis/Research are required for the M.S. thesis-option 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 6 hours at the 6xxx/8xxx level)
• Technical Electives (minimum 6 hours at the 6xxx/8xxx level) - technical electives are chosen in conjunction with the research advisor.

Requirements for the M.S. with emphasis in Industrial Hazardous Waste Management include 24 hours of coursework, at least half of which must be at the 8xxx level. A minimum of 6 hours of Thesis/Research is 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.

**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 graduate level courses
- 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 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, or earns a D or F in any graduate level course will be 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 a 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 Research and Graduate Studies 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. If the appeal at the program level is unsuccessful, the 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.

**Completion Requirements for M.S. Students**

All M.S. students submitting a thesis must successfully defend the thesis before a committee composed of faculty members of the University. All non-thesis MS student must satisfactorily complete a comprehensive examination.

**Completion Requirements for Ph.D. Students**

Qualifying Examination: A Ph.D. student in good standing must complete a qualifying exam during the summer semester following his/her first full academic year. The qualifying exam consists of satisfactory completion of a research proposition course in which students will be guided through development of a National Science Foundation-formatted research proposal and a final defense of the proposal in front
of a committee composed of University graduate faculty.

Comprehensive Examination: Upon satisfactory completion of the graduate coursework, or within 6 hours of completion, a Ph.D. student must stand for a comprehensive examination. The student must present to his/her defense committee the results to date and planned research efforts through the completion of the Ph.D. program. This oral comprehensive examination will be comprised of a presentation by the student and a resulting question and answer session; it will provide a measure of the student’s research skills and research progress. The comprehensive examination must be passed at least six months prior to graduation. Successful completion of the comprehensive exam will result in the Ph.D. student’s being admitted to Ph.D. candidacy.

Dissertation Defense: The candidate must also prepare and successfully defend her/his dissertation before a committee composed of faculty members of the University.

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>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 6113</td>
<td>Chemical Reactor Design (MA 3253, C or better in both CHE 3123 and MA 3253). 3 hours</td>
</tr>
<tr>
<td>CHE 6134</td>
<td>Process Design (IE 3913, and C or better in the following three courses: CHE 3123, CHE 3213, and CHE 3223). 4 hours</td>
</tr>
<tr>
<td>CHE 6193</td>
<td>Automotive Engineering. 3 hours</td>
</tr>
<tr>
<td>CHE 6223</td>
<td>Process Instrumentation and Control (CHE 4113, C or better in CHE 3223). 3 hours</td>
</tr>
<tr>
<td>CHE 6233</td>
<td>Chemical Plant Design (CHE 4113, CHE 4134). 3 hours</td>
</tr>
<tr>
<td>CHE 6313</td>
<td>Transport Phenomena (Grade of C or better in the following courses: CHE 3213, MA 3253, and either CHE 3203 or EM 3313). 3 hours</td>
</tr>
<tr>
<td>CHE 6423</td>
<td>Fundamentals of Industrial Corrosion (CHE 3413). 3 hours</td>
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<tr>
<td>CHE 6513</td>
<td>Pulp and Paper Manufacturing Processes (CHE 2114, consent of instructor). 3 hours</td>
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<td>CHE 6613</td>
<td>Air Pollution Control Design: Theory and Practice (Consent of instructor). 3 hours</td>
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<td>CHE 6623</td>
<td>Chemical Process Safety. 3 hours</td>
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<td>CHE 6624</td>
<td>Experimental Methods in Materials Research (CHE 3413). 4 hours</td>
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<tr>
<td>CHE 6673</td>
<td>Industrial Microbiology. 3 hours</td>
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<tr>
<td>CHE 6703</td>
<td>Gas Hydrates (Consent of instructor). 3 hours</td>
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CHE 6990 Special Topics in Chemical Engineering. 3 hours
CHE 7000 Directed Individual Study. 1-6 hours
CHE 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
CHE 8011 Chemical Engineering Seminar. 1 hour
CHE 8113 Advanced Chemical Engineering Thermodynamics (CHE 3123, CHE 4113). 3 hours
CHE 8123 Chemical Kinetics and Dynamics (Consent of instructor). 3 hours
CHE 8223 Advanced Process Dynamics (CHE 3223). 3 hours
CHE 8233 Advanced Momentum, Heat, and Mass Transfer (CHE 3223). 3 hours
CHE 8243 Advanced Equilibrium Stage Operations (CHE 3223). 3 hours
CHE 8323 Corrosion of Metals. 3 hours
CHE 8523 Advanced Transport Phenomena. 3 hours
CHE 8713 Scientific Proposal Instruction and Development. 3 hours
CHE 8990 Special Topics in Chemical Engineering. 3 hours
CHE 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

Civil and Environmental Engineering

Dr. Dennis D. Truax, Department Head
Dr. James Martin, Graduate Coordinator
235 Walker Hall
Box 9546
Mississippi State, MS 39762
Telephone: 662-325-3050
E-mail: grad-coordinator@cee.msstate.edu

The Civil and Environmental Engineering Department offers graduate study leading to degrees of Master of Science (M.S.) and Doctor of Philosophy (Ph.D.). Both the M.S. and Ph.D. are available via BCoE Learning (online). Major areas of study are: construction engineering and management, construction materials engineering, environmental engineering, geotechnical engineering, structural engineering, transportation engineering, and water resources engineering. The Kelly Gene Cook, Sr. Civil and Environmental Engineering Laboratories include research capabilities in the areas of construction materials evaluation, environmental analysis of water and soils, structural systems analysis, geotechnical materials evaluation, structural systems analysis, transportation system modeling, and water resources
characterization. Graduate assistantships are supported through sponsored research, instructional support and teaching assignments, and other departmental resources.

For information about the graduate program contact: Graduate Coordinator, Civil and Environmental Engineering Department, Box 9546, Mississippi State, MS 39762-9546, or send electronic requests to grad-coordinator@cee.msstate.edu. Information about the Department of Civil and Environmental Engineering graduate program can be found at the department’s Website: http://www.cee.msstate.edu.

Admission Criteria
Prerequisites for regular admission to the Civil Engineering graduate program include all of the general requirements of the Office of the Graduate School. The minimum GPA for acceptance into the Civil and Environmental Engineering graduate program is 3.00 on a 4.00 scale. Graduates of a non-ABET program must submit acceptable GRE scores (verbal and quantitative). International students are required to have a minimum Test of English as a Foreign Language (TOEFL) score of 550 PBT (213 CBT or 79 iBT) or an International English Language Testing Systems (IELTS) score of 6.5. Students must possess core competency in the sub-discipline in which they will focus their graduate studies. Applicants who do not meet the requirements for regular admission may be considered for contingent or provisional admission at the discretion of the department.

Contingent Admission—Applicants meeting University requirements for admission but failing to meet the Department’s requirements for regular admission may be considered for contingent admission. To be removed from contingent status, the student must successfully complete remedial prerequisite courses defined by the graduate advisor.

Provisional Admission—A student accepted with a GPA of less than 3.00 is admitted on a provisional status. In such case, the student must achieve a minimum 3.00 GPA for the first 9 hours of graduate coursework. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. An applicant with a bachelor’s degree major other than civil environmental 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.

Program of Study/Completion Requirements
Thesis and non-thesis options are available for the Master of Science in Civil and Environmental Engineering. For the thesis option, the student must successfully complete a minimum of 24 hours of graduate courses, 6 hours of thesis research, and successfully submit and defend a research thesis. One-half of the coursework must be from upper level graduate courses (7000, 8000, and 9000).

For the non-thesis option, a minimum of 33 hours of graduate credit coursework must be successfully completed. A minimum of 15 hours of the coursework must be from upper level (7000, 8000, and 9000) graduate courses. The student, in coordination with their graduate committee, must develop a program of study which may include courses from other engineering disciplines, mathematics, the physical sciences, and business administration. Specifically, the program of study must include

- minimum 15 hours of coursework in engineering;
- minimum 12 hours of coursework in the department (9 hours of upper graduate level);
- minimum 9 credit hours in mathematics and statistics, engineering mechanics and operations, and basic science;
- graduate core curriculum requirements within the sub-discipline that the student is studying;
- maximum 6 hours of coursework in business management;
- maximum of 6 hours of CE 7000 as part of the minimum 24 hours of coursework; and
- minimum of 6 hours of CE 8000 (Thesis Research/Thesis) in addition to the minimum 24 hours of coursework; and
- maximum 9 hours of graduate credit may be transferred from other institutions.

No CE class for which the student receives the grade of C or lower may be used to satisfy the minimum graduate credit coursework requirement.

For the non-thesis option, a minimum of 33 hours of graduate credit coursework must be successfully completed. A minimum of 15 hours of the coursework must be from upper level (7000, 8000, and 9000) graduate courses. The student, in coordination with their graduate committee, must develop a program of study which may include courses from other engineering disciplines, mathematics, the physical sciences and business administration. Specifically, the program of study must include

- minimum 18 hours of coursework in the department (12 hours of upper graduate level)
- minimum 9 credit hours in mathematics and statistics, engineering mechanics and operations, and basic science
- graduate core curriculum requirements within the sub-discipline that the student is studying;
- maximum 6 hours of coursework in business management
- maximum of 6 hours of CE 7000 as part of the minimum 33 hours of coursework; and
• maximum 9 hours of graduate credit may be transferred from other institutions.
No CE class for which the student receives the grade of C or lower may be used to satisfy the minimum graduate credit coursework requirement.

Doctoral students must complete a minimum of the equivalent of three academic years of applicable coursework beyond the bachelor’s degree (interpreted as 75 credit hours beyond a bachelor’s degree or 45 hours beyond a master’s degree); this includes 20 hours of dissertation research. The doctoral student will be required to conduct research on an approved topic and prepare and successfully defend a dissertation.

**Academic Performance**

A student in the Civil Engineering graduate program is expected to maintain a combination of grades, grade point average, and satisfactory 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 meet satisfactory performance requirements, such as research progress, satisfactory results of written or oral examinations, 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 department’s graduate program will be made in writing. The student must submit a memorandum to the department’s graduate coordinator providing logic and details as to why the dismissal should be reversed.

**Core and Prerequisite Courses**—Course prerequisites are noted in parentheses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>CE 6103</td>
<td>Pavement Materials and Design (Grade of C or better in CE 3313 and CE 3413). 3 hours</td>
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<tr>
<td>CE 6143</td>
<td>Traffic Engineering (Grade of C or better in CE 3113, credit in ST 3123). 3 hours</td>
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<tr>
<td>CE 6183</td>
<td>Waterborne Transportation (Grade of C or better in CE 3113). 3 hours</td>
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<td>CE 6233</td>
<td>Control Surveys. (Grade of C or better in CE 2213). 3 hours</td>
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<td>CE 6243</td>
<td>Land Surveys (Grade of C or better in CE 2213). 3 hours</td>
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<td>CE 6313</td>
<td>Advanced Concrete Materials (Grade of C or better in CE 3313). 3 hours</td>
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<tr>
<td>CE 6513</td>
<td>Engineering Hydrology (Grade of C or better in CE 3803 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>CE 6523</td>
<td>Open Channel Hydraulics (Grade of C or better in CE 3813 or consent of instructor). 3 hours</td>
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<tr>
<td>CE 6533</td>
<td>Computational Methods in Water Resources Engineering (Grade of C or better in CE 3813). 3 hours</td>
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<tr>
<td>CE 6543</td>
<td>Advanced Reinforced Concrete (Grade of C or better in CE 4601 and CE 4633). 3 hours</td>
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<td>CE 6563</td>
<td>Sedimentation Engineering (Grade of C or better in CE 4523/6523). 3 hours</td>
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<td>CE 6603</td>
<td>Indeterminate Structures I (Grade of C or better in CE 3603). 3 hours</td>
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<td>CE 6613</td>
<td>Analysis of Structures for Forces of Nature (Grade of C or better in CE 4601; credit or current enrollment in CE 4623 or 4601). 3 hours</td>
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<td>CE 6653</td>
<td>Timber Design (Grade of C or better in CE 3603 and CE 3601). 3 hours</td>
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<tr>
<td>CE 6663</td>
<td>Matrix Methods of Structural Analysis (Grade of C or better in CE 4603/6603, or consent of instructor). 3 hours</td>
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<tr>
<td>CE 6673</td>
<td>Bridge Design (Grade of C or better in CE 4601 and CE 4633 or consent of instructor). 3 hours</td>
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<tr>
<td>CE 6683</td>
<td>Advanced Steel Design. (CE 4623). 3 hours</td>
</tr>
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<td>CE 6693</td>
<td>Reliability of Structures (IE 4613; credit or current enrollment in CE 4623 or CE 4633; or consent of instructor). 3 hours</td>
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<td>CE 6703</td>
<td>Construction Engineering and Management (Consent of instructor). 3 hours</td>
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<td>CE 6733</td>
<td>Construction Engineering Equipment and Methods. 3 hours</td>
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<tr>
<td>CE 6843</td>
<td>Environmental Engineering Chemistry (Grade of C or better in CE 3803 or consent of instructor). 3 hours</td>
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<td>CE 6873</td>
<td>Water and Wastewater Engineering (Grade of C or better in CE 3803). 3 hours</td>
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<td>CE 6893</td>
<td>Hazardous Waste Management (Consent of instructor). 3 hours</td>
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<tr>
<td>CE 6903</td>
<td>Civil Engineering Comprehensive (Graduation semester). 3 hours</td>
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<td>CE 6990</td>
<td>Special Topics in Civil Engineering.</td>
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<td>CE 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<td>CE 8000</td>
<td>Thesis Research/Thesis. Credit hours to be arranged; minimum of 6 hours required for degree</td>
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<td>CE 8133</td>
<td>Traffic Flow Theory (Grade of C or better in CE 4143/6143 or equivalent). 3 hours</td>
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<td>CE 8203</td>
<td>Finite Element Modeling in CEE (EM 4123/6123 and consent of instructor). 3 hours</td>
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<td>CE 8303</td>
<td>Material Characterization (CE 3413 and CE 3313 or equivalent). 3 hours</td>
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<tr>
<td>CE 8313</td>
<td>Pavement Performance and Rehabilitation (CE 3413, 3313, and CE 4103/6103, or consent of instructor). 3 hours</td>
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CE 8323 Inelasticity (EM 8113 and EM 8203). 3 hours
CE 8333 Advanced Pavement Materials (CE 3413 and CE 3313 or equivalent). 3 hours
CE 8343 Advanced Pavement Materials (CE 3413 and CE 3313, or equivalent). 3 hours
CE 8433 Advanced Foundations (Grade of C or better in CE 4433 or equivalent). 3 hours
CE 8453 Physical Properties of Soils (Grade of C or better in CE 3413 or equivalent). 3 hours
CE 8503 Data Analysis for CEE (MA 3253). 3 hours
CE 8533 Hydromechanics (Consent of instructor). 3 hours
CE 8543 Tidal Hydraulics (Consent of instructor). 3 hours
CE 8563 Groundwater Resource Evaluation (Grade of C or better in CE 3813). 3 hours
CE 8573 Hydro-environmental Analysis (Consent of instructor). 3 hours
CE 8593 Environmental Hydrology (Consent of instructor). 3 hours
CE 8613 Advanced Design in Metals (Consent of instructor). 3 hours
CE 8623 Theory of Plates and Shells (Grade of B or better in CE 3603 or consent of instructor). 3 hours
CE 8643 Prestressed Concrete (Grade of C or better in CE 4633 and CE 4601 or equivalent). 3 hours
CE 8663 Advanced Computational Methods in Structural Analysis (Grade of B or better in CE 4663 or consent of instructor). 3 hours
CE 8683 Finite Element Analysis in Structural Engineering (CE 4663 or equivalent). 3 hours
CE 8693 Advanced Structural Design (CE 4623 and CE 4633). 3 hours
CE 8803 Unit Processes and Operations in Environmental Engineering I. 3 hours
CE 8823 Unit Processes and Operations in Environmental Engineering II. 3 hours
CE 8843 Water Treatment Plant Design (Grade of B or better in CE 8803). 3 hours
CE 8863 Solid Waste Management (Consent of instructor). 3 hours
CE 8893 Industrial Waste Management (Consent of instructor). 3 hours
CE 8923 Surface Water Quality Modeling (Consent of instructor). 3 hours
CE 8933 Surface Water Quality Modeling (CE 8923). 3 hours
CE 8953 Fine Sediment Processes (Consent of instructor). 3 hours
CE 8963 Hydraulics of Closed Conduits (Consent of instructor). 3 hours
CE 8990 Special Topics in Civil Engineering.

CE 9000 Dissertation Research/Dissertation. Credit hours to be arranged; minimum of 20 hours required for degree.

Computational Engineering
An Interdisciplinary Curriculum
Dr. Roger King, Graduate Coordinator
2115 Center for Advanced Vehicular Systems (CAVS)
Box 9618
Mississippi State, MS 39762
Telephone: 662-325-2189
E-mail: grad-coordinator@hpc.msstate.edu

The Computational Engineering graduate program is interdisciplinary, with faculty drawn from the academic departments of the College of Engineering and the College of Arts and Sciences, as well as the research faculty of the HPC 2. Programs of study and research leading to both the Master of Science degree and the Doctor of Philosophy degree are available. There is an increased demand by industry, academia, and government for scientists and engineers with a better knowledge of the skills necessary to create new technologies and improve upon existing ones through simulation tools. Such programs come with curricula covering a large range of subjects, so that they can produce scientists and engineers with broad backgrounds and viewpoints. These scientists and engineers can then be expected to understand the basic approaches to solving analytical problems and also using mathematical and computational tools required to arrive at solutions. The program is open to students with undergraduate degrees in engineering, computer science, mathematics, or a physical science. Research assistantships are available through research projects in the HPC 2.

Admission Criteria
To be admitted, the student must meet the admission requirements of the Office of the Graduate School, 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 PBT (213 CBT or 79 iBT) on the Test of English as a Foreign Language (TOEFL) or 6.5 on the International English Language Testing System (IELTS). Students with a degree from a program that is not EAC/ABET accredited must have a satisfactory performance on the GRE.

In addition, highly qualified undergraduate students, with a minimum equivalent GPA of 3.50/4.00 on the
last 60 credit hours of undergraduate courses, or a first class with distinction degree classification for students from institutions where no GPA is reported, or a satisfactory performance on the GRE for students from a non-ABET-accredited program, can be directly admitted to the Ph.D. program.

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.

Program of Study
The specific requirements for the degrees are governed by the requirements of the Office of the Graduate School, the College of Engineering, 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.

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, 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 used to assemble a program of study. 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:

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<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ASE 6423</td>
<td>Introduction to Computational Fluid Dynamics ( Consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>ASE 6433</td>
<td>Fundamentals of Numerical Grid Generation ( Consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>ASE 6553</td>
<td>Engineering Design Optimization ( Consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>ASE 8363</td>
<td>Computational Heat Transfer ( Consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>ASE 8413</td>
<td>Computational Fluid Dynamics I ( Consent of instructor)</td>
<td>3</td>
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<tr>
<td>ASE 8423</td>
<td>Computational Fluid Dynamics II ( ASE 8413 or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>ASE 8533</td>
<td>Advanced Numerical Grid Generation (ASE 6433 or consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>CE 6663</td>
<td>Matrix Methods of Structural Analysis ( CE 4603/6603 or consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>CE 8663</td>
<td>Computational Methods in Structural Analysis ( CE 4663/6663 with grade of B or better or consent of instructor)</td>
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<tr>
<td>CE 8683</td>
<td>Finite Element Analysis ( CE 4663/ 6663)</td>
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<tr>
<td>CHE 8113</td>
<td>Advanced Chemical Engineering Thermodynamics (CHE 3123 and CHE 4113)</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>CHE 8123</td>
<td>Chemical Kinetics and Dynamics (Consent of instructor)</td>
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<td>CHE 8223</td>
<td>Advanced Process Computations (CHE 3223)</td>
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<td>CHE 8523</td>
<td>Advanced Transport Phenomena (Consent of instructor)</td>
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<tr>
<td>EM 8203</td>
<td>Applied Elasticity.</td>
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<td>EM 6213</td>
<td>Advanced Mechanics of Materials (EM 3213)</td>
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<td>IE 6113</td>
<td>Human Factors Engineering</td>
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<td>IE 6123</td>
<td>Psychology of Human Computer Interface (IE 4113/6113 or consent of instructor)</td>
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<td>IE 6613</td>
<td>Engineering Statistics I (MA 1723)</td>
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<td>IE 6623</td>
<td>Engineering Statistics II (Grade of C or better in IE 4613/6113)</td>
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<td>IE 6713</td>
<td>Operation Research I (CSE 1213 or IE 4613)</td>
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<tr>
<td>IE 6733</td>
<td>Linear Programming I (MA 3113)</td>
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<td>IE 6753</td>
<td>Systems Engineering and Analysis (IE 4613)</td>
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<tr>
<td>IE 6773</td>
<td>System Simulation I (Grade of C or better in IE 4613 and IE 4934)</td>
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<tr>
<td>IE 8153</td>
<td>Cognitive Error.</td>
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<td>IE 8723</td>
<td>Operation Research II (IE 4713/6713)</td>
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<td>IE 8743</td>
<td>Nonlinear Programming I (IE 4733 or MA 4733)</td>
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<td>IE 8753</td>
<td>Dynamic Programming (MA 2733 and IE 4613)</td>
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<td>IE 8773</td>
<td>System Simulation II (IE 4773/6773 or CSE 4023/6023)</td>
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<td>IE 8783</td>
<td>Neural Networks in Optimization (IE 4733/6733)</td>
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<td>ME 8243</td>
<td>Finite Elements in Mechanical Engineering (ME 4403 and EM 3213)</td>
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<td>ME 8223</td>
<td>Inelasticity (EM 8113 and EM 8203)</td>
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<td>ME 8813</td>
<td>Viscous Flow I.</td>
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<td>Viscous Flow II (ME 8813 or equivalent).</td>
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<td>ME 8843</td>
<td>Unstructured Grid Technology (ASE 8413)</td>
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<td>Intermediate Mechanics (PH 1133 or PH 2233 and MA 2733)</td>
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<td>PH 6323</td>
<td>Electromagnetic Fields I (PH 1133 or PH 2233 and MA 2733)</td>
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<td>PH 6413</td>
<td>Thermal Physics (PH 3613 and MA 2743)</td>
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<td>Computational Physics (PH 3613 and MA 3253)</td>
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<td>PH 6513</td>
<td>Intermediate Optics (PH 1123 or PH 2233 and MA 2733)</td>
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<td>PH 6713</td>
<td>Intro Quantum Mechanics (PH 3613 and MA 3253)</td>
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<td>Intro Solid State Physics (PH 3613)</td>
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<td>PH 8213</td>
<td>Mechanics (Consent of instructor)</td>
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<td>PH 8313</td>
<td>Electromagnetic Theory (PH 4333/6333 or equivalent)</td>
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<td>PH 8513</td>
<td>Statistical Mechanics (PH 4713 and PH 4413)</td>
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<td>PH 8743</td>
<td>Quantum Mechanics I (PH 4723/6723 and MA 3313)</td>
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<td>CSE 6163</td>
<td>High Performance Computing: Designing Parallel Algorithms (CSE 3324 or CSE 4733/6733 or equivalent)</td>
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<td>CSE 6214</td>
<td>Software Engineering I (CSE 2383 with grade of C or better)</td>
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<td>CSE 6233</td>
<td>Software Architecture and Design Paradigms (CSE 4214/6214)</td>
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<td>Software Testing and Quality Assurance (CSE 4214/6724)</td>
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<td>Software Engineering Project Management (CSE 4214/6214)</td>
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<td>Software Specification (CSE 4214/6214)</td>
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<td>Software Design (CSE 4214/6214)</td>
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<td>CSE 8263</td>
<td>Software Verification and Validation (CSE 4783 and either CSE 4214/6214 or CSE 8253)</td>
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<tr>
<td>CSE 8273</td>
<td>Software Requirements Engineering (CSE 4214/6214) with a grade of C or better)</td>
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</tr>
<tr>
<td>CSE 8373</td>
<td>Advanced Systems Programming (CSE 4733/6733)</td>
<td>3</td>
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<tr>
<td>CSE 8833</td>
<td>Algorithms (CSE 4833/6833)</td>
<td>3</td>
</tr>
<tr>
<td>CSE 8843</td>
<td>Complexity of Sequential and Parallel Algorithms (CSE 4833/6833)</td>
<td>3</td>
</tr>
<tr>
<td>CSE 9133</td>
<td>Topics in High Performance Computing (Consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>ECE 6713</td>
<td>Computer Architecture (ECE 3724 with a grade of C or better)</td>
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<tr>
<td>ECE 8063</td>
<td>Parallel Computing Architectures I (ECE 4713/6713 and CSE 4113/6113)</td>
<td>3</td>
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<tr>
<td>ECE 8073</td>
<td>Parallel Computing Architectures II (ECE 8063 and/or consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>MA 6313</td>
<td>Numerical Analysis I (CSE 1213 or equivalent, MA 3113 and MA 2743)</td>
<td>3</td>
</tr>
<tr>
<td>MA 6323</td>
<td>Numerical Analysis II (CSE 1213 or equivalent, MA 3113 and MA 3253)</td>
<td>3</td>
</tr>
<tr>
<td>MA 8363</td>
<td>Numerical Solution of Systems of Nonlinear Equations (MA 4313/6313 and MA 4323/6323)</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
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</tr>
<tr>
<td>MA 8383</td>
<td>Numerical Solution of Ordinary Differential Equations I (MA 4313/6313 and MA 4323/6323)</td>
<td>3 hours</td>
</tr>
<tr>
<td>MA 8393</td>
<td>Numerical Solution of Ordinary Differential Equations II (MA 8383)</td>
<td>3 hours</td>
</tr>
<tr>
<td>MA 8443</td>
<td>Numerical Solution of Partial Differential Equations I (MA 4313/6313, MA 4323/6323, and MA 4373/6373 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>MA 8453</td>
<td>Numerical Solution of Partial Differential Equations II (MA 8443)</td>
<td>3 hours</td>
</tr>
<tr>
<td>MA 8463</td>
<td>Numerical Linear Algebra (MA 4323/6323)</td>
<td>3 hours</td>
</tr>
<tr>
<td>MA 8473</td>
<td>Advanced Numerical Analysis I (MA 4933/6933)</td>
<td>3 hours</td>
</tr>
<tr>
<td>MA 8483</td>
<td>Advanced Numerical Analysis II (MA 8473)</td>
<td>3 hours</td>
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<tr>
<td>Graphics and Visualization:</td>
<td></td>
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<tr>
<td>CSE 6413</td>
<td>Principles of Computer Graphics (CSE 2383 with grade of C or better and MA 3113)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 8413</td>
<td>Visualization (CSE 4413/6413)</td>
<td>3 hours</td>
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<tr>
<td>CSE 8433</td>
<td>Advanced Computer Graphics (CSE 4413/6413)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 9413</td>
<td>Topics in Computer Graphics and Visualization (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 6413</td>
<td>Digital Signal Processing (Grade of C or better in ECE 3163)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 8413</td>
<td>Digital Spectral Analysis (ECE 3163 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 8423</td>
<td>Adaptive Signal Processing (ECE 3163 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 8433</td>
<td>Statistical Signal Processing (MA 4533/6533 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 8443</td>
<td>Pattern Recognition (MA 4533/6533 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 8453</td>
<td>Intro to Wavelets (ECE 3163 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 8473</td>
<td>Digital Image Processing (CSE 1233, CSE 1284 or equivalent, ECE 4413/6413)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 8483</td>
<td>Image and Video Coding (ECE 8473 or consent of instructor)</td>
<td>3 hours</td>
</tr>
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</table>

**Special Topics, Individual Study, Thesis and Dissertation Research:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 6990</td>
<td>Special Topics in Computational Engineering</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>CME 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
</tr>
<tr>
<td>CME 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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</tr>
<tr>
<td>CME 8990</td>
<td>Special Topics in Computational Engineering</td>
<td>1-9 hours</td>
</tr>
</tbody>
</table>

**M.S. Completion Requirements**

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 coursework (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 coursework and a professional project are required. No more than three hours of credit for the project can be applied toward the required 33 hours. At least 15 hours of coursework on the program of study must be at the 8000 or higher level.

**Ph.D. Completion Requirements**

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 the Graduate School.

For direct-admit Ph.D. students, 72 credit hours beyond the B.S. are required (48 credit hours of coursework and 24 credit hours of dissertation research).

**Computer Science and Engineering**

Dr. Donna Reese, Department Head  
Dr. Edward B. Allen, Graduate Coordinator  
300 Butler Hall  
Box 9637  
Mississippi State, MS 39762-9637  
Telephone: 662-325-2756  
Fax: 662-325-8997  
E-mail: office@cse.msstate.edu  
Website: [http://www.cse.msstate.edu](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.

The program of study of a Master of Science in computer science degree includes advanced courses in computer science that are selected according to the goals of the student. The program of study...
includes a thesis option, a professional project option, or courses-only option. The program of study of a Doctor of Philosophy (Ph.D.) in computer science degree includes advanced courses in computer science and significant scholarly research in computer science, presented in a dissertation. Applicants with bachelor degrees can apply for direct admission to the Ph.D. program. Applicants with master’s degrees are also welcome. Research in the department is focused in the areas of artificial intelligence, high-performance computing, computer security and computer forensics, software engineering, and visualization and graphics. Faculty, research assistants, thesis students, and dissertation students participate in a wide variety of research projects. Many research projects are multi-disciplinary or multi-specialty in nature.

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 application requirements to the Office of the Graduate School:

- 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
- statement of the applicant’s career goals and objectives
- 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, résumé, etc.) that supports his/her application.

The department’s application form for assistantships is separate from the application for graduate admission. This application can be downloaded from http://www.cse.msstate.edu/prospective/grad/assistantships.php. 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 the Graduate School. 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.

M.S. Admission Requirements
Regular Admission to the M.S. Program—For regular admission to the Master of Science program, the applicant must

- satisfy the minimum requirements for admission to graduate study as specified in the Mississippi State University Bulletin of the Graduate School (http://www.grad.msstate.edu/pdf/bulletin.pdf) and submit all documents as required in the application procedure;
- possess those qualifications and interests that indicate to the Computer Science and Engineering Graduate Studies Committee that the applicant will be successful in the MSU computer science Master of Science program;
- have a minimum TOEFL (Test of English as a Foreign Language) score of 550 PBT (213 CBT or 79 iBT) or IELTS (International English Language Testing System) score of 6.5. (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 (213 CBT or 79 iBT) or IELTS of 6.5 but at least 500 PBT (173 CBT or 61 iBT) or 5.5 on the IELTS 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 School 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
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:

- **CSE 2383** Data Structures and Analysis of Algorithms
- **MA 2733** Calculus III
- **ECE 3724** Microprocessors I
- **CSE 3813** Formal Languages
- **CSE 4713/6713** Programming Languages
- **CSE 4733/6733** Operating Systems I
- **CSE 4833/6833** Analysis of Algorithms

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. A program of study for the master’s degree may include 6000-level prerequisite courses.

**Program of Study**

All students must complete a minimum of 25 hours of graduate coursework 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:**
  - **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.

The program of study must include one of the following theory courses:

- **CSE 8813** Theory of Computation
- **CSE 8833** Algorithms

CSE 8843 Complexity of Sequential and Parallel Algorithms
CSE 8990 Special Topics in Computer Science on a topic which has been designated in advance by the department as a theory course fulfilling this requirement. The program of study must include one departmental seminar (1 credit hour): CSE 8011 Seminar.

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 the thesis director.

**Thesis option**—If the thesis option is selected, the student must

1. complete a minimum of 6 credit hours of CSE 8000, Thesis Research/Thesis;
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 (9 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 a 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.

**5-Year BS/MS Program Admission Requirements**

The 5-Year BS/MS Program enables a student to complete both a bachelor’s degree in Computer Science or Software Engineering and a master’s degree in Computer Science in approximately five years. The program has the following features.
• A student must apply for admission to the program no sooner than the end of the sophomore year (60 hours or more of graded courses). The criteria for admission assesses whether the applicant possesses those qualifications and interests that indicate to the department’s Graduate Studies Committee that the applicant will be successful in the MSU M.S. in Computer Science program. The applicant must have an overall GPA of 3.5.

• The admission application package to the program must have all of the elements of an application package for the M.S. degree, including GRE scores, and application fee.

• A student must have senior standing to enter the program. A student is classified as an undergraduate until all the requirements for the undergraduate degree are fulfilled, at which point the student is then classified as a graduate student.

• A maximum of 9 hours of graduate courses taken after entering the program and prior to completing the bachelor’s degree can count toward both the bachelor’s degree and the program of study for the Master of Science in Computer Science degree. In order to count toward the master’s degree, such courses must conform to other requirements for the M.S. degree. The program will follow procedures established by the Registrar for dual counting.

• During the senior year, if a student in the program enrolls in any graduate courses during a given term, then the maximum load of combined graduate and undergraduate courses is 16 credits during that fall or spring semester, or 6 credits during that summer (all summer terms combined).

• During the senior year, approval to enroll in graduate courses will be granted by the department’s graduate coordinator.

• During the senior year, graduate courses at the 6000-level will count toward the Bachelor of Science degree similarly to the corresponding 4000-level courses.

• During the senior year, graduate courses at the 7000-level or above will count toward the Bachelor of Science degree as technical electives.

• Upon earning the bachelor’s degree and making satisfactory progress, the student will be admitted to the Master of Science in Computer Science program. The department’s graduate coordinator will initiate the graduate admission process by the end of the first semester of the senior year.

• After earning the bachelor’s degree, the student will complete the M.S. degree requirements in the normal manner.

• An undergraduate student may opt out of the program at any time and complete only the undergraduate portion of the program. No additional dual counting will occur after opting out.

Ph.D. Admission Requirements

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 Bulletin of the Graduate School [http://www.grad.msstate.edu/pdf/bulletin.pdf] 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 PBT (213 CBT or 79 iBT) or IELTS (International English Language Testing System) score of 6.5. (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.)

Some students have master's degrees when they begin their Ph.D. studies, and some students pursue a Ph.D. degree directly after earning a bachelor’s degree (a "Direct Ph.D.").

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 PBT (or equivalent) but at least 500 PBT (173 CBT or 61 iBT) or 5.5 on the IELTS 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 School 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 coursework will consist of not fewer than 43 credit hours of applicable graduate courses exclusive of thesis, project, and dissertation. Graduate courses completed as part of a master’s degree or graduate courses completed prior to entry into the Ph.D. program may, when approved by the student’s Graduate Committee, be applied to the Ph.D. degree requirements. The Committee’s decision will be documented by an “Attachment Sheet for Program of Study” form. The program of study will cover remaining coursework requirements.

All undergraduate prerequisite courses listed for the master’s degree must be satisfied. A Ph.D. student’s program of study may include 6000-level prerequisite courses. At least one-half of all coursework toward the degree must be at the full graduate level (8000- or 9000-level courses). In addition, coursework toward the degree must contain the following specific elements:

1. **Major Coursework**—The major coursework requires a minimum of 43 credit hours consisting of the following:
   a. Two full graduate courses from the Theory of Computation area:
      - CSE 8813 Theory of Computation
      - 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 coursework, even if they are offered from another area or by another department.

2. **Minor**—A minor is defined by the Graduate School as a current block of coursework 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 credits is required. A student may enroll in dissertation hours only with the approval of his/her major professor, who is the instructor of record and will assign a grade (S or U).

**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, typically taken during the student’s first year of study; a preliminary examination, taken after the student has completed (or is within 6 hours of having completed) all coursework and has had a dissertation topic approved; and the final examination, taken when all other examinations and the dissertation have been completed.
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.

**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 retake 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 evaluates 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 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
• 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 9 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>Prerequisites</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 6753</td>
<td>Foundations in Computation</td>
<td>CSE 1213 or CSE 1233 or CSE 1273 or CSE 1284 with grade of C or better, or permission of instructor [No credit for students in Computer Science, Computer Engineering, or Software Engineering degree programs].</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 6990</td>
<td>Special Topics in Computer Science</td>
<td></td>
<td>1-9 hours</td>
</tr>
<tr>
<td>CSE 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
<td></td>
</tr>
<tr>
<td>CSE 8000</td>
<td>Thesis Research/Thesis</td>
<td>Hours and credits to be arranged; minimum of 6 hours required for degree</td>
<td></td>
</tr>
<tr>
<td>CSE 8011</td>
<td>Seminar</td>
<td>1 hour</td>
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<tr>
<td>CSE 8080</td>
<td>Directed Project in Computer Science</td>
<td>1-3 hours</td>
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<tr>
<td>CSE 8990</td>
<td>Special Topics in Computer Science</td>
<td>1-9 hours</td>
<td></td>
</tr>
<tr>
<td>CSE 9000</td>
<td>Dissertation Research/Dissertation</td>
<td>Hours and credits to be arranged; minimum of 20 hours required for degree</td>
<td></td>
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<tr>
<td>CSE 6623</td>
<td>Computational Biology</td>
<td>(BCH 4113/6113 or equivalent and CSE 1384 or CSE 4613/6613).</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 6633</td>
<td>Artificial Intelligence</td>
<td>(CSE 2383 and CSE 2813 with a grade of C or better).</td>
<td>3 hours</td>
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<tr>
<td>CSE 6653</td>
<td>Cognitive Science</td>
<td>(CSE 4633/6633 or PY 4713 or PHI 4143/6143 or AN 4623/6623 or EN 4403/6403).</td>
<td>3 hours</td>
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<tr>
<td>CSE 6663</td>
<td>Human-Computer Interaction</td>
<td>(CSE 3813 with a grade of C or better for CS majors, permission of instructor for non-majors).</td>
<td>3 hours</td>
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<tr>
<td>CSE 8613</td>
<td>Cognitive Models of Skill (Graduate Standing)</td>
<td></td>
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<tr>
<td>CSE 8673</td>
<td>Machine Learning</td>
<td>(CSE 4633/6633).</td>
<td>3 hours</td>
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<tr>
<td>CSE 9633</td>
<td>Topics in Artificial Intelligence (consent of instructor)</td>
<td></td>
<td>3 hours</td>
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<tr>
<td>CSE 6214</td>
<td>Introduction to Software Engineering</td>
<td>(CSE 2383 with a grade of C or better).</td>
<td>4 hours</td>
</tr>
<tr>
<td>CSE 6223</td>
<td>Managing Software Projects</td>
<td>(CSE 4214/6214 with a grade of C or better).</td>
<td>3 hours</td>
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<tr>
<td>CSE 6233</td>
<td>Software Architecture and Design Paradigms</td>
<td>(CSE 4214/6214 with a grade of C or better).</td>
<td>3 hours</td>
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<tr>
<td>CSE 6283</td>
<td>Software Testing and Quality Assurance</td>
<td>(CSE 4214/6214 with a grade of C or better).</td>
<td>3 hours</td>
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<tr>
<td>CSE 8233</td>
<td>Software Engineering Project Management</td>
<td>(CSE 4214/6214).</td>
<td>3 hours</td>
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<tr>
<td>CSE 8243</td>
<td>Software Specification</td>
<td>(CSE 4214/6214).</td>
<td>3 hours</td>
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<tr>
<td>CSE 8253</td>
<td>Software Design</td>
<td>(CSE 4214/6214).</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 8263</td>
<td>Software Verification and Validation</td>
<td>(CSE 3813 and either CSE4214/6214 or CSE 8253).</td>
<td>3 hours</td>
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<tr>
<td>CSE 8273</td>
<td>Software Requirements Engineering</td>
<td>(CSE 4214/6214 with a C or better).</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 8283</td>
<td>Empirical Software Engineering</td>
<td>(CSE 4214/6214).</td>
<td>3 hours</td>
</tr>
</tbody>
</table>
High Performance Computing:
CSE 6153 Data Communications and Computer Networks (CSE 1384 or ECE 3732 and ECE 3724 all with a grade of C or better). 3 hours
CSE 6163 Designing Parallel Algorithms (CSE 3324 or CSE 4733/6733 with a grade of C or better). 3 hours
CSE 6743 Operating Systems II (CSE 4733/6733 with a grade of C or better). 3 hours
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 8843 Complexity of Sequential and Parallel Algorithms (CSE 4833/6833). 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

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 Theory of Computation (CSE 3813). 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

Computer Security:
CSE 6243 Information and Computer Security (CSE 4733/6733 with a grade of C or better). 3 hours
CSE 6273 Introduction to Computer Forensics (Senior standing in CSE/SE/CPE/MIS/CI). 3 hours
CSE 6383 Cryptography and Network Security (CSE 4153/6153). 3 hours

The following courses will not generally apply toward a major in computer science:
CSE 6613 Bio-computing. 3 hours
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
CSE 6753 Foundations in Computation (CSE 1213 or CSE 1233 or CSE 1273 or CSE 1284 with a grade of C or better, or permission of instructor). [No credit for students in Computer Science, Computer Engineering, or Software Engineering programs]. 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

Electrical and Computer Engineering
Dr. Nicolas H. Younan, Department Head
Dr. James E. Fowler, Graduate Coordinator
216 Simrall Building
Box 9571
Mississippi State, MS 39762
Telephone: 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. Both the M.S. and Ph.D. are available via BCoE Learning (online). 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 High Performance Computing Collaboratory (HPCC), the Geosystems Research (GRI), the Center for Advanced Vehicular Systems (CAVS), the MSU High Voltage Laboratory, the Emerging Materials Research Laboratory, and the Microsystems Prototyping Laboratory.

Admission Criteria
In addition to meeting the requirements set forth by the Graduate School 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 PBT TOEFL score (213 CBT or 79 iBT) or 6.5 IELTS 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.

In addition to the requirements set forth by the Department for admission to the graduate program, highly qualified undergraduate students may be directly admitted to the Ph.D. program. Such direct admission requires a minimum undergraduate equivalent GPA of 3.50/4.00 on the last 60 credit hours of undergraduate courses, or a first class with distinction degree classification for students whose degrees are from institutions where no GPA is reported, and a satisfactory performance on the GRE for students with a degree from a program that is not EAC/ABET-accredited.

ECE M.S. students who wish to transfer to the Ph.D. program prior to completing the requirements for the Master of Science degree must submit a new application provided that they have a minimum graduate GPA of 3.80 on the first 15 credit hours of graduate courses taken at MSU.

Provisional Admission—Provisional admission is not typically available to applicants to the Department of Electrical and Computer Engineering.

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 graduate advisory committee. Minimum requirements are 30 credit hours for the thesis option (24 credit hours of coursework and 6 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 non-thesis option, CPE majors must have at least 12 credit hours of CSE courses and 12 credit hours of ECE courses; for the thesis option, at least 9 credit hours of CSE courses and 9 credit hours of ECE courses are required. Note that CSE 6113 may not be used for a CSE credit.

For the Ph.D. degree, a student is required to complete at least 48 credit hours past the M.S., typically 24 credit hours of coursework and 24 credit hours of dissertation research.

For direct-admit Ph.D. students, at least 66 credit hours beyond the B.S. are required (42 credit hours of coursework and 24 credit hours of dissertation research).

For the M.S./Ph.D. degree, half of the coursework must be at the 8xxx level. Students can also take up to 6 hours in Directed Individual Study (ECE 7000), and a minor area outside the department is optional (9 credit hours at the M.S. level or 12 credit hours at the Ph.D. level with a minimum of 3 credit hours at the 8xxx level).

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 9 credit hours of coursework; Directed Individual Study courses are excluded.

A student will be dismissed from the graduate program if
• in any semester subsequent to being on probation, 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 twice the oral examination (M.S. level) or the preliminary examination (Ph.D. level);
• a student does not pass the Ph.D. qualifying exam in four attempts, within the first four semesters;
• a student receives an unsatisfactory evaluation of a thesis or dissertation;
• 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/ coordinator 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 coursework unless the transcript shows equivalent credit. Additional courses may be required.

- ECE 3714 Digital Devices and Laboratory
- ECE 3724 Microprocessors and Laboratory or ECE 4743 Digital System Design

**Computer Engineering**—Graduate students in Computer Engineering will be required to complete remedial courses from ECE and CSE unless the transcript shows equivalent credit. These include the following courses:

- CSE 1384 Intermediate Computer Programming
- CSE 2383 Data Structures and Analysis of Algorithms
- CSE 6833 Algorithms
- CSE 6733 Operating Systems
- ECE 3714 Digital Devices and Laboratory
- ECE 3724 Microprocessors I and Laboratory
- ECE 3413 Introduction to Electronic Circuits
- ECE 3424 Intermediate Electronic Circuits
- ECE 3443 Signals and Systems
- ECE 4713 Computer Architecture
- ECE 4743 Digital System Design

The remedial requirement can be satisfied and graduate credit can be obtained for courses:

- ECE 6713 Computer Architecture
- ECE 6743 Digital System Design

**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 orally defend his or her thesis. The thesis document (finished, not a draft) must be read and approved by the major professor and presented to the remaining committee members one week before the scheduled oral defense.

**Ph.D.**—A doctoral student is required to orally defend his or her dissertation. The dissertation document (finished, not a draft) must be read and approved by the major professor and presented to the remaining committee readers two weeks before the scheduled oral defense.

**Examinations**

All students enrolled in the doctoral program in Electrical Engineering are required to pass a written qualifying examination. The purpose of this qualifying examination is to assess the student’s broad background in ECE and ensure their capabilities for conducting doctoral work. This exam covers undergraduate ECE coursework. Students who are classified as doctoral students must pass the qualifying examination within the first two years of full-time doctoral enrollment. Students enrolled in the doctoral program part-time have two years to pass the qualifying examination after completing 9 credit hours of coursework.

Additionally, doctoral students are required to pass the oral preliminary examination (dissertation-proposal defense). The oral preliminary examination may be taken only after the student has passed the qualifying examination; in addition, the student must have completed or be within 6 hours of completing the coursework. The oral preliminary exam consists of a presentation of current research activities toward the student’s dissertation.

**Graduate Courses**—Course prerequisites are noted in parentheses.

**Electrical and Computer Engineering:**

- ECE 6193 Automotive Engineering, 3 hours
- ECE 6243 Physical Electronics (ECE 3424), 3 hours
- ECE 6263 Principles of VLSI Design (Grade of C or better in both ECE 3724 and ECE 3424), 3 hours
- ECE 6273 Microelectronics Device Design (ECE 3424), 3 hours
- ECE 6283 Microelectronics Process Design (ECE 3424), 3 hours
- ECE 6313 Antennas (ECE 3323 or consent of instructor), 3 hours
- ECE 6323 Electromagnetic Compatibility (ECE 3323 or consent of instructor), 3 hours
- ECE 6333 RF and Microwave Engineering (ECE 3324), 3 hours
- ECE 6411-6441 Remote Sensing Seminar (Junior standing), 1 hour
- ECE 6413 Digital Signal Processing (ECE 3443), 3 hours
- ECE 6423 Introduction to Remote Sensing Technologies (senior or graduate standing or consent of instructor), 3 hours
- ECE 6473 Introduction to Computer Arithmetic (ECE 3724/CS 3124 and credit or registration in ECE 4713/6713 CS 4113/6113), 3 hours
- ECE 6613 Power Transmission Systems (credit or registration in ECE 3414), 3 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 6633</td>
<td>Power Distribution Systems (credit or registration in ECE 3414)</td>
<td>3 hours</td>
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<tr>
<td>ECE 6643</td>
<td>Power Systems Relaying and Control (ECE 4613/6613)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 6653</td>
<td>Introduction to Power Electronics (Grade of C or better in both ECE 3414 and ECE 3424 or equivalent)</td>
<td>3 hours</td>
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<tr>
<td>ECE 6663</td>
<td>Insulation Coordination in Electric Power Systems (credit or registration in ECE 4613/6613)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 6673</td>
<td>Fundamentals of High Voltage Engineering (Grade of C or better in ECE 3414)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 6713</td>
<td>Computer Architecture (ECE 3724/CS 3124)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 6723</td>
<td>Microprocessors II (ECE 3724/CS 3124)</td>
<td>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>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 6743</td>
<td>Digital Systems Design (Grade of C or better in ECE 3724; credit or registration in ECE 3424)</td>
<td>3 hours</td>
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<tr>
<td>ECE 6753</td>
<td>Introduction to Robotics (Grade of C or better in each of ECE 3724, MA 3113, and MA 3253)</td>
<td>3 hours</td>
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<tr>
<td>ECE 6763</td>
<td>Information and Computer Security (Grade of C or better in CSE 4733/6733) [Same as ECE 4243/6243]</td>
<td>3 hours</td>
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<td>ECE 6813</td>
<td>Communications Theory (Grade of C or better in ECE 3443)</td>
<td>3 hours</td>
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<tr>
<td>ECE 6843</td>
<td>Error Correcting Digital Codes (senior or graduate standing)</td>
<td>3 hours</td>
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<tr>
<td>ECE 6853</td>
<td>Electro-Optics (Grade of C or better in ECE 3424 and consent of instructor)</td>
<td>3 hours</td>
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<td>ECE 6913</td>
<td>Feedback Control Systems I (Grade of C or better in ECE 3443)</td>
<td>3 hours</td>
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<tr>
<td>ECE 6923</td>
<td>Feedback Control Systems II (Grade of C or better in ECE 3443)</td>
<td>3 hours</td>
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<tr>
<td>ECE 6933</td>
<td>State Space Design and Instrumentation (Grade of C or better in ECE 4443)</td>
<td>3 hours</td>
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<tr>
<td>ECE 6990</td>
<td>Special Topics in Electrical Engineering</td>
<td>1-9 hours</td>
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<tr>
<td>ECE 7000</td>
<td>Directed Individual Study</td>
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<tr>
<td>ECE 8000</td>
<td>Thesis Research/Thesis</td>
<td>Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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<td>ECE 8023</td>
<td>Switching Theory II (ECE 8013)</td>
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<td>ECE 8073</td>
<td>Parallel Computing Architectures II (ECE 8063 and/or consent of instructor)</td>
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<tr>
<td>ECE 8113</td>
<td>Linear Systems Analysis I</td>
<td>3 hours</td>
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<td>ECE 8223</td>
<td>Analog Integrated Circuit Design (ECE 3434)</td>
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<td>ECE 8253</td>
<td>Solid State Electronics III (ECE 4263/6263)</td>
<td>3 hours</td>
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<td>ECE 8273</td>
<td>VLSI Systems I (ECE 4263/6263)</td>
<td>3 hours</td>
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<td>ECE 8313</td>
<td>Electromagnetic Theory (ECE 3324)</td>
<td>3 hours</td>
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<td>ECE 8401</td>
<td>Current Topics in Remote Sensing (credit or registration in ECE 4623/6423 or PSS 4473/6473 or ABE 4483/6483)</td>
<td>1 hour</td>
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<tr>
<td>ECE 8413</td>
<td>Digital Spectral Analysis (ECE 3443 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 8423</td>
<td>Adaptive Signal Processing (ECE 3443 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 8433</td>
<td>Statistical Signal Processing (MA 4533/6533 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ECE 8443</td>
<td>Pattern Recognition (MA 4533/6533 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ECE 8453</td>
<td>Introduction to Wavelets (ECE 3443 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ECE 8463</td>
<td>Fundamentals of Speech Recognition (ECE 4413/6413 or consent of instructor)</td>
<td>3 hours</td>
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<td>ECE 8473</td>
<td>Digital Image Processing (CS 1233, CS 1314 or equivalent, ECE 4413/6413 or equivalent, or consent of Instructor)</td>
<td>3 hours</td>
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<td>ECE 8483</td>
<td>Image and Video Coding (ECE 8473 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ECE 8503</td>
<td>Spacecraft Electrical Systems (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 8523</td>
<td>Wafer Scale Integration (Graduate standing and consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ECE 8613</td>
<td>Advanced Power Systems Analysis (ECE 4613/6613 or equivalent)</td>
<td>3 hours</td>
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<tr>
<td>ECE 8643</td>
<td>Power System Planning (Consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ECE 8653</td>
<td>Advanced Energy Conversion (ECE 3414)</td>
<td>3 hours</td>
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<td>ECE 8663</td>
<td>High Voltage Engineering (ECE 3313)</td>
<td>3 hours</td>
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<tr>
<td>ECE 8673</td>
<td>Computer Methods in Power System Analysis (ECE 4613/6613 or equivalent)</td>
<td>3 hours</td>
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<tr>
<td>ECE 8693</td>
<td>Power Systems Seminar (Consent of instructor)</td>
<td>3 hours</td>
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<td>ECE 8713</td>
<td>Switching Theory I (ECE 3434, ECE 4713/6713 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ECE 8723</td>
<td>Introduction to Computer Arithmetic (ECE 4263/6263)</td>
<td>3 hours</td>
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<td>ECE 8733</td>
<td>Parallel Computing Architectures I (ECE 4713/6713/CS 4113/6113)</td>
<td>3 hours</td>
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<tr>
<td>ECE 8743</td>
<td>Advanced Robotics (Grade of C or better in ECE 4753/6753)</td>
<td>3 hours</td>
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<tr>
<td>ECE 8803</td>
<td>Random Signals and Systems (IE 4613 or MA 4523 or equivalent)</td>
<td>3 hours</td>
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<tr>
<td>ECE 8813</td>
<td>Information Theory (ECE 8803 or permission of instructor)</td>
<td>3 hours</td>
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</tbody>
</table>
Master of Engineering
Dr. Lori Bruce, Associate Dean for Research and Graduate Studies and Graduate Coordinator, M ENG
Ms. Rita A. Burrell, Manager for Graduate and Distance Education
250 McCain
Box 9544
Mississippi State, MS 39762
Telephone: 662-325-5923
Fax: 662-325-8573
E-mail: rburrell@bagley.msstate.edu
Website: http://www.bagley.msstate.edu/programs/distanceeducation/index.php

Graduate study is offered through the Office of the Dean, James Worth Bagley College of Engineering, leading to the degree of Master of Engineering (M Eng). The M Eng, designed primarily for the professional engineer, is a non-thesis, interdisciplinary program which is delivered via distance learning and combines graduate-level courses from different engineering programs into an advanced-level educational experience. All courses are delivered in a flexible, web-based format. This program is restricted to off-campus students only.

The M Eng upholds the same rigorous academic requirements as all engineering programs offered on the MSU campus and is a unique program in the state of Mississippi. Students enrolled in courses in this program may use credit hours to satisfy continuing education hours for the Mississippi Engineering Board of Registration. Licensed professional engineers from other states also may use these courses to satisfy licensing requirements.

All students admitted to the M Eng should become familiar with all academic requirements and processes associated with graduate studies in the Bagley College of Engineering and Mississippi State University as noted in the MSU Bulletin of the Graduate School in the General Requirements of the Graduate School and General Master’s Degree Requirements sections. The Bulletin is available at http://www.grad.msstate.edu/pdf/bulletin.pdf. For specific information about the program, contact Rita Burrell, Manager for Graduate and Distance Education, James Worth Bagley College of Engineering.

Admission Criteria
In addition to meeting the requirements set forth by the Graduate School as noted in the admission section of this publication, the basic requirements for admission to the M Eng include a 3.00/4.00 GPA on a
B.S. degree in an engineering discipline area or remedial engineering coursework. Students should refer to the General Requirements for Admission section in the Graduate School Bulletin regarding University admission policy. A satisfactory performance is required on the GRE for students with a degree from a program that is not EAC/ABET-accredited. Consideration may be given to students who hold non-engineering undergraduate degrees on a case-by-case basis. Admission decisions are made by the Associate Dean for Research and Graduate Studies.

As part of the standard engineering undergraduate program, a student will have had mathematics through ordinary differential equations, one year of calculus-based physics, a general chemistry class, a class in electric circuits, and several courses in engineering mechanics. The commonality in fundamental coursework in ABET-accredited engineering programs generally allows for the offering of graduate-level engineering courses with a prerequisite of “graduate standing.” A student with an unusual amount of practical work experience in an area will have “consent of Instructor” as a standard prerequisite. If specific, significant prerequisites are required for any course, these will be clearly identified when the course is posted.

Provisional Admission—A student who does not meet the 3.00 GPA requirement for the M Eng may be admitted to the program on a provisional basis. If provisional admission is granted, the student must achieve a GPA of 3.00 on the first 9 credit hours of graduate courses. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. Upon meeting the provisional admission requirements, the student receives regular admission status. If the student does not achieve a 3.00 GPA, the student may be terminated from the M Eng program. If a probationary period is granted, the student must achieve a cumulative 3.00 GPA within the next 9 hours of approved coursework.

Unclassified Admission—In certain circumstances, a student may be granted admission in unclassified status. Only 9 hours of graduate coursework received as an unclassified student may be transferred to the M Eng with the approval of the Associate Dean for Research and Graduate Studies. Hours completed in unclassified status may not be used to satisfy provisional admission requirements.

Program of Study
The curriculum for the M Eng is flexible with a minimum requirement of 33 hours of graduate coursework. Coursework is selected from courses offered across the Bagley College of Engineering. There are no core requirements associated with the program. Up to 6 hours may be taken from outside the engineering field (normally business, science, mathematics, or statistics; upon petition to the Associate Dean for Research and Graduate Studies, other areas may be considered). The program of study must include at least 15 hours of coursework at the 8000 level.

Graduate Committee
All graduate students are required to have a graduate committee. A graduate committee for a student in the M Eng is comprised of the Associate Dean for Research and Graduate Studies as major professor and two committee members who hold graduate faculty status in the Bagley College of Engineering. A student will select the two committee members in consultation with the Associate Dean.

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 academic probation. The student must raise the cumulative GPA to 3.00 on the next 9 hours of approved coursework in order to return to satisfactory academic performance. A student will be dismissed from the M Eng if:
- In any subsequent semester the student’s cumulative GPA again falls below 3.00
- A student makes a grade of D, F, or more than two Cs.

In the case of academic dismissal, the student may appeal his/her academic status according to Appeal of Academic Status as outlined in the MSU Bulletin of the Graduate School.

Completion Requirements
A student pursuing the M Eng is required to pass a written comprehensive examination related to all graduate courses taken toward the degree. In order to take the examination, the student must be enrolled at MSU during the semester in which the examination is administered, must have a cumulative 3.00 GPA in all courses taken after admission to the program, and must be in the terminal semester of coursework or within 6 hours of completing coursework.

A student completing the degree must apply to take the comprehensive examination through the office of the Manager for Graduate and Distance Education, James Worth Bagley College of Engineering. The examination will be administered by the Associate Dean for Research and Graduate Studies. The examination will be open-book and open-notes and
will be administered using testing tools available in WebCT. Each student is required to secure a proctor to monitor his/her comprehensive examination; the proctor must be approved by the associate dean at least two weeks prior to the examination. The student’s graduate committee will grade the examination with either a Pass or Fail as the final assessment. A student who fails the examination cannot apply to retake it until four months from the date of the original test. Two failures will result in the student’s being dropped from the M Eng program.

**Graduate Courses**—Any graduate courses offered through the Bagley College of Engineering via distance may be applied toward the M Eng. With the permission of the Associate Dean for Research and Graduate Studies, a student may take up to 6 hours of coursework outside the engineering discipline (normally mathematics, science, business).

**Student Support Services**
A student enrolled in the M Eng can access the MSU University Library System via the web to utilize resources for class assignments. Using his/her MSU ID number, a student can access Library databases online and order articles electronically. A link on the M Eng Website directs the student to the services provided by the Library: Library Instruction; Research Services; Borrow/Order Materials; Workshops; Instructional Media Center, etc. The student may contact Library personnel by e-mail or telephone; all contact information is provided on the Library Website. A page on this Website is dedicated to Distance Education; information includes Requesting Help; Getting Connected; Getting Library Materials; and Doing Research.

**Engineering Mechanics**
*Dr. Lori Bruce, Associate Dean for Research and Graduate Studies*
330 Walker Engineering Building
Box A
Mississippi State, MS 39762
Telephone: 662-325-3623
E-mail: grad-coord@ae.msstate.edu

Faculty in Aerospace Engineering, Civil and Environmental Engineering, and Mechanical Engineering offer courses in Engineering Mechanics, one of the basic engineering sciences. The Aerospace Engineering Department manages these 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM 6123</td>
<td>An Introduction to the Finite Element Method</td>
<td>3 hours</td>
</tr>
<tr>
<td>EM 6133</td>
<td>Mechanics of Composite Materials (EM 3213, MA 3253)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EM 6143</td>
<td>Engineering Design Optimization (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EM 6213</td>
<td>Advanced Mechanics of Materials (EM 3213)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EM 6990</td>
<td>Special Topics in Engineering Mechanics.</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>EM 7000</td>
<td>Directed Individual Study.</td>
<td>1-6 hours</td>
</tr>
<tr>
<td>EM 8113</td>
<td>Theory of Continuous Media (MA 3353 or consent of the instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>EM 8203</td>
<td>Applied Elasticity.</td>
<td>3 hours</td>
</tr>
<tr>
<td>EM 8213</td>
<td>Fracture Mechanics (EM 3213 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>EM 8223</td>
<td>Elastic Stability.</td>
<td>3 hours</td>
</tr>
<tr>
<td>EM 8313</td>
<td>Advanced Dynamics (EM 2433, MA 3253)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EM 8323</td>
<td>Advanced Vibrations (EM 3413)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EM 8990</td>
<td>Special Topics in Engineering Mechanics.</td>
<td>1-9 hours</td>
</tr>
</tbody>
</table>

**General Engineering**
*Dr. Lori Bruce, Associate Dean for Research and Graduate Studies*
250 McCain Engineering Building
662-325-2270
E-mail: rburrell@bagley.msstate.edu

The following courses are provided for proper scheduling of dissertation research/dissertation required in the program of Doctor of Philosophy in engineering (with composite major) candidates. Ph.D. programs in the College of Engineering do not require a foreign language or a special research skill.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 6990</td>
<td>Special Topics in General Engineering.</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>GE 8990</td>
<td>Special Topics in General Engineering.</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>GE 9000</td>
<td>Dissertation Research/Dissertation.</td>
<td>20 hours</td>
</tr>
</tbody>
</table>

**Graduate Certificates**
The James Worth Bagley College of Engineering offers graduate certificates in the following areas: Automotive; Computational Biology; Geospatial and Remote Sensing; Information Assurance; Manufacturing; Materials; Six Sigma; and Software Engineering. Certificates are available to traditional and non-traditional students who meet all admission requirements; students must be admitted to Mississippi State University in order to pursue certificates. Prerequisite courses are required in order to qualify for the certificate programs (normally satisfied at the undergraduate level). Some engineering certificate programs may be available to non-engineering graduate students. Please refer to
the specific certificate of interest for prerequisite requirements and certificates available to non-engineering graduate students.

All certificates require that a student take a minimum of 15 hours of academic credit (five courses) in an approved certificate area and may be earned by completing selected courses from a list of qualifying courses designated by a representative faculty member or committee. Hours earned in acquiring a certificate may be counted toward completion of an advanced engineering degree. A graduate student must achieve a minimum cumulative GPA of 3.00 on courses taken to acquire a certificate. Upon satisfactory completion of the required coursework, the student will become a candidate for certification. The MSU transcript will indicate successful completion of the certificate program. Contact information is provided below for each certificate program.

Automotive Engineering
The Automotive Engineering Certificate enhances the education of a student in topical subject matter related specifically to automotive engineering. This certificate was developed in support of the automotive manufacturing companies in the State of Mississippi to provide students an opportunity to focus on engineering knowledge and issues related to the design of vehicle systems and their production. The program is multi-disciplinary, allowing students from all areas of engineering to participate. Coursework will be selected from Aerospace Engineering, Chemical Engineering, Civil and Environmental Engineering, Electrical and Computer Engineering, Computer Science Engineering, Engineering Mechanics, Industrial and Systems Engineering, and Mechanical Engineering. All students are required to participate in a vehicle design/construction experience which must be approved by the director of the Automotive Engineering Certificate and will be designated as a 3-hour Directed Individual Study (4000 for undergraduate students/7000 for graduate students) course. Membership in the student section (or appropriate level) of the Society of Automotive Engineers is strongly encouraged. An Automotive Engineering Committee comprised of faculty members from various engineering departments who have an interest in the automotive industry will administer the certificate in conjunction with the Office of the Dean of Engineering. For additional information, contact Dr. Mohamad Qatu at 662-325-1535 or ap335@msstate.edu.

Geospatial and Remote Sensing
Geospatial technologies include remote sensing, geographic information systems (GIS), and the more familiar global positioning systems (GPS). MSU is highly respected on the national level because research in these areas has results in various real-world applications for agriculture and natural resource management, local/state/federal agency applications, homeland security, coastal zone management, and enhancing transportation systems and designs. Students who engage in the geospatial and remote sensing program will gain experience in developing and operating imaging and GIS systems for surveillance, security, agriculture and urban mapping, as well as for environmental and wildlife land management purposes. Engineering students who complete the certificate are heavily recruited to work in the state and federal government (laboratories, operational agencies), agriculture, forestry, transportation, power and communication, and environmental. The certificate is awarded by the Bagley College of Engineering. For additional information, contact Rita Burrell at 662-325-5923 or rburrell@bagley.msstate.edu.

Information Assurance
The Information Assurance Certificate provides educational coursework in the areas of information assurance and data security. MSU is certified as a Center of Academic Excellence in Information Assurance (IA) by the National Security Agency; the IA program of instruction has been certified by the Committee on National Security Standards (CNSS) against the National Training Standard for Information Systems Security (INFOSEC) Professionals—NSTISSI No. 4011 and the National Training Standard for Information Systems Security Officers (ISSO)—NSTISSI No. 4014. The curriculum for the certificate conforms to the Federal
training standards in this area. A faculty member from the Department of Computer Science and Engineering’s Center for Computer Security Research (CCSR) will be appointed annually to administer the program. The certificate is jointly administered through the CCSR, the Dean of Engineering, and the College of Agriculture and Life Sciences. Additional information may be found at http://security.cse.msstate.edu/lacertificateappl.doc. For more information, contact Dr. David Dampier at 662-325-8923 or dampier@cse.msstate.edu.

Manufacturing
In addition to coursework, the Manufacturing Certificate requires actual work experience in a manufacturing environment equivalent to a cooperative work semester or a summer internship. The certificate is a means for students to gain an enhanced manufacturing related educational experience. Verification of employment by the employer, including a description of work duties may be required of the candidate prior to certification. The Manufacturing Certificate is jointly administered by the Department of Industrial and Systems Engineering and the Dean of Engineering. For additional information, contact Mr. Larry Dalton at 662-325-0570 or dalton@ie.msstate.edu.

Materials
The Materials Certificate recognizes the completion of an organized plan of study in the interdisciplinary materials related areas. Courses for the certificate cover topics on advanced composites, biomaterials, materials processing, polymers, and electrical materials. Through the combination of research and engineering, students may choose to specialize their certificate in any two additional areas of study that include: aerospace, biomedical, chemistry, computer, environmental, forest products, mechanical, and physics. The Materials Engineering Working Group (MWG) will serve as the advisory committee to oversee and recommend courses in the certificate group. The Materials Certificate is administered by the Dean of Engineering. Additional information, including course selection, may be accessed at http://www.bagley.msstate.edu/research/workinggroups/materials/index.php. For specific information, contact Dr. Judith Schneider, Materials Engineering Coordinator, at 662-325-9154 or Schneider@me.msstate.edu.

Six Sigma
The Six Sigma Certificate offers students formal training in order to utilize various problem solving and process improvement methods to facilitate improved performance by identifying and eliminating “non-value added” activity or waste in organizational functions. The program is a rigorous application of an extensive set of skills and methods, both statistical and non-statistical, utilized to reduce the amount of output variation in any given process. Completion of this certificate lends to salary and career enhancement, proven credibility, and an improved skill set. The certificate is jointly administered by the Department of Industrial Engineering and the Dean of the Bagley College of Engineering. For additional information, contact Mr. Larry Dalton at 662-325-0570 or Dalton@ise.msstate.edu or access http://www.ie.msstate.edu/SixSigma/sixsigma.htm.

Software Engineering
The Software Engineering Certificate focuses on the application of science and mathematics in a disciplined process in order to address the problem of making computers useful via software. The program offers a formalized program of study focused on the software engineering skills necessary to succeed in the dynamic field of software development. Laboratories facilities within the Center for Computer Security Research are equipped to allow students to explore cyber crime and research methods to develop information assurance software security programs that are difficult to filtrate. The certificate targets those professionals with an interest in learning about software engineering but without the intent to pursue a graduate degree in the field. The program is also available to students in other disciplines. Additional information may be accessed at http://www.cse.msstate.edu/academics/gradstud/ce rtificate.php or contact Dr. David Dampier at 662-325-8923 or dampier@cse.msstate.edu.

Industrial and Systems Engineering
Dr. John M. Usher, Interim Department Head
and Graduate Coordinator
260 McCain Building
Box 9542
Mississippi State, MS 39762
Telephone: 662-325-3865
E-mail: grad@ise.msstate.edu

Graduate study is offered in the Department of Industrial and Systems Engineering leading to a Master of Science degree in Industrial Engineering or a Ph.D. in Industrial and Systems Engineering. Both the M.S. and Ph.D. are available via the BCoE Distance Learning online program. Major areas of study are: ergonomics/human factors, industrial systems, and management systems engineering. Research and teaching assistantships are available on a competitive basis.

Admission Criteria
An entering M.S. student must have a grade point average of 3.00 out of 4.00 for the junior and senior
years. Typically, an entering Ph.D. student with an M.S. degree should have a 3.50 out of 4.00 grade point average on the M.S. work, while a Ph.D. student entering with only a B.S. degree is expected to have a 3.50 out of 4.00 on the last two years of the undergraduate program. A student with a lower GPA may still be eligible for admission based on outstanding qualifications in other areas. An entering 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. International students must have a minimum TOEFL score of 550 PBT (213 CBT or 80 iBT) or IELTS score of 6.5.

**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 9 hours of graduate courses at Mississippi State University after admission to the program. Courses with a S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 GPA is not attained, the student will be dismissed from the graduate program.

**Program of Study/Completion Requirements**

The thesis-option Master of Science in Industrial Engineering requires at least 24 credit hours of coursework above the baccalaureate degree with at least one-half of the coursework at the 8000 level or above and 6 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 coursework above the baccalaureate degree as well as a written and oral comprehensive final exam on the coursework. At least 15 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 48 hours of coursework beyond the B.S. level including at least 30 hours of Industrial Engineering courses and at least 6 hours in a discipline other than Industrial Engineering. A doctoral student must complete IE 6623 and IE 6773 or equivalent as part of the graduate program. Twenty hours of research, a preliminary examination, a dissertation, and an oral examination in defense of the dissertation are required.

Additional requirements for both the M.S. and Ph.D. programs are:

1. No ISE graduate student may show ST 8114 or IE 6613 on his/her graduate program
2. No program can contain more than 9 hours of courses that are required in the bachelor’s degree curriculum
3. No program can contain more than 6 hours of Directed Individual Study (IE 7000).

**Academic Performance**

In addition to the criteria defined in the current Bulletin of the Graduate School, unsatisfactory performance in the graduate program in Industrial and Systems Engineering is defined as any of the following: failure to maintain a 3.00 average in the M.S. program of 3.30 in the Ph.D. program, failure of the qualifying exam (Ph.D. students only), 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 the required component of the program of study. Any one of these will constitute the basis for review for possible dismissal. If the students drops six or more quality points below the required average (3.00 for M.S. or 3.30 for Ph.D.), 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.

While on probation, the student is not eligible to receive an assistantship and is required to raise his/her cumulative GPA to 3.00 for M.S. or 3.30 for Ph.D. by the end of the following semester of enrollment. During that semester, the student must enroll in 9 credit hours of coursework; Directed Individual Study courses are excluded.

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 graduate coordinator. The graduate coordinator will review the appeal with the appropriate departmental committee and render a recommendation.
- If the appeal at the departmental level is unsuccessful, a student may then appeal to the Associate Dean for Research and Graduate Studies in the college.
- If the appeal at the college level is unsuccessful, the student may then appeal to the Office of the Provost.
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 6193  Automotive Engineering. 3 hours
IE 6333  Production Control Systems I (IE 4613/6613). 3 hours
IE 6353  Materials Handling. 3 hours
IE 6373  Automation. 3 hours
IE 6513  Engineering Administration (Junior or graduate standing in engineering). 3 hours
IE 6533  Project Management (IE 4613/ 6613). 3 hours
IE 6543  Logistics Engineering. (IE 4613 and senior or graduate standing). Corequisite IE 4733 or MA 4733. 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). 3 hours
IE 6713  Operations Research I (IE 4613/6613). 3 hours
IE 6733  Linear Programming I (CSE 1213 and MA 3113). 3 hours
IE 6743  Engineering Design Optimization. 3 hours
IE 6753  Systems Engineering and Analysis (Grade of C or better in IE 3913 and grade of C or better in IE 4613/6613). 3 hours
IE 6773  Systems Simulation I (Grade of C or better in IE 4934 or equivalent programming course and grade of C or better in IE 4613/6613). 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  Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
IE 8143  Applied Ergonomics Methods. 3 hours
IE 8153  Cognitive Engineering. 3 hours
IE 8163  Macroergonomics. 3 hours
IE 8333  Production Control Systems II (IE 4333/6333). 3 hours
IE 8353  Manufacturing Systems Modeling. (IE 4733 and IE 4773). 3 hours
IE 8583  Enterprise Systems Engineering (Consent of instructor). 3 hours
IE 8723  Operations Research II (IE 4713/6713). 3 hours
IE 8733  Decision Theory (IE 4613/6613). 3 hours
IE 8743  Nonlinear Programming I (IE 4733/ 6733 or MA 4733/6733). 3 hours
IE 8753  Network Flows and Dynamic Programming (MA 2733 and IE 4613). 3 hours
IE 8773  Systems Simulation II (IE 4773/ 6773). 3 hours
IE 8793  Heuristics in Optimization. 3 hours
IE 8913  Engineering Economy II (IE 3913 and IE 4613/6613). 3 hours
IE 8990  Special Topics in Industrial Engineering. 1-9 hours
IE 9000  Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

Mechanical Engineering
Dr. Steve Daniewicz, Department Head
Dr. David Marcum, Graduate Coordinator
210 Carpenter Engineering Building
Box ME
Mississippi State, MS 39762
Telephone: 662-325-3260
Fax: 662-325-7223
E-mail: graduate@me.msstate.edu
Website: http://www.me.msstate.edu

The Mechanical Engineering program 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, PO Drawer ME, Mississippi State University, MS 39762.

Admission Criteria
A minimum GPA of 2.75 is required for admission. 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. An international student must have a minimum TOEFL score of 550 PBT (213 CBT or 79 iBT) or IELTS score of 6.5.

Provisional Admission—A provisional student must receive a 3.00 GPA on the first 9 hours of graduate level courses on his or her program of study taken at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement) 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.

Program of Study/Completion Requirements
Both thesis and non-thesis M.S. options are available. For the thesis option, 24 hours of coursework, with at least one-half at the 8000 level or above, are required along with 6 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 24 months of graduate coursework. An oral preliminary examination is required upon completion of coursework and determination of dissertation topic. A final oral dissertation defense is required.

Academic Performance
Unacceptable academic performance includes: failure to maintain an overall GPA of at least 3.00 on all work after admission to the program; 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
- deficiency recognition by student's major advisor or the graduate program coordinator;
- case consideration and findings by the faculty;
- concurrence by department head, and
- recommendation of dismissal to the Dean of Engineering.

Appeals Process
A student who is dismissed on the basis of academic performance may appeal the decision. To appeal, the student must submit a letter of appeal to the graduate coordinator with a detailed explanation of the circumstances leading to the dismissal and should explain any extenuating circumstances leading to failure to maintain satisfactory academic progress. The graduate coordinator will review the provided documentation and reach a decision on whether to uphold or overturn the dismissal. If the appeal at the program level is unsuccessful, the 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.

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 6193 Automotive Engineering. 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 3313). 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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ME 6833</td>
<td>Intermediate Fluid Mechanics (EM 3313).</td>
<td>3 hours</td>
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<tr>
<td>ME 6990</td>
<td>Special Topics in Mechanical Engineering.</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>ME 7000</td>
<td>Directed Individual Study.</td>
<td>1-6 hours</td>
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<td>ME 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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<tr>
<td>ME 8011</td>
<td>Graduate Seminar. 1 hour</td>
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<td>ME 8213</td>
<td>Engineering Analysis I. 3 hours</td>
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<tr>
<td>ME 8223</td>
<td>Inelasticity (EM 8113 and EM 8203). 3 hours</td>
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<td>ME 8243</td>
<td>Finite Elements in Mechanical Engineering (ME 4403 and EM 3213). 3 hours</td>
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<tr>
<td>ME 8253</td>
<td>Fatigue in Engineering Design. 3 hours</td>
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<tr>
<td>ME 8313</td>
<td>Conductive Heat Transfer. 3 hours</td>
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<tr>
<td>ME 8323</td>
<td>Radiative Heat Transfer. 3 hours</td>
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<tr>
<td>ME 8333</td>
<td>Convective Heat Transfer. 3 hours</td>
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<td>ME 8343</td>
<td>Two-Phase Flow and Heat Transfer (ME 3313 and EM 3313). 3 hours</td>
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<tr>
<td>ME 8353</td>
<td>Advanced Energy Conversion (Consent of instructor). 3 hours</td>
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<tr>
<td>ME 8363</td>
<td>Computational Heat Transfer (Consent of instructor). 3 hours</td>
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<tr>
<td>ME 8403</td>
<td>Principles of Computer-Aided Design and Manufacturing. 3 hours</td>
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<tr>
<td>ME 8513</td>
<td>Classical Thermodynamics. 3 hours</td>
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<td>ME 8613</td>
<td>Dynamical Systems. 3 hours</td>
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<tr>
<td>ME 8713</td>
<td>Mechanics and Control of Manufacturing System. 3 hours</td>
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<tr>
<td>ME 8733</td>
<td>Experimental Procedures. 3 hours</td>
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<tr>
<td>ME 8743</td>
<td>Stress Analysis (EM 3213). 3 hours</td>
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<tr>
<td>ME 8813</td>
<td>Viscous Flow I. 3 hours</td>
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<tr>
<td>ME 8823</td>
<td>Viscous Flow II (ME 8813 or equivalent). 3 hours</td>
<td></td>
</tr>
<tr>
<td>ME 8843</td>
<td>Unstructured Grid Technology (ASE 8413). 3 hours</td>
<td></td>
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<tr>
<td>ME 8990</td>
<td>Special Topics in Mechanical Engineering. 1-9 hours</td>
<td></td>
</tr>
<tr>
<td>ME 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
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</table>
Degree Programs
(T=thesis; NT=non-thesis)
[1=Starkville, 2=Meridian, 5=Distance]

Department of Forest Products
Master of Science
Major: Forest Products (T; NT) [1]
Doctor of Philosophy
Major: Forest Resources
Concentration: Forest Products [1]

Department of Forestry
Master of Science
Major: Forestry (T; NT) [1, 5]
Doctor of Philosophy
Major: Forest Resources
Concentration: Forestry [1]

Department of Wildlife, Fisheries & Aquaculture
Master of Science
Major: Wildlife and Fisheries Science (T) [1]
Doctor of Philosophy
Major: Forest Resources
Concentration: Wildlife and Fisheries [1]

The College of Forest Resources (CFR) is composed of three departments: Forest Products; Forestry; and Wildlife, Fisheries and Aquaculture. Each department is home to a diverse cadre of faculty who direct graduate students pursuing master’s and doctoral degrees. Prospective students can find detailed information regarding graduate degree programs in each department’s respective narrative below. Usually, graduate students are supported by teaching or research assistantships. Prospective students are encouraged to visit the CFR Website (www.cfr.msstate.edu), identify faculty members with research interests similar to theirs, and correspond with the faculty or department head to determine the potential for being accepted into a program of interest.

Forest Products
Dr. Rubin Shmulsky, Department Head and Graduate Coordinator
100 Blackjack Road
Box 9820
Mississippi State, MS 39762-9820
Telephone: 662-325-2116
E-mail: rshmulsky@cfr.msstate.edu

The Forest Products field is concerned with extending our 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, thesis option, and Master of Science, non-thesis option, in Forest Products or Doctor of Philosophy in Forest Resources with a concentration in Forest Products. The M.S. thesis-option program requires 24 hours of coursework, 6 hours of thesis research/thesis, and a comprehensive examination. The M.S. non-thesis option program requires 27 hours of coursework, 3 hours of independent study, and a comprehensive examination. The Ph.D. program may entail approximately 60 hours of course and research work, a written preliminary examination, an oral examination, and a dissertation. 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 6 hours of research skill courses from the departmental list. Research assistantships are available for Ph.D. students and for M.S. students in the thesis option. 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 PBT (213 CBT or 79 iBT) or IELTS score of 6.5 or better in order to be considered. Interviews, certifications, etc. are not applicable.

Provisional Admission—A provisional student must receive a 3.00 GPA on the first 9 hours of graduate level courses on his or her program of study taken at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement) 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.

Program of Study/Completion Requirements
The M.S. program requires 24 hours of coursework with at least half at the 8000 level, 6 hours of thesis 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).

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>
<th>Credits</th>
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<tbody>
<tr>
<td>FP 6013</td>
<td>Wood Anatomy (FP 1103 or consent of instructor). 3 hours</td>
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<tr>
<td>FP 6023</td>
<td>Wood Chemistry (CH 1053 and CH 1223). 3 hours</td>
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<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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<td>FP 6123</td>
<td>Lumber Manufacturing (Consent of instructor). 3 hours</td>
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<td>FP 6143</td>
<td>Composite Wood Products (FP 4113). 3 hours</td>
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<td>FP 6213</td>
<td>Wood Deterioration and Preservation (Consent of instructor). 3 hours</td>
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<td>FP 6223</td>
<td>Furniture Production I (FP 1103 or consent of instructor). 3 hours</td>
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<td>FP 6233</td>
<td>Furniture Production II (FP 1103 or consent of instructor). 3 hours</td>
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<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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<td>FP 7000</td>
<td>Directed Individual Study. 3 hours</td>
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<td>FP 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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<td>FP 8111</td>
<td>Research Seminar. 1 hour</td>
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<td>FP 8121</td>
<td>Research Seminar II. 1 hour</td>
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<td>FP 8113</td>
<td>Advanced Wood Physics (Consent of instructor). 3 hours</td>
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<td>FP 8123</td>
<td>Lignocellulosic Biomass 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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<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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<td>FP 8213</td>
<td>Advanced Wood Mechanics (Consent of instructor). 3 hours</td>
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<td>FP 8990</td>
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<td>FP 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
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Forestry
Dr. Andrew W. Ezell, Department Head and Graduate Coordinator
110B Thompson Hall
Box 9681
Mississippi State, MS 39762-9681
Telephone: 662-325-2949
E-mail: aezell@cfr.msstate.edu

Graduate study is offered in the Department of Forestry leading to the degrees of Master of Science
(M.S.) in Forestry (Main Campus [01] and Distance Campus [05] and Doctor of Philosophy (Ph.D.) in Forest Resources with a concentration in Forestry. 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, urban forestry, forest recreation, and wildlife and other natural resource 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 PBT (213 CBT or 79 iBT) or IELTS score of 6.5 or higher for regular admission of international students or a TOEFL score between 477 and 549 (or IELTS equivalent) for conditional admission; and
4. acceptance by a faculty member who will serve as the student’s major professor. In addition, Graduate Record Examination (GRE) scores may be requested of students applying for provisional admission or international students applying from non-accredited universities or colleges.

Admission to the Ph.D. program in the Department of Forestry requires:

1. a bachelor’s degree from an accredited university and an 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 the master’s requirement);
3. a TOEFL score of 550 PBT (213 CBT or 79 iBT) or IELTS score of 6.5 or higher for regular admission of international students or a TOEFL score between 477 and 549 (or IELTS equivalent) for conditional admission; and
4. acceptance by a faculty member who will serve as the student’s major professor. In addition, GRE scores may be requested of international students applying from non-accredited universities or colleges. There is no provisional admission to the doctoral program.

**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 under provisional status, if accepted by a faculty member in the department. Scores on the GRE 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 9 hours of graduate level courses on their programs of study at MSU to achieve regular status. Courses with a S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. 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.

**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 coursework for the non-thesis option and will include FO 8293 Master of Science Professional Paper. At least 24 hours of coursework and 6 hours of FO 8000 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 coursework 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, courses currently available at MSU, the MSU requirement of 20 hours of FO 9000 Research/Dissertation credit, 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 preliminary and/or comprehensive examinations, a final oral examination, and a dissertation.

**Academic Performance**

A graduate student must maintain a 3.00 GPA to remain on a graduate assistantship and must have a 3.00 GPA to receive his/her degree. A main campus student who begins the program in regular status and falls below a 3.00 cumulative GPA after the start of the program will be placed on probationary status in the following semester and must regain a cumulative GPA of 3.00 within the next two subsequent semesters or within 9 credit hours of graduate coursework, whichever comes first (providing that the student attains a minimum GPA of 3.00 in all semesters during the probationary period). A distance education student who begins the M.S.
program in regular status and falls below a 3.00 cumulative GPA after the start of the program will be placed on probationary status in the following semester and will be allowed 9 credit hours of graduate coursework to bring his/her cumulative GPA back to 3.00 regardless of the number of semesters (providing that the student attains a minimum GPA of 3.00 in all semesters during the probationary period). 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.

A student receiving any grade of D or F in any course taken after admission to the graduate program will be placed on academic probation and will be required to maintain satisfactory academic performance in all subsequent semesters of his/her graduate program or will be dismissed from the graduate program and lose eligibility for readmission. A student receiving a grade of U will have one semester to bring his/her performance back up to satisfactory or will be dismissed from the graduate program and lose eligibility for readmission.

**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 9 credit hours of graduate-level forestry courses must be taken. If a minor is chosen in another field, at least 9 hours in the minor area must be taken, and a committee member from the minor area is required (refer to individual departmental requirements for minors). For the Ph.D. program, at least 12 hours of graduate-level coursework 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 suited for the program of study. For the M.S. thesis-option, one-half of the coursework (Research/Thesis credit hours excluded) must be at the 8000 level or above. For the non-thesis option, at least 15 hours of coursework must be at the 8000 level or above.

**Completion Requirements**

Completion of the M.S. program requires passing at least 30 credit hours of academic coursework for the non-thesis option or a minimum of 24 credit hours of academic coursework for the thesis option with a GPA of 3.00 or higher, writing a professional paper or thesis, passing a final comprehensive defense of the 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 6 hours of completing coursework, writing a dissertation, passing a final comprehensive defense of the 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 Courses in Forestry**—Course prerequisites are noted in parentheses. (OL) indicates that the course is available both on the Main Campus and online.

- **FO 6113** Forest Resource Economics (AEC 2713 or equivalent). 3 hours
- **FO 6123** Forest Ecology (FO 3012). 3 hours
- **FO 6213** Forest Biometrics (FO 3102, FO 3101, and FO 3015, or consent of instructor). 3 hours
- **FO 6221** Practice of Silviculture Laboratory (FO 4123/6123 or WFA 4223; corequisite FO 6223). 1 hour
- **FO 6223** Practice of Silviculture (FO 4123/6123 or WFA 4133 and WFA 4223; corequisite FO 6221). 3 hours
- **FO 6231** Introduction to Wood Supply Systems (Corequisite FO 3015). 1 hour
- **FO 6233** Forest Operations and Harvesting (FO 3015 and FO 4231/6231, or consent of instructor). 3 hours
- **FO 6253** Forest Procurement (FO 4231/6231, FO 4233/6233 or consent of instructor). 3 hours
- **FO 6313** Spatial Technologies in Natural Resources Management (FO 3015 or GR 2313 or consent of instructor). 3 hours
- **FO 6323** Forest Resource Management (FO 4113/6113, FO 4213/6213, FO 4223/6223, FO 4231/6231, FO 4233/6233). (OL) 3 hours
- **FO 6343** Forest Administration and Organization. 3 hours
FO 6353  Natural Resource Law (Consent of instructor). (OL) 3 hours

FO 6411  Remote Sensing Seminar (Junior standing; may be repeated for credit up to four credits). 1 hour

FO 6413  Natural Resources Policy. (OL) 3 hours

FO 6423  Professional Practices (FO 4323/6323). (OL) 3 hours

FO 6443  International Forest Resources and Trade (Consent of instructor). 3 hours

FO 6451  Remote Sensing Applications Laboratory (A basic image/interpretation or remote sensing course; corequisite: FO 6452). 1 hour

FO 6452  Remote Sensing Applications (A basic image/interpretation or remote sensing course or consent of instructor; corequisite FO 6451). 2 hours

FO 6463  Forest Hydrology and Watershed Management (PSS 3303, FO 4223/6223, and FO 4221/6221, or consent of instructor). 3 hours

FO 6471  GIS for Natural Resource Management Laboratory (corequisite: FO 6472). 1 hour

FO 6472  GIS for Natural Resource Management (corequisite: FO 6471). 2 hours

FO 6483  Forest Soils (PSS 3303, FO 4121/6121, FO 4123/6123 or consent of instructor). 3 hours

FO 6990  Special Topics in Forestry. 1 to 9 hours

FO 7000  Directed Individual Study. 1 to 3 hours

FO 8000  Research/Thesis. Hours and credits to be arranged; minimum of 20 hours required for degree

FO 8111  Graduate Seminar (First year of study). (OL) 1 hour

FO 8143  Advanced Forest Economics. 3 hours

FO 8153  Quantitative Ecology (MA 1723 and ST 8114 or consent of instructor). 3 hours

FO 8163  Nonmarket Forest Values (FO 4113/6113 or consent of instructor). (OL) 3 hours

FO 8173  Advanced Spatial Technologies (introductory course in remote sensing or GIS, or consent of instructor). 3 hours

FO 8211  Graduate Seminar (Last year of study). (OL) 1 hour

FO 8213  Advanced Silviculture (FO 4223/6223 or consent of instructor). 3 hours

FO 8233  Advanced Forest Inventory. 3 hours

FO 8243  Advanced Forest Resource Management and Planning (FO 8143). (OL) 3 hours

FO 8293  Professional Paper (For Master of Science non-thesis option students only). 3 hours

FO 8313  Spatial Statistics for Natural Resources (ST 4313/6313 and introductory GIS course, or consent of instructor). 3 hours

FO 8961  Nobel Topics in Physiology/Medicine and Chemistry (Graduate standing and consent of instructor) [Same as CVM 8961 and GNS 8961]. May be repeated three times for credit. 1 hour

FO 8973  Scientific Writing (Graduate standing and consent of instructor) [Same as ADS 8973 and CVM 8973]. 3 hours

FO 8983  Advanced Biotechnology (BCH 6603, BCH 6613, BCH 6713, or consent of instructor) [Same as CVM 8983]. 3 hours

FO 8990  Special Topics in Forestry. 1 to 9 hours

FO 9000  Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

The Wildlife, Fisheries and Aquaculture Department offers graduate education leading to the Master of Science in Wildlife and Fisheries Science with emphases in wildlife ecology, fisheries ecology, and aquaculture. The Master of Science degree requires 24 hours of coursework, 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 a concentration in Wildlife and Fisheries and emphases in wildlife ecology, fisheries ecology, or aquaculture. The Ph.D. requires one graduate-level statistics course, variable hours of coursework (determined by the graduate committee), oral and written comprehensive preliminary examinations, a dissertation and oral defense of the dissertation. A limited number of graduate research assistantships are available. For additional information write to Department Head, Department of Wildlife, Fisheries 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 also is usually 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 an 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. Official transcripts of undergraduate and graduate work, GRE, and TOEFL or IELTS scores (if appropriate) should be sent to the MSU Office of the Graduate School.

Provisional Admission—A student entering on a provisional basis (available only for master’s students) is required to take three graduate courses (minimum of 9 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. The department has an appeal process in the event the student wishes to file an appeal. 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 department head.

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 in the first semester of enrollment. Master of Science graduate committees must include at least three members of the graduate faculty, including the major professor, 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.

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 (or co-major professors) as chairperson(s), who must be a full member(s) (Level 1) of the graduate faculty and from the major field, a minor professor (if a minor is being pursued by the student), and at least three other members, two of whom are 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 must be submitted on a change of committee request 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 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’s office and will be forwarded to the Graduate School during the student’s last semester of coursework.

Twenty-four hours of coursework are required for master’s students, at least half of which is at the 8000 level or above, along with 6 hours of Thesis Research/Thesis.

A doctoral student’s program of study is required in the Office of the Graduate School when the preliminary/comprehensive examination is scheduled. The Ph.D. student is required to have 20 hours of research/dissertation research and must meet the residency requirement of three years with one full semester (9 hours) or two semesters half-time (6 hours each) to the graduate program.

Unsatisfactory Performance—All graduate students are expected to know and comply with University, departmental, and subject-area requirements. Failure to comply satisfactorily with all requirements may seriously affect 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.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>WFA 6133</td>
<td>Fisheries Science (ST 3123 or equivalent).</td>
<td>3 hours</td>
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<tr>
<td>WFA 6173</td>
<td>Fish Physiology. 3 hours</td>
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<tr>
<td>WFA 6183</td>
<td>Principles and Practices of Aquaculture. 3 hours</td>
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<td>WFA 6193</td>
<td>Crustacean and Molluscan Aquaculture. 3 hours</td>
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<td>WFA 6213</td>
<td>Wildlife Damage Management (WFA 3133 or consent of instructor). 3 hours</td>
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<td>WFA 6221</td>
<td>Limnology Laboratory (WFA 3133 or consent of instructor; co-requisite WFA 6222). 1 hour</td>
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<td>WFA 6222</td>
<td>Limnology (WFA 3133 or consent of instructor; co-requisite WFA 6221). 2 hours</td>
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<td>WFA 6223</td>
<td>Identification of Aquatic and Terrestrial Plants (WFA 3133 or equivalent). 3 hours</td>
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<td>WFA 6253</td>
<td>Application of Spatial Technologies to Wildlife and Fisheries Management (Consent of instructor). 3 hours</td>
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<td>WFA 6263</td>
<td>Wildlife Diseases (Same as CVM 6263). 3 hours</td>
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<td>WFA 6273</td>
<td>Ecology and Management of Human-Wildlife Conflicts (WFA 1102 and WFA 3133 or consent of instructor). 3 hours</td>
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<td>WFA 6313</td>
<td>Fisheries Management (WFA 3133 or consent of instructor). 3 hours</td>
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<td>WFA 6323</td>
<td>Wildlife Nutrition and Physiology. 3 hours</td>
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<td>WFA 6333</td>
<td>Fish and Shellfish Nutrition (CH 2503 and CH 2501 or BCH 3613). 3 hours</td>
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<td>WFA 6343</td>
<td>Pond and Stream Management (Consent of instructor). 3 hours</td>
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<td>WFA 6353</td>
<td>Fish and Wildlife Policy and Law Enforcement (Consent of instructor). 3 hours</td>
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<td>WFA 6363</td>
<td>Wildlife and Fisheries Administration and Communication. 3 hours</td>
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<td>WFA 6373</td>
<td>Principles and Practice of Conservation in Agricultural Landscapes (WFA 1213 or consent of instructor). 3 hours</td>
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<td>WFA 6383</td>
<td>Wetlands Ecology and Management. 3 hours</td>
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<td>WFA 6394</td>
<td>Waterfowl Ecology and Management (WFA 3133, WFA 4153, or consent of instructor). 4 hours</td>
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<td>WFA 6483</td>
<td>Seminar in Tropical Biology (WFA 3133 or consent of instructor). 3 hours</td>
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<td>WFA 6484</td>
<td>Upland Avian Ecology and Management (WFA 3133 and WFA 4153 or consent of instructor). 4 hours</td>
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<td>WFA 6494</td>
<td>Large Mammal Ecology and Management (WFA 3133 and WFA 4153). 4 hours</td>
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<td>WFA 6512</td>
<td>Advanced Topics in Human-Wildlife Conflicts I (WFA 4273/6273, WFA 4283/6283, or consent of instructor). 2 hours</td>
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<td>WFA 6990</td>
<td>Special Topics in Wildlife and Fisheries. 1-9 hours</td>
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<tr>
<td>WFA 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<td>WFA 8000</td>
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<td>WFA 8134</td>
<td>Research Methods in Wildlife and Fisheries Sciences (Graduate standing; ST 8114). 4 hours</td>
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<tr>
<td>WFA 8144</td>
<td>Theory of Wildlife Population Ecology (WFA 3133, ST 3133 or consent of instructor). 4 hours</td>
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<tr>
<td>WFA 8154</td>
<td>Quantitative Applications in Wildlife Population Ecology (WFA 8144, ST 8114 or consent of instructor). 4 hours</td>
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<td>WFA 8212</td>
<td>Communication Skills in Wildlife and Fisheries (Graduate student status in Department of Wildlife and Fisheries). 2 hours</td>
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<td>WFA 8223</td>
<td>Management of Impounded River Ecosystems (WFA 4313/6313 or equivalent). 3 hours</td>
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<td>WFA 8243</td>
<td>Conservation Biology (WFA 3133, BIO 3103 or consent of instructor). 3 hours</td>
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<tr>
<td>WFA 8273</td>
<td>Advanced Fisheries Management (WFA 4313/6313 and WFA 4313/6313 or consent of instructor). 3 hours</td>
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<td>WFA 8343</td>
<td>Conceptual Ecology and Natural Resource Management (WFA 3133 or equivalent or consent of instructor). 3 hours</td>
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<td>WFA 8344</td>
<td>Wildlife Habitat Analysis and Management (BIO 4203). 4 hours</td>
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<tr>
<td>WFA 8413</td>
<td>Advanced Fishery Science (WFA 4133/6133 and ST 3123 or equivalents). 3 hours</td>
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<td>WFA 8423</td>
<td>Applied Bayesian Statistics in Ag/Natural Resources. 3 hours</td>
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<tr>
<td>WFA 8990</td>
<td>Special Topics in Wildlife and Fisheries. 1-9 hours</td>
<td></td>
</tr>
<tr>
<td>WFA 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
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</table>
Degree Programs (T=thesis; NT=non-thesis)  
[1=Starkville, 2=Meridian, 5=Distance]

Master of Science  
Major: Veterinary Medical Science (T; NT) [1]

Doctor of Philosophy  
Major: Veterinary Medical Science [1]

Doctor of Philosophy  
Major: Environmental Toxicology [1]

The College of Veterinary Medicine graduate program in Veterinary Medical Sciences (VMS) was initiated in the early 1980s. The program provides advanced, specialized training (M.S. and Ph.D.) in fish and poultry health, infectious diseases, food safety, environmental health sciences, and biomedical research, focused especially on animal models. In 1995, the College began offering graduate training leading to a Ph.D. in environmental toxicology (ENVT). The College is committed to increasing our graduate student enrollment to meet the human resource demands of veterinary and biomedical research required to advance science and reduce or eliminate animal and human disease and illness. The Center for Environmental Health Sciences (CEHS, a College center) and the Institute for Digital Biology (IDB, a University institute) are conducting research and are training future scientists in these areas. The integrative nature of these center/institute efforts provides graduate students with opportunities to investigate questions in broader scientific focus areas while applying the tools and methodologies available through the CEHS and IDB.

Environmental Toxicology  
Dr. Russell Carr, Graduate Coordinator  
R2000 Wise Center  
Box 6100  
Mississippi State, MS 39762-6100  
Telephone: 662-325-1417  
E-mail: bperrigin@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 PBT (213 CBT or 79 iBT) or IELTS score of 6.5 for international students where English is not the primary language, and if a Graduate Record Examination score is available it will be considered.

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 9 hours of regular graduate-level courses (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement). In addition, three grades below a B in graduate courses will remove the student from degree candidacy.

Program of Study/Completion Requirement  
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

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Admission Criteria  
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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 9 hours of regular graduate-level courses (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement). In addition, three grades below a B in graduate courses will remove the student from degree candidacy.

Program of Study/Completion Requirement  
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 Research/Dissertation, three seminar courses, and 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.

For readmission to any graduate degree program in the College of Veterinary Medicine, the College requires that students who have not been enrolled for one regular semester submit a readmission form to the Office of the Graduate School. The graduate coordinator for the College 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 program of graduate study.

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, Box 6100, Mississippi State, MS 39762-6100 or visit the Website at http://www.cvm.msstate.edu.

Veterinary Medical Science
Dr. Hart Bailey, Graduate Coordinator, Pathobiology and Population Medicine
Dr. Larry Hanson, Graduate Coordinator, Basic Sciences
Dr. Andrew Mackin, Graduate Coordinator, Clinical Sciences
Dr. Russell Carr, Graduate Coordinator, Environmental Toxicology
R 2002 Wise Center
Box 6100
Mississippi State, MS 39762-6100
Telephone: 662-325-1417
E-mail: bperrigin@cvm.msstate.edu

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 PBT (213 CBT or 79 iBT) or IELTS score of 6.5 for international students where English is not the primary language, and if a Graduate Record Examination (GRE) score is available it will be considered.

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.

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 coursework 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 20 hours of Dissertation Research/Dissertation, three seminar courses, two statistics courses, and pass preliminary and final examinations, both of which can cover the major and supportive fields and include defense of the dissertation.

Thesis/dissertation-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.

For readmission to any graduate degree program in the College of Veterinary Medicine, the College requires that students who have not been enrolled for one regular semester submit a readmission form to the Office of the Graduate School. The graduate coordinator for the College 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 program of graduate study.

**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, Box 6100, Mississippi State, MS 39762-6100 or visit our Website: [http://www.cvm.msstate.edu](http://www.cvm.msstate.edu).

**Graduate Courses**—Course prerequisites are listed in parentheses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CVM 6021</td>
<td>Essentials in Research Practice and Professionalism</td>
<td>1 hours</td>
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<tr>
<td>CVM 6033</td>
<td>Physiology I (Enrollment in the professional veterinary degree program).</td>
<td>3 hours</td>
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<tr>
<td>CVM 6036</td>
<td>Veterinary Physiology (Enrollment in the professional veterinary degree program and enrollment in a Ph.D. program). 6 hours</td>
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<tr>
<td>CVM 6083</td>
<td>Physiology II (CVM 5033 or CVM 6033 and enrollment in a Ph.D. program).</td>
<td>3 hours</td>
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<tr>
<td>CVM 6134</td>
<td>Aquatic Animal Health Management (One course in microbiology and one course in physiology). 4 hours</td>
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<tr>
<td>CVM 6163</td>
<td>Veterinary Parasitology (Enrollment in the professional veterinary degree program.) 3 hours</td>
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<tr>
<td>CVM 6180</td>
<td>Emerg Prep Animal Health. Pharmacology I (Enrollment in the professional veterinary degree program and enrollment in a Ph.D. program). 3 hours</td>
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<tr>
<td>CVM 6263</td>
<td>Wildlife Diseases [Same as WFA 6263].</td>
<td>2 hours</td>
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<tr>
<td>CVM 6602</td>
<td>Comparative Endocrinology II (Enrollment in a veterinary graduate program; instructor approval). 2 hours</td>
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<td>CVM 6513</td>
<td>Environmental Toxicology (8 hours biological sciences and 8 hours chemistry). 3 hours</td>
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<td>CVM 6990</td>
<td>Special Topic in CVM. Hours and credits to be arranged.</td>
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<td>CVM 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<td>CVM 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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<tr>
<td>CVM 8011</td>
<td>Seminar. 1 hour</td>
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<tr>
<td>CVM 8031</td>
<td>Current Topics in Molecular Mechanisms of Disease. 1 hour</td>
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<tr>
<td>CVM 8041</td>
<td>Advanced Clinical Radiology Seminar (Course leader approval; Can be repeated for credit). 1 hour</td>
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<td>CVM 8051</td>
<td>Advanced Clinical Pathology Seminar (Course leader approval; Can be repeated for credit). 1 hour</td>
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<td>CVM 8061</td>
<td>Small Animal Surgery Literature Seminar. 1 hour</td>
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<td>CVM 8091</td>
<td>Top Production Animal Medicine (May be repeated four times for credit). 1 hour</td>
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<td>CVM 8101</td>
<td>Case Studies Research Ethics [Same as PHI 8101]. 1 hour</td>
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<tr>
<td>CVM 8105</td>
<td>Avian Externship (Consent of instructor). 5 hours</td>
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<td>CVM 8113</td>
<td>Advanced Diseases of Poultry. 3 hours</td>
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<td>CVM 8133</td>
<td>Avian Necropsy (Consent of instructor). 3 hours</td>
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<td>CVM 8134</td>
<td>Advanced Fish Diseases (CVM 6134 or permission). 4 hours</td>
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<td>CVM 8153</td>
<td>Histopathology of Fish Disease (CVM 4134/6134 or equivalent). 3 hours</td>
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<td>CVM 8190</td>
<td>Aquatic Diagnostic Investigation (CVM 6134 or equivalent or consent of instructor). 1-6 hours</td>
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<td>CVM 8301</td>
<td>Advanced Topics in Comparative Immunology. 1 hour</td>
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<td>CVM 8303</td>
<td>Advanced Immunology (BIO 6413 or equivalent or consent of instructor). 3 hours</td>
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<td>CVM 8315</td>
<td>Immunological Techniques. 5 hours</td>
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<td>CVM 8323</td>
<td>Zoonotic Disease in Public Health. 3 hours</td>
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<td>CVM 8333</td>
<td>Food Safety and Security in Public Health (enrolled in graduate school, MPH program, or consent of instructor). 3 hours</td>
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<td>CVM 8343</td>
<td>Biosecurity and Environmental Health (Enrollment in graduate school or permission of instructor). 3 hours</td>
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<tr>
<td>CVM 8403</td>
<td>Principles of Pharmacology and Pharmacokinetics. 3 hours</td>
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<td>CVM 8503</td>
<td>Epidemiology/Biostatistics. 3 hours</td>
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<td>CVM 8513</td>
<td>Applied Veterinary Epidemiology. 3 hours</td>
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<td>CVM 8523</td>
<td>Organ Systems Tox I. 3 hours</td>
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<td>CVM 8533</td>
<td>Organ Systems Tox II. 3 hours</td>
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<td>CVM 8543</td>
<td>Mechanisms Toxic Action. 3 hours</td>
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<td>CVM 8552</td>
<td>Foreign and Emerging Animal Diseases (CVM 5133). 2 hours</td>
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<tr>
<td>CVM 8614</td>
<td>Helminthology (BIO 1144 or consent of instructor). 4 hours</td>
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<td>CVM 8624</td>
<td>Protozoology (BIO 1504 or equivalent)</td>
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<td>CVM 8701</td>
<td>Pathology Seminar</td>
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<td>CVM 8711</td>
<td>Histopath Descriptions (Consent of instructor)</td>
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<tr>
<td>CVM 8721</td>
<td>Gross Vet Path (CVM 5044 or consent of instructor; may be repeated for credit)</td>
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<td>CVM 8723</td>
<td>Advanced General Pathology (Consent of instructor)</td>
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<td>CVM 8733</td>
<td>Pathologic Basis of Diseases (Acceptance to dual degree DVM/MS program or consent of instructor)</td>
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<td>CVM 8743</td>
<td>Emerging Infect Disease (Acceptance to dual degree program or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>CVM 8790</td>
<td>Laboratory Diagnostic Services</td>
<td>1-9 hours</td>
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<td>CVM 8801</td>
<td>Seminars in Vet Anes (DVM or equivalent degree, or permission from instructor)</td>
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<tr>
<td>CVM 8802</td>
<td>Canine Theriogenology (Consent of instructor)</td>
<td>2 hours</td>
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<tr>
<td>CVM 8805</td>
<td>Advanced Small Animal Clinical Neurology (Must already have registerable veterinary degree and consent of instructor)</td>
<td>5 hours</td>
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<td>CVM 8812</td>
<td>Equine Repro Ultrasound (Consent of instructor)</td>
<td>2 hours</td>
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<td>CVM 8825</td>
<td>Large Animal Urogenital Surgery (Consent of instructor)</td>
<td>5 hours</td>
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<tr>
<td>CVM 8890</td>
<td>Economic and Performance Medicine (Consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>CVM 8961</td>
<td>Nobel Topics in Physiology/Medicine and Chemistry (Graduate standing and consent of instructor) [Same as GNS 8961 and FO 8961]. May be repeated three times for credit.</td>
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<tr>
<td>CVM 8973</td>
<td>Scientific Writing (Graduate standing and consent of instructor) [Same as ADS 8973 and FO 8973].</td>
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<tr>
<td>CVM 8983</td>
<td>Advanced Biotechnology (BCH 6603, BCH 6613, or consent of instructor)</td>
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<td>CVM 8990</td>
<td>Special Topics in Veterinary Medicine</td>
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<td>CVM 8993</td>
<td>Functional Genomics (BCH 6713 and ST 6243 or consent of instructor)</td>
<td>3 hours</td>
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<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
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</tbody>
</table>
THE GRADUATE FACULTY

Within Principles of Accreditation: Foundations for Quality Enhancement, the Southern Association of Colleges and Schools’ Commission on Colleges, the following statement concerning faculty appears.

The institution employs competent faculty members qualified to accomplish the mission and goals of the institution. When determining acceptable qualifications of its faculty, an institution gives primary consideration to the highest earned degree in the discipline. The institution 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 effective teaching and student learning outcomes. For all cases, the institution is responsible for justifying and documenting the qualifications of its faculty. (Comprehensive Standard 3.7.1, December 2008)

With the approval of the dean of the college, each department with graduate programs will determine procedures for handling recommendations or appeals concerning Graduate Faculty appointments, reappointments, or changes in level of membership status. The department and/or the college criteria and procedures must be consistent with the qualifications and responsibilities outlined below but may be more restrictive.

Graduate Faculty members are listed in the Bulletin of the Graduate School and on the Graduate School Website at http://www.grad.msstate.edu/faculty/.

Graduate Faculty Appointment Levels

Level 1 Qualifications
An individual appointed to Level 1 Graduate Faculty must

- have an earned terminal degree (highest degree awarded in the discipline) in or related to the faculty member’s area of graduate responsibility;
- be a full-time employee of Mississippi State University, holding the rank of assistant professor or assistant research professor or assistant extension professor or assistant clinical professor or higher without any qualifying designations such as “visiting” or “adjunct”;
- have demonstrated and maintained noteworthy accomplishments in research and/or creative achievement, as defined in the Faculty handbook (6.1.2);
- and have demonstrated experience directing graduate research and independent study, thesis, or dissertation.

Level 1 Responsibilities
An individual appointed to Level 1 Graduate Faculty may

- teach graduate-level courses in each field of specialization based upon formal advanced study or demonstrated competence through independent scholarly activity;
- serve as a member of master’s non-thesis, master’s thesis, specialist non-thesis, or specialist thesis committee within Department of appointment or outside Department;
- serve as a chair of master’s non-thesis, master’s thesis, specialist non-thesis, or specialist thesis committee within the faculty member’s area of graduate responsibility;
- serve as a member of doctoral committees and doctoral dissertations within Department of appointment or outside Department;
- serve as a chair of doctoral committees and/or director of doctoral dissertations within the faculty member’s area of graduate responsibility.

A Level 1 term of service is five years and is approved by the Dean of the Graduate School. The appointment is renewed at the discretion of the department head and dean of the college.

Level 2 Qualifications
An individual appointed to Level 2 Graduate Faculty must

- have an earned terminal degree (highest degree awarded in discipline) in or related to the faculty member’s area of graduate responsibility;
- be a full-time employee of Mississippi State University, holding the rank of assistant professor or assistant research professor or assistant extension professor or assistant clinical professor or higher without any qualifying designations such as “visiting” or “adjunct”;
and have demonstrated and maintained a record in research and/or creative achievement, as defined in the Faculty Handbook (6.1.2).

**Level 2 Responsibilities**

An individual appointed to Level 2 Graduate Faculty may

- teach graduate-level courses in each field of specialization based upon formal advanced study or demonstrated competence through independent scholarly activity;
- serve as a member of master’s non-thesis, master’s thesis, specialist non-thesis, or specialist thesis committee within Department of appointment or outside Department;
- serve as a chair of master’s non-thesis, master’s thesis, specialist non-thesis, or specialist thesis committee within the faculty member’s area of graduate responsibility;
- serve as a member of doctoral committees and doctoral dissertations within Department of appointment or outside Department;
- serve as a co-chair of doctoral committees and/or director of doctoral dissertations with a co-director, who has Level 1 Graduate Faculty status, within the faculty member’s area of graduate responsibility.

A Level 2 term of service is five years and is approved by the Dean of the Graduate School. The appointment is renewed at the discretion of the department head and dean of the college. A Level 2 Graduate Faculty member may apply to have his/her appointment status changed to a Level 1 Graduate Faculty status when the conditions for Level 1 status have been met. A status change from Level 2 to Level 1 requires the support of the department head and dean of the college and will be approved by the Dean of the Graduate School.

**Associate Level Qualifications**

An individual appointed to Associate Graduate Faculty must

- have a terminal degree (highest degree awarded in the discipline) in or related to the faculty member’s area of graduate responsibility;
- be a full-time employee of Mississippi State University holding the rank of assistant professor or assistant research professor or assistant extension professor or assistant clinical professor and may include the qualifying designation of Visiting Faculty (as defined in AOP 13.22);
- and have a record of research and/or creative achievement as described in the Faculty Handbook (6.1.2) or the ability to conduct research.

**Associate Level Responsibilities**

An individual appointed to Associate Level Graduate Faculty may

- teach graduate-level courses in each field of specialization for which formal advanced study or demonstrated competence is documented;
- serve as a member of master’s non-thesis, master’s thesis, specialist non-thesis, or specialist thesis committees within Department of appointment or outside Department;
- serve as a member of doctoral and dissertation committees within Department of appointment or outside Department.

An Associate Level term of service is five years and is approved by the Dean of the Graduate School. The appointment is renewed at the discretion of the department head and dean of the college.

**Participant Appointments**

Participant appointments can be granted to individuals to enable them to participate either through graduate teaching or graduate committee participation. Individuals who receive participant appointments do not fall under the criteria of Level 1, Level 2, or Associate categories.

**Graduate Teaching Participant Status**

An individual appointed to Graduate Teaching Participant status must

- be an instructor with a terminal degree in the discipline of graduate teaching responsibility, or
- have commensurate experience in or closely related to the discipline of graduate teaching responsibility.

Commensurate expertise must be in or related to the area of graduate responsibility, such as professional certification, licensure, or record of professional practice. Applicants relying on commensurate expertise must be approved by the department head, academic dean, and approved by the Dean of the Graduate School.

An individual appointed to Graduate Teaching Participant status may

- teach a graduate course.
A Graduate Teaching Participant’s term of service is two years. The appointment is initially requested and renewed at the discretion of the department head and dean of the college and is approved by the Dean of the Graduate School.

**Graduate Committee Participant Status**

An individual appointed to Graduate Committee Participant status must

- hold a terminal degree and have research experience or commensurate expertise in the discipline of graduate research responsibility, and
- be either
  - a research associate (including postdoctoral investigators);
  - a fully retired faculty member, including emeriti appointments, from MSU or another university;
  - a member of the Graduate Faculty who departed the University in good standing (this enables a committee member or chair to continue participation as a committee member after departure. This type of appointment is at the discretion of the student’s graduate committee and the department head);
  - a faculty member at another university whose expertise contributes to the research product of the student; or
  - an individual whose expertise contributes to the research product of the student.

Commensurate expertise must be in or closely related to the area of the research discipline. Applicants relying on commensurate expertise must be approved by the department head, academic dean, and approved by the Dean of the Graduate School.

No more than two individuals who have been granted participant appointments can serve on a dissertation or doctoral committee. No more than one individual who has been granted a participant appointment can serve on a master’s non-thesis, master’s thesis, specialist non-thesis, or specialist thesis committee.

A Graduate Committee Participant term of service is three years. The appointment is renewed at the discretion of the department head and dean of the college and is approved by the Dean of the Graduate School.

**Appointment/Reappointment/Change of Level**

Forms for appointments and reappointments are available at the Office of the Graduate School website ([www.grad.msstate.edu](http://www.grad.msstate.edu)). All Graduate Faculty appointments (Level 1, Level 2, and Associate Level) and participant appointments for graduate studies must be on record with the Graduate School. The Dean of the Graduate School approves the appointments and can require review of an appointment by a committee of the Graduate Faculty of the appointing department.

**Procedures for Initial Appointment**

1. The initial appointment of individuals to the Graduate Faculty and the determination of Graduate Faculty membership level (Level 1, Level 2, and Associate) and of individuals to the participant appointment must be in accordance with the corresponding criteria and approved by the academic dean based upon recommendation from the department head and approved by the Dean of the Graduate School.
2. University administrators (individuals holding the rank of Assistant Dean or higher) seeking initial appointment to the Graduate Faculty must be held to the qualifications outlined above, but their applications go directly to the Dean of the Graduate School who makes a recommendation to the Provost. These appointments are approved by the Dean of the Graduate School.
3. Recommendations for initial appointments to the Graduate Faculty, determination of membership levels, and participant appointments may be made at any time during the calendar year. It is the responsibility of the department head, dean, and applicant to provide documentation to support an applicant’s qualifications for appointment.
4. The applicant may withdraw the request for appointment at any time.

**Procedures for Reappointment or Change in Level of Membership**

1. The Office of the Graduate School will request department heads to submit an updated list of current Graduate Faculty members with corresponding membership levels (Level 1, Level 2, or Associate Level) in early spring for publication in the annual *Bulletin of the Graduate School*. The OGS will notify academic deans of faculty members or participants whose graduate appointment status is expiring within the next fiscal year.
2. University administrators (individuals holding the rank of Assistant Dean or higher) seeking reappointment to the Graduate Faculty will be held to the qualifications outlined above, but their applications go directly to the Dean of
the Graduate School who makes a recommendation to the Provost. These appointments are approved by the Dean of the Graduate School.

3. Recommendations for change in level of membership in Graduate Faculty status may be made at any time during the calendar year. It is the responsibility of the department head, dean, and applicant to provide documentation to support the applicant’s qualifications for appointment.

4. The applicant may withdraw the request for reappointment at any time.

5. The department must notify the Graduate School when an individual holding graduate faculty status (Level 1, Level 2, or Associate Level) or graduate participant status is no longer eligible for the status appointment. For example, if a faculty member resigns, retires, or is no longer holding the status that initially made the individual eligible for the appointment, the department must notify the Graduate School. This information can be submitted at any time during the calendar year.

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GRADUATE FACULTY BY COLLEGE/DEPARTMENT

Mitchell Memorial Library

Level 1
Lee, Deborah O., Ph.D., Mississippi State University, Professor/Coordinator of Library Instructional Services

COLLEGE OF AGRICULTURE AND LIFE SCIENCES

Agricultural Economics

Level 1
Allen, Albert J., Ph.D., Mississippi State University, Professor
Barnett, Barry J., Ph.D., University of Kentucky, Professor
Coble, Keith H., Ph.D., Texas A&M University, Professor
Harri, Ardian, Ph.D., Oklahoma State University, Assistant Professor
Herndon, Cary W., Jr., Ph.D., Oklahoma State University, Professor
Hood, Kenneth W., Ph.D., Mississippi State University, Extension Professor
Ibendahl, Gregory A., Ph.D., University of Illinois, Associate Extension Professor
Little, Randall D., Ph.D., Oklahoma State University, Professor
Petrolia, Daniel R., Ph.D., University of Minnesota, Assistant Professor
Turner, Steven C., Ph.D., Virginia Polytechnic Institute and State University, Professor and Department Head

Level 2
Barefield, D. Alan, Ph.D., Texas A&M University, Extension Professor
Cotney, Kalyen T., Ph.D., University of Wyoming, Assistant Professor
Interis, Matthew G., Ph.D., The Ohio State University, Assistant Professor
Martin, Steven W., Ph.D., Mississippi State University, Extension/Research Professor
Morgan, Kimberly L., Ph.D., University of Florida, Assistant Extension Professor
Myles, Albert E., Ph.D., Mississippi State University, Extension Professor

Posadas, Benedict C., PhD, Mississippi State University, Associate Extension/Research Professor
Riley, John Michael, Ph.D., Kansas State University, Assistant Extension Professor
Tack, Jesse B., Ph.D., University of California- Berkeley, Assistant Professor
Participant (T=Teach; C=Committee Member)
Beaulieu, Lionel J., Ph.D., Purdue University, Director, Southern Rural Development Center, C

Animal and Dairy Sciences

Level 1
Martin, J. Michael, Ph.D., Mississippi State University, Assistant Professor
Memilli, Erdogan, Ph.D., University of Wisconsin-Madison, Associate Professor
Parish, Jane A., Ph.D., The University of Georgia, Associate Extension/Research Professor
Rude, Brian J., Ph.D., Auburn University, Professor
Ryan, Peter L., Ph.D., University of Guelph, Professor and Graduate Coordinator
Schmidt, Ty B., Ph.D., University of Missouri, Assistant Professor
Vann, Rhonda, Ph.D., Mississippi State University, Associate Research Professor
Willard, Scott T., Ph.D., Texas A&M University, Professor; Department Head of Biochemistry, Molecular Biology, Entomology, and Plant Pathology

Level 2
Boland, Holly Terry, Ph.D., Virginia Polytechnic Institute and State University, Assistant Research/Extension Professor
Crenshaw, Mark, Ph.D., Mississippi State University, Extension Professor and Interim Department Head
Feugang, Jean M. N., Ph.D., Catholic University of Louvain (Belgium), Assistant Research Professor
Hill, Stephanie R., Ph.D., Virginia Polytechnic Institute and State University, Assistant Professor
Jousan, Dean, Ph.D., University of Florida, Associate Extension Professor
Larson, Jamie, Ph.D., University of Minnesota, Assistant Professor
Nicodemus, Molly C., Ph.D., Michigan State University, Associate Professor
Rivera, J. Daniel, Ph.D., New Mexico State University, Assistant Research/Extension Professor
Smith, Trent, Ph.D., Louisiana State University, Assistant Professor

Participant (T=Teach; C=Committee Member)
Bishop, Michael D., Ph.D., The Ohio State University, Co-owner/Operator, MB Genetics, C
Callaway, Todd R., Ph.D., Cornell University, Microbiologist, College Station, TX, C
Carroll, Jeffery A., Ph.D., Texas A&M University, Research Leader, USDA-ARS, C
Godfrey, Robert W., Ph.D., Texas A&M University, Research Professor, University of the Virgin Islands, C
Kaya, Abdullah, Ph.D., Selcuk University, Product Technology Specialist, Alta Genetics, Inc., C
Kouba, Andy J., Ph.D., University of Florida, Director, Research & Conservation; Head, Forest Health & Restoration Ecology; Head, Reproductive Sciences, Memphis, TN, Zoo, C
Randel, Ronald D., Ph.D., Purdue University, Professor, Texas A&M University, C
Sartin, James L., Jr., Ph.D., Oklahoma State University, Professor, Auburn University, C
Whitley, Niki C., Ph.D., Mississippi State University, Associate Professor, University of Maryland Eastern Shore, C

Biochemistry, Molecular Biology, Entomology and Plant Pathology

Level 1
Baird, Richard E., Ph.D., University of Tennessee, Professor
Baker, Gerald T., Ph.D., Oregon State University, Professor
Baldwin, Brian, Ph.D., New Mexico State University, Professor
Bridges, Susan M., Ph.D., University of Alabama in Huntsville, Professor
Brown, Ashli, Ph.D., University of South Florida, Assistant Professor
Brown, Richard L., Ph.D., Cornell University, Professor
Caprio, Michael A., Ph.D., University of Hawaii, Professor
Catchot, Angus L., Jr., Ph.D., Mississippi State University, Associate Extension Professor
Chambers, Howard W., Ph.D., University of California, Professor
Goddard, Jerome, Ph.D., Mississippi State University, Associate Extension Professor
Gore, Jeffrey, Ph.D., Louisiana State University, Assistant Research Professor
Henn, R. Alan, Ph.D., University of Florida, Extension Professor
Hoffman, Federico G., Ph.D., Texas Tech University, Assistant Professor

Ingram, David M., Ph.D., Washington State University, Extension/Research Professor
Lawrence, Gary W., Ph.D., Louisiana State University, Associate Professor
Layton, M. Blake, Jr., Ph.D., Louisiana State University, Extension Professor
Li, Jiaxu, Ph.D., Pennsylvania State University, Associate Professor
Lu, Shien, Ph.D., Washington State University, Associate Professor
Ma, Din-Pow, Ph.D., Kent State University, Professor
Ma, Peter W. K., Ph.D., Cornell University, Associate Professor
Musser, Fred R., Ph.D., Cornell University, Assistant Professor
Peng, Zhaohua, Ph.D., Ohio State University, Associate Professor
Peterson, Daniel, Ph.D., Colorado State University, Associate Professor
Ray, David A., Ph.D., Texas Tech University, Assistant Professor
Reed, Jack T., Ph.D., University of Arkansas, Research Professor
Reichert, Nancy A., Ph.D., New Mexico State University, Professor
Riggins, John J., Ph.D., University of Arkansas at Fayetteville, Assistant Professor
Sabanadzovic, Sead, Ph.D., University of Bari, Associate Professor
Schneider, John C., Ph.D., Princeton University, Professor
Sciumbato, Gabriel L., Ph.D., Louisiana State University, Research Professor
Sparks, Darrell L., Jr., Ph.D., Mississippi State University, Assistant Professor
Tomaso-Peterson, Maria, Ph.D., Mississippi State University, Assistant Research Professor
Willard, Scott T., Ph.D., Texas A&M University, Professor and Department Head
Willeford, Kenneth, Ph.D., University of California, Riverside, Professor

Level 2
Allen, Thomas Ward, Jr., Ph.D., Auburn University, Assistant Extension Professor
Memili, Erdogan, Ph.D., University of Wisconsin-Madison, Associate Professor

Associate
Armbrust, Kevin L., Ph.D., University of California at Davis, Associate Professor
Rodriguez, Jose M., Ph.D., University of Idaho, Assistant Research Professor

Participant (T=Teach; C=Committee Member)
Allen, Clint, Ph.D., University of Arkansas, Research Entomologist, USDA-ARS, C
Allison, Jeremy D., Ph.D., University of California-Riverside, Assistant Professor, LSU Agricultural Center, C
Balbalian, Clarissa J., M.S., West Virginia University, Diagnostic Laboratory Manager, MSU, C
Boyle, John A., Ph.D., Duke University, Professor Emeritus, C
Dakin, Matt Eitel, Ph.D., Auburn University, Professor (retired), University of Southwestern Louisiana, C
Jackson, Ryan E., Ph.D., North Carolina State University, Research Entomologist, USDA-ARS, C
Jeffers, Steven N., Ph.D., Cornell University, Associate Professor, Clemson University, C
Jenkins, Johnie N., Ph.D., Purdue University, Director, Crop Science Research Laboratory, USDA, C
Jones, Walker A., Ph.D., Clemson University, Supervisory Research Entomologist, USDA-ARS, C
Kouba, Andy J., Ph.D., University of Florida, Director, Research & Conservation; Head, Forest Health & Restoration Ecology; Head, Reproductive Sciences, Memphis, TN, Zoo, C
Luthe, Dawn, Ph.D., University of Wisconsin, Professor, Penn State University, C
McLaughlin, Michael R., Ph.D., University of Illinois, Research Plant Pathologist, USDA-ARS, C
Otte, Daniel, Ph.D., University of Michigan, Curator and Chair, The Academy of Natural Sciences, C
Smith, James L., Ph.D., University of Florida, Assistant Professor, Texas A&M University, C
Snodgrass, Gordon L., Ph.D., Mississippi State University, Research Entomologist, USDA-ARS, C
Solis, M. Alma, Ph.D., University of Maryland, College Park, Research Entomologist, USDA-ARS, C
Stevens, Richard D., Ph.D., Texas Tech University, Associate Professor, Louisiana State University, C
Ulyshen, Michael Darragh, Ph.D., University of Georgia, Entomologist, USDA Forest Service, C
Warburton, Marilyn Louise, Ph.D., University of California, Davis, Research Geneticist USDA-ARS, C, T
Williams, W. Paul, Ph.D., North Carolina State University, Supervisory Research Geneticist and Research Leader, USDA-ARS, C
Windham, Gary L., Ph.D., North Carolina State University, Research Plant Pathologist, USDA-ARS, C
Wubben, Martin J., Ph.D., Iowa State University, Research Molecular Geneticist, USDA-ARS, C

Food Science, Nutrition and Health Promotion

Level 1
Byrd, Sylvia H., Ph.D., Mississippi State University, Associate Professor (Nutrition)
Fountain, Brent J., Ph.D., Mississippi State University, Associate Extension Professor (Nutrition)
Haque, Zahur Z., Ph.D., Kyoto University, Professor (Food Science and Technology)
Hunt, Barry P., Ed.D, University of Alabama, Professor (Health Promotion)
Mikel, W. Benjy, Ph.D., Mississippi State University, Professor (Food Science and Technology)
Nannapaneni, Ramakrishna, Ph.D., University of Strathclyde, Glasgow (UK), Assistant Professor (Food Science and Technology)

Level 2
Schilling, M. Wes, Ph.D., Virginia Polytechnic Institute and State University, Associate Professor (Food Science and Technology)
Silva, Juan L, Ph.D., Mississippi State University, Professor, Interim Department Head, and Graduate Coordinator (Food Science and Technology)
Tidwell, Diane K., Ph.D., Mississippi State University, Associate Professor (Nutrition)

Burney, Sandra Lynn B., Ph.D., Mississippi State University, Instructor, C, T
Chen, Tsun C., Ph.D., University of Massachusetts, Professor Emeritus, C
Ghavimi, Bahman, Ph.D., Mississippi State University, President, Dr. G’s Creations, LLC, C
Gillis, William T., Ph.D., Mississippi State University, Lecturer, (Food Science and Technology), T
Hall, Michael E., Ph.D., University of Tennessee, Lecturer, T, C
Herring, Josh L., Ph.D., Mississippi State University, Assistant Professor, Alabama A&M University, C
Lee, Michelle L., Ph.D., Mississippi State University, Dietetics Program Director and Instructor, C
Marshall, Donna A., Ph.D., University of Southern Mississippi, Horticulturist, USDA-ARS, C
Newman, Melissa C., Ph.D., University of Kentucky, Lecturer, T
Smith, Brian S., Ph.D., Louisiana State University, Director, Technical Support and Sales, John R. White Company, Inc., C
Thompson, Amy J., Ph.D., The University of Toledo, Lecturer, T, C
White, Kelly M., RD, CSSD; M.S., Mississippi State University, Lecturer, T
Xiong, Youling L., Ph.D., Washington State University, Professor, University of Kentucky, C

School of Human Sciences
Agricultural and Extension Education

Level 1
Deeds, Jacquelyn P., Ph.D., The Ohio State University, Professor
Jackson, Gary B., Ph.D., Pennsylvania State University, Associate Professor
Newman, Michael E., Ph.D., Mississippi State University, Director of Human Sciences and Professor
Oldham, Dehlia Rae, Ph.D., Colorado State University, Extension Professor
Swortzel, Kirk A., Ph.D., Ohio State University, Professor
Taylor, Walter N., Ed.D., Virginia Polytechnic Institute and State University, Professor and Assistant Dean, College of Agriculture and Life Sciences

School of Human Sciences
Human Sciences
Level 1
Davis, Louise E., Ph.D., Mississippi State University, Extension Professor
Jackson, Gary B., Ph.D., The Pennsylvania State University, Associate Professor
Shaffett, Bobbie D., Ph.D., Louisiana State University, Extension Professor
Taylor, Jan C., Ph.D., Texas Woman’s University, Professor
Worthy, Sheri L., Ph.D., Texas Tech University, Professor

Level 2
Cheek, Wanda, Ph.D., Ohio State University, Professor
Duncan, Beth, Ph.D., Mississippi State University, Extension Professor
Long, John L., Ph.D., Mississippi State University, Assistant Extension Professor
Miller, Phyllis B., Ph.D., University of Tennessee, Professor
Phillips, Tommy M., Ph.D., Auburn University, Assistant Professor
Wilmoth, Joe D., Ph.D., Oklahoma State University, Assistant Professor

Participant (T=Teach; C=Committee Member)

Holder, Susan L., Ed.D., New Mexico State University, State Program Leader 4-H, C

Landscape Architecture
Level 1
Artunc, Sadik, M.L.A., University of Michigan, Professor, and Department Head
Bruzsek, Robert F., M.L.A., Louisiana State University, Associate Professor
Melby, Philip O., M.L.A., Louisiana State University, Professor

Schauwecker, Timothy J., Ph.D., Mississippi State University, Associate Professor
Seymour, Michael, M.L.A., Louisiana State University, Assistant Professor and Graduate Coordinator
Walker, Jason B., M.L.A., Virginia Polytechnic Institute and State University, Associate Professor
Wilkerson, G. Wayne, M.A., M.L.A., Louisiana State University, Associate Professor

Level 2
Dumas, Jeremiah, M.L.A., Mississippi State University, Assistant Research Professor
Fulford, Charles Taze, III, M. Arch, University of Idaho, Assistant Professor
Gallo, Warren C., M.U.D., University of Michigan, Assistant Professor

Participant (T=Teach; C=Committee Member)
Drackett, Patricia R., M.L.A., Louisiana State University, Extension Associate II, Crosby Arboretum, C

Plant and Soil Sciences
Level 1
Baldwin, Brian S., Ph.D., New Mexico State University, Professor
Bi, Guihong, Ph.D., Oregon State University, Assistant Research Professor
Buehring, Normie W., Ph.D., Oklahoma State University, Research Professor
Byrd, John D., Ph.D., North Carolina State University, Professor
Cox, Michael S., Ph.D., Louisiana State University, Professor

Level 2
Han, F.X., Ph.D., Hebrew University in Jerusalem, Associate Research Professor
Harkess, Richard L., Ph.D., Virginia Polytechnic Institute and State University, Professor
Jeliazkov, Valtcho D., Ph.D., University of Massachusetts, Assistant Research Professor
Kingery, William L., Ph.D., Auburn University, Professor and Graduate Coordinator
Knight, Patricia R., Ph.D., Virginia Tech, Extension/Research Professor

Lang, David J., Ph.D., University of New Hampshire, Associate Professor
Larson, Erick, Ph.D., University of Nebraska-Lincoln, Research Professor

Participant (T=Teach; C=Committee Member)
Lemus, Rocky W., Ph.D., Virginia Polytechnic Institute and State University, Assistant Extension Professor
Madsen, John D., Ph.D., University of Wisconsin, Associate Extension/Research Professor
Massev, Joseph H., Ph.D., University of Wisconsin, Associate Professor
Matta, Frank B., Ph.D., Texas A&M University, Professor

Munshaw, Gregg, Ph.D., Virginia Polytechnic Institute and State University, Associate Professor
Peterson, Daniel G., Ph.D., Colorado State University, Associate Professor
Reddy, Raja K., Ph.D., Sri Venkateswara University, Professor
Reichert, Nancy A., Ph.D., New Mexico State University, Professor
Reynolds, Daniel, Ph.D., Oklahoma State University, Professor
Rowe, Dennis E., Ph.D., Pennsylvania State University, Research Professor
Shaw, David R., Ph.D., Oklahoma State University, William L. Giles Distinguished Professor
Trader, Brian Wayne, Ph.D., Virginia Tech, Assistant Professor
Tripplett, Glover B., Ph.D., Michigan State University, Professor
Varco, Jac J., Ph.D., University of Kentucky, Professor
Wallace, Teddy P., Ph.D., Texas A&M University, Associate Professor
Wells, Wayne D., Ph.D., Louisiana State University, Extension Professor
Williams, Mark A., Ph.D., Kansas State University, Assistant Professor

Level 2
Arancibia, Ramón A., Ph.D., Louisiana State University, Assistant Research Professor
Bachman, Gary R., Ph.D., The Ohio State University, Assistant Extension Professor
Barber, Thomas, Ph.D., Mississippi State University, Assistant Extension Professor
Blythe, Eugene K., Ph.D., Auburn University, Assistant Research Professor
Bond, Jason A., Ph.D., University of Arkansas, Assistant Research Professor
Braswell, John H., Ph.D., Mississippi State University, Associate Extension Professor
Buehring, Nathan, Ph.D., Mississippi State University, Assistant Extension Professor
Coker, Christine H., Ph.D., Auburn University, Assistant Research Professor
Collins, Pamela C., Ph.D., Mississippi State University, Assistant Research Professor
Conklin, Janine R., Ph.D., Pennsylvania State University, Assistant Extension Professor
Creech, John B., Ph.D., Mississippi State University, Assistant Research Professor
Crouse, Karl K., Ph.D., Mississippi State University, Associate Extension Professor
DelPrince, James, Ph.D., Mississippi State University, Associate Professor
Dodds, Darrin M., Ph.D., Mississippi State University, Assistant Extension Professor
Ebelhar, M. Wayne, Ph.D., University of Illinois, Research Professor
Eubank, Thomas W., Ph.D., Mississippi State University, Assistant Research and Extension Professor
Evans, William B., Ph.D., Michigan State University, Assistant Research Professor
Kanter, Dwight G., Ph.D., North Dakota State University, Research Professor

Kelly, Lelia Scott., Ph.D., Mississippi State University, Associate Extension Professor
Koger, Clifford H., Ph.D., Mississippi State University, Assistant Research Professor
Macon, Bisondat, Ph.D., University of Florida, Assistant Research Professor
Mentreddy, Srinivasa Rao S., Ph.D., University of Tasmania, Australia, Adjunct Associate Professor
Nagel, David, Ph.D., University of Florida, Professor
Oldham, J. Larry, Ph.D., University of Minnesota, Extension Professor
Rankins, Alfred, Jr., Ph.D., Mississippi State University, Associate Professor
Reginelli, Dennis B., Ph.D., Mississippi State University, Adjunct Faculty
Roberts, Darrin F., Ph.D., University of Nebraska-Lincoln, Assistant Professor
Samson, Scott A., Ph.D., University of Nebraska-Lincoln, Extension Professor
Shankle, Mark W., Ph.D., Mississippi State University, Assistant Research Professor
Sloan, Crofton, Ph.D., Mississippi State University, Assistant Research Professor
Snyder, Richard G., Ph.D., Cornell University, Extension/Research Professor
Stewart, Barry R., Ph.D., Virginia Polytechnic Institute and State University, Associate Professor
Walker, Timothy W., Ph.D., Mississippi State University, Associate Research Professor
Wixson, Marshall B., Ph.D., Mississippi State University, Adjunct Faculty
Zhang, Lingxiao, Ph.D., University of Illinois, Associate Research Professor

Participant (T=Teach; C=Committee Member)
Adeli, Ardeshir, Ph.D., Mississippi State University, Research Soil Scientist, USDA-ARS, C
Beasley, Jeffrey S., Ph.D., University of Illinois, Assistant Professor., C
Beasley, John P., Jr., Ph.D., Louisiana State University, Professor, University of Georgia, C
Bingner, Ronald L., Ph.D., University of Illinois, Agricultural Engineer, National Sedimentation Laboratory-Oxford, C
Blaine, Mac Alan, Ph.D., Mississippi State University, Agronomist, C
Boyette, Clyde D., Ph.D., University of Arkansas, Research Plant Pathologist, USDA-ARS, C
Brooks, John P., Ph.D., University of Arizona, Research Biologist, USDA, C
Brooks, Thomas D., Ph.D., Texas A&M University, Research Geneticist, USDA-ARS, C
Bryson, Charles T., Ph.D., Mississippi State University, Research Botanist, USDA-ARS, C
Cantrell, Charles L., Ph.D., Louisiana State University, Research Chemist, USDA-ARS, C
Columbus, Eugene P., M.S., Mississippi State University, Senior Research Associate, C
Schreiber, Jonathan D., Ph.D., Oregon State University, Supervisory Soil Scientist, USDA National Sedimentation Laboratory, C  
Sistani, Karamat R., Ph.D., Oklahoma State University, Research Soil Scientist, USDA-ARS, C  
Smith, James R. (Rusty), Ph.D., University of Illinois, Research Plant Geneticist, USDA-ARS, C  
Speers, James M., Ph.D., Texas A&M University, Research Plant Physiologist, C  
Steckel, Lawrence E., Ph.D., University of Illinois, Associate Professor, University of Tennessee, C  
Stetina, Salliana R., Ph.D., Louisiana State University, Research Plant Pathologist, USDA-ARS, C  
Street, Joe E., Ph.D., Auburn University, Associate Director/State Program Leader, MSU-ES, C  
Stringer, Stephen J., Ph.D., Louisiana State University, Research Agronomist, USDA-ARS, C  
Thaxton, Peggy S., Ph.D., Texas A&M University, Associate Research Professor (retired), C  
Trader, Brian W., Ph.D., Virginia Tech, Coordinator of Domestic and International Studies, Longwood Gardens, C  
Vaughn, Kevin C., Ph.D., Miami University, Plant Physiologist, USDA-ARS, C  
Wall, Gerald W., Ph.D., Kansas State University, Plant Physiologist, C  
Warburton, Marilyn Louise, Ph.D., University of California, Davis, Research Geneticist USDA-ARS, C  
Wesley, Richard A., M.S., Clemson University, Agricultural Engineer, USDA-ARS, C  
Westbrooks, Randy G., Ph.D., North Carolina State University, Invasive Plant Coordinator, C  
Willers, Jeffrey L., Ph.D., Mississippi State University, Research Entomologist, USDA-ARS, C  
Williams, W. Paul, Ph.D., North Carolina State University, Supervisory Research Geneticist and Leader, USDA-ARS Corn Host Plant Resistance Research Unit, C  
Wixson, Marshall B., Ph.D., Mississippi State University, Manager, Product Development, Helm Agro US, Inc., C  
Wubben, Martin J., Ph.D., Iowa State University, Research Molecular Geneticist, USDA-ARS, C  

Poultry Science  
**Level 1**  
Corzo, Alejandro, Ph.D., Auburn University, Associate Research Professor  
McDaniel, Christopher D., Ph.D., University of Georgia, Professor and Graduate Coordinator  
Peebles, E. David, Ph.D., North Carolina State University, Interim Department Head and Professor  

**Level 2**  
Chamblee, Timothy, Ph.D., Mississippi State University, Director, Office of Institutional Research and Effectiveness and Associate Professor  
Kiess, Aaron S., Ph.D., West Virginia University, Assistant Professor  

Sharma, Chander Shekhar, Ph.D., University of Florida, Assistant Professor  
Zhai, Wei, Ph.D., Purdue University, Assistant Extension/Research Professor  
  
**Participant (T=Teach; C=Committee Member)**  
Branton, Scott L., Ph.D., Mississippi State University, Veterinary Medical Officer, C  
Collier, Stephanie D., Ph.D., Mississippi State University, Biologist, USDA-ARS, C  
Dozier, W. A., III, Ph.D. Auburn University, Research Animal Scientist, C  
Evans, Jeff D., Ph.D., University of Georgia; Molecular Biologist, USDA-ARS, C  
Hargis, Phillip H., Ph.D., Texas A&M University, Poultry Nutritionist, C  
Kidd, Michael T., Ph.D., North Carolina State University, Director of Center of Excellence for Poultry Science and Department Head, University of Arkansas, C  
Leigh, Spencer A., Ph.D., University of Missouri, Research Microbiologist, USDA-ARS, C  
Lott, Berry D., Ph.D., Mississippi State University, Research Animal Scientist, C  
Olanrewaju, Hammed A., Ph.D., University of Wisconsin, Research Scientist, USDA, C  
Purswell, Joseph L., Ph.D., University of Kentucky, Agricultural Engineer, USDA, C  
Rosen, Gordon D., Ph.D., University of Liverpool, Biochemist, C  
Sadler, C. Reagan, Ph.D., Auburn University, Laboratory Director & Chief Poultry Pathologist, C  
Scanes, Colin G., Ph.D., University of Wales, D.Sc., Hull University (U.K.), Professor, University of Wisconsin, C  
Vizzler-Thaxton, Yvonne, Ph.D., Auburn University, Professor (Retired), T, C

**COLLEGE OF ARCHITECTURE, ART, AND DESIGN**  
**School of Architecture**  
**Level 1**  
Berk, Michael A., R.A., M.Arch, University of Florida, Director of School of Architecture and F. L. Crane Professor  
Lewis, David C., R.A., Ph.D., Georgia Institute of Technology, Associate Dean of College of Architecture, Art, and Design, Professor  
McCann, Rachel E., R.A., Ph.D., Architectural Association School of Architecture-London, Professor  
Perkes, David, R.A., M. Arch., Yale University, Associate Professor  
West, James L., R.A., M.Arch., University of Florida, Dean of College of Architecture, Art, and Design, Professor  

**Level 2**  
Callender, Jassen, M.F.A., University of Minnesota, Associate Professor  
Greenwood, Jane, M.Arch., Virginia Polytechnic Institute and State University, Associate Professor
<table>
<thead>
<tr>
<th>Participant (T=Teach; C=Committee Member)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hermann, Hans C., R.A., M.Arch., Clemson University, Assistant Professor</td>
</tr>
<tr>
<td>Poros, John, R.A., M.Arch., Harvard University, Associate Professor</td>
</tr>
<tr>
<td>Taylor, Justin, M.S., Mississippi State University, Assistant Professor</td>
</tr>
<tr>
<td>Watson, Gregory J., M.Arch., Washington University School of Architecture, Associate Professor</td>
</tr>
<tr>
<td>Cosper, Christopher L., R.A., M.A., Mississippi State University, Lecturer, C, T</td>
</tr>
<tr>
<td>Art Level 2</td>
</tr>
<tr>
<td>Funderburk, T. Brent, M.F.A., East Carolina University, Professor</td>
</tr>
<tr>
<td>Gootee, Marita, M.F.A., Indiana University, Professor</td>
</tr>
<tr>
<td>Harvey, Benjamin, Ph.D., University of North Carolina, Associate Professor</td>
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<tr>
<td>Haupt, Jeffrey, M.F.A., Indiana University, Professor</td>
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<tr>
<td>Long, Robert J., M.F.A., Clemson University, Professor</td>
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<tr>
<td>McCourt, Tim, M.F.A., University of Southern California, Professor</td>
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<tr>
<td>Mixon, Jamie B., B.A., Mississippi State University, Professor</td>
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<tr>
<td>Ngoh, Soon Ee, M.A., University of Massachusetts, Associate Professor</td>
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<tr>
<td>Seckinger, Linda K., M.F.A., Arizona State University, Professor</td>
</tr>
<tr>
<td>Biological Sciences Level 1</td>
</tr>
<tr>
<td>Brooks, Christopher P., Ph.D., The University of North Carolina at Chapel Hill, Assistant Professor</td>
</tr>
<tr>
<td>Chen, Jiguo, Ph.D., Osaka University, Assistant Professor</td>
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<tr>
<td>Chevalier, David, Ph.D., University of Zurich (Switzerland), Assistant Professor</td>
</tr>
<tr>
<td>Coats, Karen, Ph.D., Louisiana State University, Interim Associate Dean of the Graduate School and Professor</td>
</tr>
<tr>
<td>Counterman, Brian A., Ph.D., Duke University, Assistant Professor</td>
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<tr>
<td>Diehl, Walter J., Ph.D., University of South Florida, Associate Dean for Research and Graduate Studies, College of Arts &amp; Sciences and Professor</td>
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<tr>
<td>Donaldson, Janet R., Ph.D., Mississippi State University, Assistant Professor</td>
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<tr>
<td>Ervin, Gary N., Ph.D., University of Alabama, Graduate Coordinator and Professor</td>
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<tr>
<td>Gordon, Donna M., Ph.D., University of Pennsylvania School of Medicine, Assistant Professor</td>
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<tr>
<td>Klink, Vincent, Ph.D., The University of Maryland, Assistant Professor</td>
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<tr>
<td>Munn, Giselle, Ph.D., University of Kansas, Associate Professor</td>
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<tr>
<td>Outlaw, Diana C., Ph.D., University of Memphis, Assistant Professor</td>
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<tr>
<td>Reichert, Nancy A., Ph.D., New Mexico State University, Professor and Department Head</td>
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<tr>
<td>Thornton, Justin A., Ph.D., University of Mississippi Medical Center, Assistant Professor</td>
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<tr>
<td>Wallace, Lisa, Ph.D., Ohio State University, Assistant Professor</td>
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<tr>
<td>Welch, Mark E., Ph.D., Indiana University, Assistant Professor</td>
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<tr>
<td>Wise, Dwayne A., Ph.D., Florida State University, Professor</td>
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<tr>
<td>Chemistry Level 1</td>
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<tr>
<td>Emerson, Joseph P., Ph.D., University of Georgia, Assistant Professor</td>
</tr>
<tr>
<td>Fitzkee, Nicholas C., Ph.D., Johns Hopkins University, Assistant Professor</td>
</tr>
</tbody>
</table>
Foster, Stephen C., Ph.D., Dalhousie University, Associate Professor and Graduate Coordinator
Gwaltney, Steven, Ph.D., University of Florida, Associate Professor
Henry, William P., Ph.D., University of Nebraska-Lincoln, Associate Professor
Lewis, Edwin A., Ph.D., University of New Mexico, Professor and Department Head
Mead, Keith T., Ph.D., Southampton University, Professor
Milsna, Todd E., Ph.D., University of Texas at Austin, Associate Professor
Rabideau, Peter W., Ph.D., Case Western Reserve University, Professor
Rowland, Gerald, Ph.D., Ph.D., University of South Florida, Assistant Professor
Saebo, Svein, Ph.D., University of Tromso (Norway), Professor
Sygula, Andrzej, Ph.D., Jagiellonian University, Associate Professor
Wipf, David, Ph.D., Indiana University, Professor
Zhang, Dongmao, Ph.D., Purdue University, Assistant Professor
Beard, Debbie J., Ph.D., Mississippi State University, Assistant Research Professor
Wilson, W. William, Ph.D., University of North Carolina, Adjunct Professor
Armbrust, Kevin L., Ph.D., University of California at Davis, Director, Mississippi State Chemical Laboratory and Associate Professor
Rodriguez, Jose M., Ph.D., University of Idaho, Director, Petroleum Products, MS State Chemical Lab and Assistant Research Professor
Frith, Jonathan R., Ph.D., University of Minnesota, Instructor, T, C
Graves, David E., Ph.D., University of Alabama at Birmingham, Professor and Chair, University of Alabama-Birmingham, C
Li, Tingyu, Ph.D., Harvard University, Program Director, Division of Chemistry, National Science Foundation, C
Merchant, Mark E., Ph.D., Texas A&M University, Professor, McNeese State University, C
Pittman, Charles U., Jr., Ph.D., Pennsylvania State University, Professor Emeritus, C
Wellman, Susan E., Ph.D., Florida State University, Professor, University of Mississippi Medical Center, C
Xia, Kang, Ph.D., University of Wisconsin-Madison, Associate Professor, Virginia Tech, C

Classical and Modern Languages and Literature
Harland, Robert J. E., Ph.D. University of Wales, Associate Professor and Graduate Coordinator-Fall 2011 (Spanish)

Jordan, Jack, Ph.D., University of Virginia, Professor and Department Head (French)
Potter, Edward T., Ph.D., University of North Carolina at Chapel Hill, Associate Professor and Graduate Coordinator (German)
Wolverton, Robert E., Ph.D., University of North Carolina, Professor (Classics)

Level 2
Barrantes-Martín, Beatriz, Ph.D., Arizona State University; Ph.D., University of Valladolid (Spain), Assistant Professor (Spanish)
Espinosa, Carlos D., Ph.D., Florida International University, Assistant Professor (Spanish)
Gray, Sally H., Ph.D., University of North Carolina at Chapel Hill, Assistant Professor (German)
Khan, Salah J., Ph.D., University of California, Irvine, Assistant Professor (French)
Moser, Keith A., Ph.D., University of Tennessee, Assistant Professor (French)

Communication
Flick, Harry Albert, II, Ph.D., Southern Illinois University, Professor
Foley, Megan K., Ph.D., University of Iowa, Assistant Professor
Forde, John E., Ph.D., University of Southern Mississippi, Associate Professor and Department Head
Goodman, Mark, Ph.D., University of Missouri at Columbia, Professor
Nicholson, John H., Ph.D., University of Iowa, Assistant Professor
Roussin, Wendy K., M.F.A., Indiana State University, Assistant Professor
Smith, Glen D., Ph.D., The University of Southern Mississippi, Assistant Professor
Strout, Lawrence N., Ph.D., Florida State University, Associate Professor
Walton, Laura R., Ph.D., University of Southern Mississippi, Assistant Professor
Williams, Kevin D., Ph.D., University of Georgia, Assistant Professor

English
Anderson, Thomas P., Ph.D., Vanderbilt University, Associate Professor
Bentley, Gregory W., Ph.D., University of California–Davis, Associate Professor
Creevy, Patrick J., Ph.D., Harvard University, Professor
Dodds, Lara A., Ph.D., Brown University, Associate Professor
Hagenston, Becky, M.F.A., New Mexico State University, Associate Professor
Hanshaw, Shirley A. J., Ph.D., The University of Mississippi, Associate Professor
Johnston, Holly, Ph.D., University of North Carolina at Chapel Hill, Associate Professor
Lyons, Richard, Ph.D., University of Houston, Professor
Marsh, Kelly, Ph.D., The Pennsylvania State University, Associate Professor
Myers, Gary, Ph.D., University of Houston, Professor and Dean of Arts and Sciences
Raymond, Richard, Ph.D., Miami University, Professor and Department Head
West, Robert M., Ph.D., University of North Carolina at Chapel Hill, Associate Professor

Level 2
Atkinson, Theodore B., Ph.D., Louisiana State University, Assistant Professor
Claggett, Shalyn R., Ph.D., Vanderbilt University, Assistant Professor
DeGabriele, Peter, PhD., University at Buffalo-SUNY, Assistant Professor
Fogle, Evelyn Wright, Ph.D., Georgetown University, Visiting Assistant Professor
Kardos, Michael P., Ph.D., University of Missouri, Assistant Professor
Kelley, James B., Ph.D., University of Tulsa, Associate Professor, Meridian Campus
Little, Matthew W., Ph.D., University of Chicago, Associate Professor
O’Donnell, Tennyson, Ph.D., Syracuse University, Assistant Professor
O’Neill, Bonnie C., Ph.D., Washington University in St. Louis, Assistant Professor
Pierce, Catherine, Ph.D., University of Missouri, Assistant Professor of English
Pizer, Ginger B., Ph.D., University of Texas at Austin, Assistant Professor
Shaffer, Donald M., Ph.D., University of Chicago, Assistant Professor

Participant (T=Teach; C=Committee Member)
Torbert, Benjamin, Ph.D., Duke University, Assistant Professor, University of Missouri, C

Geosciences
Level 1
Ambinakudige, Shrinidhi S, Ph.D., Florida State University, Assistant Professor
Brown, Michael E., Ph.D., University of North Carolina-Chapel Hill, Associate Professor and Graduate Coordinator
Choi, Jinmu, Ph.D., University of Georgia, Assistant Professor
Clary, Renee M., Ph.D., Louisiana State University, Assistant Professor
Cooke, William H., III, Ph.D., Mississippi State University, Associate Professor
Dewey, Chris P., Ph.D., University of Newfoundland, Associate Professor
Dixon, P. Grady, Ph.D., Arizona State University, Assistant Professor

Level 2
Dyer, Jamie L., Ph.D., University of Georgia, Assistant Professor
Kirkland, Brenda L., Ph.D., Louisiana State University, Associate Professor
McNeal, Karen S., Ph.D., Texas A&M University, Assistant Professor
Mishra, Deepak R., Ph.D., University of Nebraska, Assistant Professor
Myroie, John E., Ph.D., Rensselaer Polytechnic Institute, Professor
Rodgers, John C, III, Ph.D., University of Georgia, Associate Professor
Schmitz, Darrel W., Ph.D., Texas A&M University, Professor and Department Head
Sherman-Morris, Kathleen, Ph.D., Florida State University, Assistant Professor
Wax, Charles L., Ph.D., Louisiana State University, Professor and State Climatologist

Level 2
Fitzpatrick, Patrick J., Ph.D., Colorado State University, Associate Research Professor
Grimes, Craig B., Ph.D., University of Wyoming, Assistant Professor
Mercer, Andrew E., Ph.D., University of Oklahoma, Assistant Professor
O’Hara, Charles G., Ph.D., University of Mississippi, Associate Research Professor
Samson, Scott A., Ph.D., University of Nebraska-Lincoln, Extension Professor

Associate
Binkley, Mark S., Ph.D., Indiana State University, Executive Director, Division of Academic Outreach and Continuing Education and Professor
Caputo, Mario V., Ph.D., University of Cincinnati, Professor, Mt. San Antonio College (CA), C
Croft, Paul, Ph.D., Rutgers University, Assistant Professor, University of South Alabama, C
Goodrich, Gregory B., Ph.D., Arizona State University, Assistant Professor, Western Kentucky University, C
Lee, Zhongping, Ph.D., University of South Florida, Research Professor, University of Massachusetts-Boston, C
May, James H., Ph.D., Texas A&M University, Lecturer, T
Miller, Dalton W., Jr., M.A., University of Mississippi, Instructor, T
Mostovoi, Gueorgui V., Ph.D., Moscow State University, Meteorologist, Stennis Space Center, C
Pashin, Jack C., Ph.D., University of Kentucky, Manager, Energy and Minerals Unit, Geological Survey of Alabama, C
Phipps, Scott Warren, Ph.D., Mississippi State University, Research Coordinator, Weeks Bay National Estuarine Research Reserve, C
Simms, Janet E., Ph.D., Texas A&M University, Research Geophysicist, U.S. Army Engineer Waterways Experiment Station, C
Vandeweghe, Reynold, M.S., Mississippi State University, Instructor, T
Veeramony, Jayaram, Ph.D., University of Delaware, Civil Engineer, Stennis Space Center, C
Wallace, Robert M., Ph.D., Purdue University, Division Chief/Supervisory Civil Engineer, US Army Engineer R&D Center, T, C

History

Level 1
Barbier, M. Kathryn, Ph.D., University of Southern Mississippi, Associate Professor
Brain, Stephen C., Ph.D., University of California, Berkeley, Assistant Professor
Damms, Richard V., Ph.D., The Ohio State University, Associate Professor
Giesen, James C., Ph.D., University of Georgia, Assistant Professor
Greene, Alison Collins, Ph.D., Yale University, Assistant Professor
Hay, William Anthony, Ph.D., Yale University, Assistant Professor
Hersey, Mark D., Ph.D., University of Kansas, Assistant Professor
Hui, Alexandra E., Ph.D., University of California at Los Angeles, Assistant Professor
Lavine, Matthew B., Ph.D., University of Wisconsin-Madison, Assistant Professor
Marcus, Alan L., Ph.D., University of Cincinnati, Professor and Department Head
Marshall, Anne E., Ph.D., University of Georgia, Assistant Professor
Martucci, Jessica, Ph.D., University of Pennsylvania, Assistant Professor
Messer, Peter C., Ph.D., Rutgers University, Associate Professor and Graduate Coordinator
Middleton, Stephen, Ph.D., Miami University, Professor and Director of African American Studies
Mitchell, Dennis, Ph.D., University of Mississippi, Professor and Interim Dean, MSU-Meridian
Osman, Julia, Ph.D., University of North Carolina, Chapel Hill, Assistant Professor
Phillips, Jason K., Ph.D., Rice University, Associate Professor
Ridner, Judith A., Ph.D., College of William and Mary, Associate Professor
Uzoigwe, Godfrey N., D.Phil., Oxford University, England, Professor
Ward, Jason M., Ph.D., Yale University, Assistant Professor
Williams, Michael V., Ph.D., University of Mississippi, Assistant Professor
Wu, Shu-Hui, Ph.D., Free University of Berlin, Associate Professor

Participant (T=Teach; C=Committee Member)
Evans, Sterling, Ph.D., University of Kansas, Professor and Louise Welsh Chair in Oklahoma, Southern Plains, and Borderlands History, University of Oklahoma
Grill, Johnpeter H., Ph.D., University of Michigan, Professor Emeritus, C

Mathematics and Statistics

Level 1
Dang, Dinh H., Ph.D., HoChiMinh City University, Professor (Mathematics)
Dobson, Edward T., Ph.D., Louisiana State University, Professor (Mathematics)
Ebanks, Bruce R., Ph.D., University of Waterloo, Professor (Mathematics)
Johnson, Corlis P., Ph.D., Emory University, Associate Professor (Mathematics); Associate Department Head; Graduate Coordinator
Kim, Seongjai, Ph.D., Purdue University, Associate Professor (Mathematics)
Lim, Hyeona, Ph.D., Michigan State University, Associate Professor (Mathematics)
Lu, Qijie, Ph.D., The University of Georgia, Associate Professor (Statistics)
Miller, T. Len, Ph.D., Virginia Polytechnic Institute and State University, Professor (Mathematics)
Miller, Vivien G., Ph.D., Mississippi State University, Professor (Mathematics)
Neumann, Michael M., Ph.D., University of Saarbrucken (Germany) Professor (Mathematics)
Oppenheimer, Seth F., Ph.D., University of Texas at Austin, Professor (Mathematics)
Qi, Chuanxi, Ph.D., University of Rhode Island, Professor (Mathematics)
Razzaghi, Mohsen, Ph.D., University of Sussex (England), Professor (Mathematics) and Department Head
Shivaji, Ratnasingham, Ph.D., Heriot-Watt University, Edinburgh (Scotland), Professor (Mathematics)
Xu, Xiangsheng, Ph.D., University of Texas at Austin, Professor (Mathematics)
Zheng, Haimeng, Ph.D., University of Southern California, Associate Professor (Statistics)

Level 2
DuBien, Janice, Ph.D., Oklahoma State University, Associate Professor (Statistics)
Fabel, Paul, Ph.D., University of Texas at Austin, Associate Professor (Mathematics)
Shows, Justin H., Ph.D., North Carolina State University, Assistant Professor (Statistics)
Smith, Robert C., Ph.D., University of Arkansas, Associate Professor (Mathematics)
Yang, Xingzhou, Ph.D., North Carolina State University, Assistant Professor (Mathematics)
Yarahmadian, Shantia, Ph.D., Indiana University-Bloomington, Assistant Professor (Mathematics)
Zhao, Meng, Ph.D., Clemson University, Assistant Professor (Statistics)

Participant (T=Teach; C=Committee Member)
Fahey, Mark R., Ph.D., University of Kentucky, Computational Scientist, C
Harvill, Jane L., Ph.D., Texas A&M University, Associate Professor (Statistics), Baylor University, C
Pearson, J. Michael, Ph.D., University of Texas at Austin, Associate Executive Director, Mathematical Association of America, C

**Philosophy and Religion**

**Level 1**
Bickle, John, Ph.D., University of California, Irvine, Professor and Department Head
Edelmann, Jonathan B., Ph.D., University of Minnesota, Assistant Professor
Estes, Yolanda, Ph.D., University of Kentucky, Associate Professor
Holt, D. Lynn, Ph.D., Vanderbilt University, Professor
Moffatt, Barton, Ph.D., University of Minnesota, Assistant Professor
Phillips, Trisha B., Ph.D., Rice University, Assistant Professor
Thompson, James Robert, Ph.D., Washington University, Assistant Professor

**Physics and Astronomy**

**Level 1**
Afasajevs, Anatolij, Ph.D., Latvian Academy of Sciences; Ph.D., Latvian State University, Professor
Arnoldus, Hendrik F., Ph.D., Utrecht University, Associate Professor
Berg, Matthew J., Ph.D., Kansas State University, Assistant Professor
Clay, R. Torsten, Ph.D., University of Illinois, Associate Professor
Dunne, James A., Ph.D., The American University, Professor
Dutta, Dipangkar, Ph.D., Northwestern University, Assistant Professor
Kim, Seong-gon, Ph.D., Michigan State University, Associate Professor
Krishnan, Sundar Rajan, Ph.D., University of Alabama, Assistant Professor
Lindner, Jeffrey S., Ph.D., Mississippi State University, Research Professor
Ma, Wenchao, Ph.D., Vanderbilt University, Professor
Monts, David L., Ph.D., Columbia University, Professor and Graduate Coordinator
Novotny, Mark A., Ph.D., Stanford University, Professor and Department Head
Pierce, Donna M., Ph.D., University of Maryland, Assistant Professor
Rupak Lan Tai Moong, Gautam, Ph.D., University of Washington, Assistant Professor
Singh, Jagdish P., Ph.D., Banaras Hindu University, Research Professor
Su, Chun Fu, Ph.D., University of New Orleans, Professor
Su, Yi, Ph.D., Wayne State University, Research Professor
Tanner, Angelle M., Ph.D., UCLA, Assistant Professor

**Level 2**
Clifford, Michael R., Ph.D., Vanderbilt University, Professor
Estes, Yolanda, Ph.D., University of Kentucky, Associate Professor
Holt, D. Lynn, Ph.D., Vanderbilt University, Professor
Moffatt, Barton, Ph.D., University of Minnesota, Assistant Professor
Phillips, Trisha B., Ph.D., Rice University, Assistant Professor
Thompson, James Robert, Ph.D., Washington University, Assistant Professor

**Political Science and Public Administration**

**Level 1**
Ainuon, Kweku, Ph.D., Clemson University, Assistant Professor
Buchanan, Robert J., Ph.D., University of Virginia, Professor
Cavanaugh, Jeffrey M., Ph.D., University of Illinois, Urbana-Champaign, Assistant Professor
Emison, Gerald A., Ph.D., University of North Carolina at Chapel Hill, Associate Professor
French, P. Edward, Ph.D., Mississippi State University, Assistant Professor
McThomas, Mary, Ph.D., University of California, Los Angeles, Assistant Professor
Morrison, Minion K. C., Ph.D., University of Wisconsin-Madison, Professor and Department Head, Senior Fellow in African American Studies
Patrick, Barbara A., Ph.D., Mississippi State University, Assistant Professor
Radin, Dagmar, Ph.D., University of North Texas, Assistant Professor
Shaffer, Stephen D., Ph.D., Ohio State University, Professor
Shoup, Brian D., Ph.D., Indiana University, Assistant Professor
Stanislevski, Dragan, Ph.D., Florida Atlantic University, Assistant Professor
Stich, Bethany, Ph.D., Virginia Polytechnic Institute and State University, Assistant Professor
Travis, Rickey, Ph.D., University of Georgia, Associate Professor

**Level 2**
Mellen, Robbin B., Ph.D., Washington State University, Assistant Professor
Wiseman, William M., Ph.D., Mississippi State University, Professor

**Participant (T=Teach; C=Committee Member)**
Adams, Joe, Ph.D., Vanderbilt University, Research Coordinator, Public Affairs Research Council of Alabama, T
Orgeron, Craig P., Ph.D., Mississippi State University, Director of Strategic Services Div, MS Department of Information Technology Services, C, T
Miller, Chad R., Ph.D., Virginia Polytechnic & State University, Assistant Professor, University of Southern Mississippi, C
Psychology

**Level 1**

- Adams-Price, Carolyn E., Ph.D., West Virginia University, Associate Professor
- Armstrong, Kevin J., Ph.D., Illinois Institute of Technology, Associate Professor
- Bradshaw, Gary L., Ph.D., Carnegie-Mellon University, Professor
- Carskadon, Thomas G., Ph.D., University of Colorado, Professor
- Doane, Stephanie M., Ph.D., University of California, Professor
- Eakin, Deborah K., Ph.D., University of Kansas, Associate Professor and Graduate Coordinator
- Giesen, J. Martin, Ph.D., Kent State University, Professor
- Keeley, Jared W., Ph.D., Auburn University, Assistant Professor
- McKinney, Cliff, Ph.D., University of Central Florida, Assistant Professor
- McMillen, Robert, Ph.D., University of Georgia, Assistant Professor
- Moss, Jarrod, Ph.D., Carnegie Mellon University, Assistant Professor
- Sinclair, H. Colleen, Ph.D., University of Minnesota, Assistant Professor
- Swan, J. Edward, II, Ph.D., The Ohio State University, Assistant Professor
- Williams, Carrick C., Ph.D., Michigan State University, Assistant Professor

**Level 2**

- Garrison, Teena M., Ph.D., Mississippi State University, Assistant Research Professor
- Klein, Stephen B., Ph.D., Rutgers University, Professor
- McMillen, David L., Ph.D., University of Texas, Professor
- Drumheller, Philip, Ph.D., University of Mississippi, Instructor, T, C
- McFadyen, Gary M., Ph.D., Texas A&M University, Assistant Research Professor, C

Sociology

**Level 1**

- Boyd, Robert L., Ph.D., University of North Carolina-Chapel Hill, Associate Professor
- Brauner-Otto, Sarah R., Ph.D., University of Michigan, Assistant Professor
- Cosby, Arthur G., Ph.D., Mississippi State University, Giles Distinguished Professor; Director, Social Science Research Center (SSRC)
- Cosman, Lynne, Ph.D., Florida State University, Professor
- Dunaway, R. Gregory, Ph.D., University of Cincinnati, Interim Associate Dean of College of Arts and Sciences and Professor
- Haynes, Stacy H., Ph.D., Pennsylvania State University, Assistant Professor
- Hughey, Matthew W., Ph.D., University of Virginia, Assistant Professor

**Level 2**

- Chi, Guangqing, Ph.D., University of Wisconsin-Madison, Assistant Professor
- Cruden, Adele, Ph.D., Mississippi State University, Associate Professor
- Ragsdale, Kathleen, Ph.D., University of Florida, Assistant Research Professor
- Swindell, Marian L., Ph.D., University of Alabama, Associate Professor (Meridian)
- Weiss, Harald E., Ph.D., Ohio State University, Assistant Professor

**Participant (T=Teach; C=Committee Member)**

- Xu, Xiaohu, Ph.D., University of Michigan, Professor, University of Texas at San Antonio, C

COLLEGE OF BUSINESS

Adkerson School of Accountancy

**Level 1**

- Addy, Noel D., C.P.A., Ph.D., University of Florida, Associate Professor
- Dawkins, Louis, C.P.A., Ph.D., University of Arkansas, Professor
- McNair, Frances, C.P.A., Ph.D., University of Mississippi, Professor
- Rigsby, John T., C.P.A., D.B.A., Memphis State University, Associate Professor
- Scheiner, James H., Ph.D., Ohio State University, Professor and Director, Adkerson School of Accountancy
- Watson, Marcia L., Ph.D., University of Texas, Associate Professor

**Level 2**

- Carver, Brian T., Ph.D., University of Tennessee, Assistant Professor
- Henderson, Charlene, Ph.D., Arizona State University, Assistant Professor
- Usrey, Spencer C., C.P.A., Ph.D., University of Alabama, Assistant Professor
- Webb, Thomas Z., Ph.D., University of Arkansas-Fayetteville, Assistant Professor

**Participant (T=Teach; C=Committee Member)**

- Allen, Paul W., D.B.A., Mississippi State University, Professor Emeritus, T

Finance and Economics

**Level 1**

- Campbell, Randall C., Ph.D., Louisiana State University, Associate Professor (Economics)
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree, Institution, Position</th>
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<tbody>
<tr>
<td>Highfield, Michael J.</td>
<td>Ph.D., CFA, University of Kentucky, Associate Professor (Finance)</td>
</tr>
<tr>
<td>Liano, Kartono, Ph.D.</td>
<td>The University of Alabama, Professor (Finance)</td>
</tr>
<tr>
<td>Millea, Meghan J.</td>
<td>Ph.D., University of Nebraska-Lincoln, Professor (Economics)</td>
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<tr>
<td>Miller, Thomas W., Jr.</td>
<td>Ph.D., University of Washington, Professor (Finance) and Jack R. Lee Chair of Financial Institutions and Consumer Finance</td>
</tr>
<tr>
<td>Rezek, Jon, Ph.D.</td>
<td>University of Nebraska-Lincoln, Associate Professor (Economics) and Interim Director, International Business Academic Program</td>
</tr>
<tr>
<td>Rogers, Kevin E.</td>
<td>Ph.D., University of Georgia, Professor (Economics) and Interim Associate Dean of Business</td>
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<td>Roskelley, Kenneth D.</td>
<td>Ph.D., University of Arizona, Associate Professor (Finance)</td>
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<tr>
<td>Thomas, M. Kathleen</td>
<td>Ph.D., Georgia State University, Associate Professor (Economics)</td>
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<tr>
<td>Cline, Brandon N.</td>
<td>Ph.D., University of Alabama, Assistant Professor (Finance)</td>
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<tr>
<td>Cossman, Ronald E.</td>
<td>Ph.D., University of Colorado, Associate Research Professor</td>
</tr>
<tr>
<td>Orozco-Aleman, Sandra L.</td>
<td>University of Pittsburgh, Assistant Professor (Economics)</td>
</tr>
<tr>
<td>Wade, Lloyd R., III</td>
<td>University of Mississippi, Assistant Professor (Insurance)</td>
</tr>
<tr>
<td>Young, Brian E.</td>
<td>Ph.D., Arizona State University, Assistant Professor (Finance)</td>
</tr>
<tr>
<td>He, Wei (Helena)</td>
<td>Ph.D., University of New Orleans, Instructor (Finance), T</td>
</tr>
<tr>
<td>Lach, Patrick A.</td>
<td>Ph.D., CFP, Mississippi State University, Assistant Professor (Finance), Eastern Illinois University, C</td>
</tr>
<tr>
<td>Lehman, Mark W.</td>
<td>CPA, Ph.D., University of Mississippi, Associate Professor (retired), T, C</td>
</tr>
<tr>
<td>Smith, Rebecca C.</td>
<td>Ph.D., Louisiana State University, Lecturer and Interim Director of the Center of Economic Education and Financial Literacy, T</td>
</tr>
<tr>
<td>Barnett, Timothy R.</td>
<td>D.B.A., Mississippi State University, Professor (Management)</td>
</tr>
<tr>
<td>Chrisman, James J.</td>
<td>Ph.D., University of Georgia, Professor (Management)</td>
</tr>
<tr>
<td>Holt, Daniel T.</td>
<td>Ph.D., Auburn University, Assistant Professor (Management)</td>
</tr>
<tr>
<td>Long, Rebecca G.</td>
<td>Ph.D., Louisiana State University, Associate Professor (Management)</td>
</tr>
<tr>
<td>Oswald, Sharon L.</td>
<td>Ph.D., University of Alabama, Dean and Professor</td>
</tr>
<tr>
<td>Otondo, Robert F.</td>
<td>Ph.D., Arizona State University, Assistant Professor (Management)</td>
</tr>
<tr>
<td>Pearson, Allison W.</td>
<td>Ph.D., Auburn University, Professor (Management)</td>
</tr>
<tr>
<td>Pearson, Rodney A.</td>
<td>D.B.A., Harvard University, Professor (Information Systems)</td>
</tr>
<tr>
<td>Shim, Jung P.</td>
<td>Ph.D., University of Nebraska-Lincoln, Professor and Doctoral Coordinator (Information Systems)</td>
</tr>
<tr>
<td>Shim, Seungjae</td>
<td>Ph.D., University of Pittsburgh, Ph.D., Mississippi State University, Associate Professor, and Interim Associate Dean, MSU-Meridian</td>
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<tr>
<td>Spencer, Barbara A.</td>
<td>Ph.D., Virginia Polytechnic Institute and State University, Professor (Management)</td>
</tr>
<tr>
<td>Taylor, G. Stephen</td>
<td>Ph.D., Virginia Polytechnic Institute and State University, Professor (Management)</td>
</tr>
<tr>
<td>Warkentin, Merrill D.</td>
<td>Ph.D., University of Nebraska-Lincoln, Professor (Information Systems)</td>
</tr>
<tr>
<td>Maret, Kent</td>
<td>Ph.D., Florida State University, Assistant Professor (Information Systems)</td>
</tr>
<tr>
<td>Marler, Laura E.</td>
<td>D.B.A., Louisiana Tech University, Assistant Professor (Management)</td>
</tr>
<tr>
<td>Sainsbury, Robert H.</td>
<td>Ph.D., Georgia State University, Assistant Professor (Information Systems)</td>
</tr>
<tr>
<td>Shaw, John C.</td>
<td>Ph.D., University of Florida, Assistant Professor (Management)</td>
</tr>
<tr>
<td>Templeton, Gary F.</td>
<td>Ph.D., Auburn University, Associate Professor (Information Systems)</td>
</tr>
<tr>
<td>Vardaman, James M.</td>
<td>Ph.D., University of Memphis, Assistant Professor (Management)</td>
</tr>
<tr>
<td>Webster, Cynthia</td>
<td>Ph.D., University of North Texas, Professor (Marketing)</td>
</tr>
<tr>
<td>Lueg, Jason E.</td>
<td>Ph.D., University of Alabama, Associate Professor (Marketing) and Department Head</td>
</tr>
<tr>
<td>Moore, Melissa</td>
<td>Ph.D., University of Connecticut, Professor (Marketing)</td>
</tr>
<tr>
<td>Ponder, Nicole</td>
<td>Ph.D., University of Alabama, Associate Professor (Marketing)</td>
</tr>
<tr>
<td>Taylor, Ronald D.</td>
<td>Ph.D., University of North Texas, Professor (Marketing)</td>
</tr>
<tr>
<td>Chakrabarty, Subhra</td>
<td>D.B.A., Louisiana Tech University, Associate Professor (Marketing)</td>
</tr>
<tr>
<td>Collier, Joel E.</td>
<td>Ph.D., University of Memphis, Assistant Professor (Marketing)</td>
</tr>
<tr>
<td>Liddell, Gloria J.</td>
<td>J.D., Howard University School of Law, Assistant Professor (Business Law)</td>
</tr>
<tr>
<td>Liddell, Pearson, Jr.</td>
<td>J.D., Howard University School of Law, Professor (Business Law)</td>
</tr>
<tr>
<td>Moore, Robert S.</td>
<td>Ph.D., University of Connecticut, Professor (Marketing)</td>
</tr>
<tr>
<td>Shanahan, Kevin J.</td>
<td>Ph.D., New Mexico State University, Associate Professor (Marketing)</td>
</tr>
</tbody>
</table>
Sullivan, Joe, Ph.D., University of Alabama, Professor (Quantitative Analysis)
Tahai, Alireza, Ph.D., Arizona State University, Professor (Quantitative Analysis)

**Participant (T=Teach; C=Committee Member)**
Gaskin, Keith, M.P.P.A., Mississippi State University, Senior Director of Development, T

**College of Education**

**Counseling and Educational Psychology**

**Level 1**
Cavanaugh, Brenda S., Ph.D., Mississippi State University, Research Professor
Doggert, Richard A., Ph.D., University of Southern Mississippi, Associate Professor
Dooley, Katherine, Ph.D., University of Alabama, Professor
Elder, Anastasia D., Ph.D., University of Michigan, Associate Professor
Hall, Kimberly Renee, Ph.D., Mississippi State University, Assistant Professor
Henington, Carlen, Ph.D., Texas A & M University, Associate Professor
Looby, Eugenie J., Ph.D., University of Georgia, Professor
Morse, Linda W., Ph.D., Florida State University, Professor
Palmer, Charles D., Ph.D., University of Arkansas, Associate Professor
Porter, Julia Y., Ph.D., Louisiana State University, Associate Professor
Sheperis, Carl, Ph.D., University of Florida, Associate Professor
Watson, Joshua C., Ph.D., University of North Carolina at Greensboro, Assistant Professor
Wong, Daniel W., Ph.D., University of Northern Colorado, Department Head and Professor
Woyn, Darren A., Ph.D., Iowa State University, Associate Professor

**Level 2**
Abraham, Jimmy W., Ph.D., University of Mississippi, Assistant Professor
Bailey, E. Ann, Ph.D., Mississippi State University, Assistant Professor
Goldberg, Rebecca M., Ph.D., University of Florida, Assistant Professor
Heiselt, April K., Ph.D., University of Utah, Assistant Professor
Jackson, Deborah L., Ph.D., Mississippi State University, Assistant Professor

Justice, Cheryl A., Ph.D., University of Mississippi, Assistant Professor
McClean, Tawny E., Ph.D., Mississippi State University, Assistant Professor
Reisener, Carmen D., Ph.D., University of Southern Mississippi, Assistant Professor
Thomas, George M., Ed.D., University of Alabama, Professor and Head of Division of Education, MSU-Meridian
Wolverton, Robert E., Jr., Ed.D., Mississippi State University, Associate Professor

**Associate Dean for Research and Assessment and Professor**
Bourgeois, Thomas, Ph.D., Mississippi State University, Dean of Students

**Participant (T=Teach; C=Committee Member)**
Gainer, Donna Carol, Ph.D., University of Tennessee, Instructor, T, C
LeLune, B.J., M.Ed., Director, Deafblind Programs/Senior Research Associate, Rehabilitation Research and Training Center on Blindness and Low Vision, T
Olivieri, Kathleen, Ph.D., Mississippi State University, Lead IT Consultant, Information Tech Infrastructure, T
Satcher, James F., Ph.D., Mississippi State University, Professor, University of Alabama, C
Sparkman, Lavina B., Ph.D., Mississippi State University, Lecturer, T
Warren, Paula R., Ph.D., Mississippi State University, Lecturer, T
Wells, Debbie K., Ph.D., Mississippi State University, Lecturer, C, T

**Curriculum, Instruction, and Special Education**

**Level 1**
Brenner, Devon G., Ph.D., Michigan State University, Professor and Interim Department Head
Burroughs, Charlotte D., Ph.D., Mississippi State University, Professor
Coffey, Kenneth, Ed.D., University of Alabama, Professor
Devlin, Sandy D., Ed.D., University of Alabama, Professor
Franz, Dana P., Ph.D., Texas A&M University, Associate Professor
Hamil, Burnette, Ph.D., University of Southern Mississippi, Professor
Harper, Sallie L., Ph.D. The University of Alabama, Associate Professor
Hopper, Peggy F., Ph.D., University of Tennessee, Associate Professor
Jayroe, Teresa B., Ph.D., Mississippi State University, Professor and Director, Office of Clinical/Field-Based Instruction
Mccarva, Janet F., Ph.D., Mississippi State University, Assistant Professor
Morrison, Johnetta W., Ed.D., Syracuse University, Associate Professor
Pope, Margaret, Ph.D., Mississippi State University, Associate Professor
Ratliff, Lindon, Ph.D., University of Mississippi, Assistant Professor
Rosenblatt, Kara, Ph.D., University of Central Florida, Assistant Professor

Robichaux, Rebecca R., Ph.D., Auburn University, Associate Professor

Scholtes, Tina, Ph.D., Mississippi State University, Assistant Professor

Triplett, Kimberly M., Ph.D., Mississippi State University, Assistant Professor

Robichaux, Rebecca R., Ph.D., Auburn University, Associate Professor

Scholtes, Tina, Ph.D., Mississippi State University, Assistant Professor

Triplett, Kimberly M., Ph.D., Mississippi State University, Assistant Professor

Participant (T=Teach; C=Committee Member)

Blue, Donna Lisa, Ed.S., Mississippi State University, Lecturer, T

Miller, Nicole E., M.A., California State University-Northridge, T

Minchew, Sue, Ph.D., Mississippi State University, Associate Dean Emerita and Professor Emerita, C

Patterson, Kimberly J., Ph.D., Mississippi State University, Director, Mississippi Writing/Thinking Institute, C

Thompson, Nicole Torrence, Ph.D., The University of Georgia, Assistant Professor, University of Memphis, C

Waddell, Suzanne M., Ph.D., Lecturer, C

Instructional Systems and Workforce Development

Level 1

Adams, James H., Ed.D., Oklahoma State University, Associate Professor and Graduate Coordinator

Cornelious, Linda, Ph.D., Florida State University, Professor

Du, Jianxia, Ph.D., University of Illinois at Urbana-Champaign, Associate Professor

Forde, Connie, Ph.D., University of Mississippi, Professor and Department Head

Okojie, Mabel C.P.O., Ph.D., Ohio State University, Associate Professor

Olinzock, Anthony A., Ed.D., University of Pittsburgh, Professor

Wyatt, John E., Ph.D., Southampton Institute, Associate Professor

Xie, Kui, Ph.D., University of Oklahoma, Assistant Professor

Yu, Chien, Ph.D., Ohio State University, Associate Professor

Level 2

Beriswill, Joanne E., Ph.D., Indiana University, Assistant Professor

Bowen, Marilyn D., Ph.D., Mississippi State University, Associate Research Professor

Participant (T=Teach; C=Committee Member)

Abraham, Patti S., Ed.D., Lecturer, C

Berryhill, Amy H., Ph.D., Mississippi State University, Lead IT Consultant, User Services, T, C

Butler, Malinda B., Ph.D., Mississippi State University, Lecturer, T

Olivieri, Kathleen C., Ph.D., Mississippi State University, Lead IT Consultant, ITS, C, T

Parker, Robin, Ed.D., Mississippi State University, Assistant Research Professor, T, C

Sears, Janice, Ph.D., Mississippi State University, Lecturer, T

Wampler, Lynn B., Ph.D., Mississippi State University, Lecturer, T

Kinesiology

Level 1

Brown, Stanley P., Ph.D., University of Southern Mississippi, Professor and Department Head

Abadie, Ben, Ed.D., University of Southern Mississippi, Professor

Agiovlasitis, Stamatios, Ph.D., Oregon State University, Assistant Professor

Gilliland, Katherine J., P.E.D., Indiana University, Associate Professor

Hale, Brendon S., Ph.D., Indiana University-Bloomington, Assistant Professor

Kavazis, Andreas N., Ph.D., University of Florida, Assistant Professor

Knight, Adam C., Ph.D., Auburn University, Assistant Professor

Lamberth, John, Ph.D., University of Southern Mississippi, Associate Professor

Love, Adam W., Ph.D., University of Tennessee, Assistant Professor

Morse, Alan K., Ph.D., University of Northern Colorado, Assistant Professor

Vickers, John Bradley, Ph.D., University of Georgia, Assistant Professor

Wax, Benjamin, Jr., Ph.D., University of Mississippi, Assistant Professor

Webb, Heather E., Ph.D., University of Mississippi, Assistant Professor

Leadership and Foundations

Level 1

Blackbourn, Richard L., Ed.D., Mississippi State University, Dean of College of Education and Professor

Boggan, Matthew K., Ed.D., Nova Southeastern University, Associate Professor

Brocato, D. Kay, Ph.D., Mississippi State University, Associate Professor

Coats, Linda T., Ph.D., Mississippi State University, Associate Professor

Davis, James E., Ed.D., Mississippi State University, Associate Professor

Hare, R. Dwight, Ph.D., University of North Carolina-Chapel Hill, Professor and Graduate Coordinator

King, Stephanie B., Ph.D., Mississippi State University, Assistant Professor

Prince, Debra L., Ph.D., Mississippi State University, Associate Professor

Stumpf, Arthur D., Ph.D., University of Missouri-Columbia, Associate Professor

Williams, Frankie K., Ph.D., University of South Carolina, Department Head and Associate Professor

Xu, Jianzhong, Ed.D., Columbia University, Professor
Level 2

Blendinger, Jack G., Ed.D., University of North Colorado, Professor
Taggart, Amanda S., Ed.D., University of Texas at San Antonio, Assistant Professor
Wallin, Patsy K. (Penny), Ed.D., University of Southern Mississippi, Assistant Professor
Willis, Chris, Ed.D., Indiana University, Assistant Professor
Wiseman, William M., Ph.D., Mississippi State University, Director of the John C. Stennis Institute of Government, Professor

Participant (T=Teach; C=Committee Member)
Adams, Joe, Ph.D., Vanderbilt University, Public Affairs Research Council of Alabama, C
Alexander, Mary L., Ph.D., Mississippi State University, Director of Diversity and Equity Programs, C
Ayers, W. Bruce, Ed.D., East Tennessee State University, President of Southeast Community & Technical College, T
Bean, Suzanne M., Ph.D., University of Southern Mississippi, Director, Center for Creative Learning, Mississippi University for Women, C
Beaulieu, Lionel J., Ph.D., Purdue University, Adjunct Faculty in Leadership and Foundations, C
Bock, Shelley H., Ph.D., Mississippi State University, Associate Director, Research & Curriculum Unit, C
Bonfanti, Philip, Ph.D., Mississippi State University, Director, Office of Admissions and Scholarships, C
Bradberry, Randall, Ed.D., Mississippi State University, Associate Executive Director, State Board for Community/Junior Colleges, T, C
Crittenden, Laura A., Ph.D., Mississippi State University, Manager, Office of Academic Outreach, C
Davis, Cathy A., Ed.D., Samford University, Assistant Research Professor, Research Curriculum Unit, C
Garner, Howell C., Ph.D., University of Southern Mississippi, Executive Director, Mississippi Community College Foundation, C
Jackson, Elizabeth H., Ph.D., Mississippi State University, Assistant Superintendent, Neshoba County Schools, C
Lindley, Clyde A., Ed.D, Mississippi State University, Vocational Director, Winston-Louisville Vocational Center, C
Mathews, Jerry G., Ph.D., Mississippi State University, Associate Professor (Retired), C
Morgan, Margaret C. T., Ph.D., University of Mississippi, Coordinator of Assessment, Research and Curriculum Unit, C
Perkins, T. Fred, Ed.D., Mississippi State University, Superintendent, Tarrant Public Schools, Tarrant, AL, C
Poss, Randle O., Ph.D., University of Mississippi, Superintendent, Winona, MS, School District, C
Sewell, Beth H., Ed.D., Mississippi State University, Assistant Superintendent, for Curriculum and Instruction, Starkville School District, T, C
Thurston, Darlene A., Ph.D., Florida State University, Associate Professor, Jackson State University, C

Music

Level 1

Brown, Michael R., Ed.D., University of Georgia, Professor and Department Head
Johns, Lana K., D.M., Florida State University, Professor

BAGLEY COLLEGE OF ENGINEERING
Aerospace Engineering

Level 1

Bridges, David H., Ph.D., California Institute of Technology, Associate Professor
Cheng, Yang, Ph.D., Harbin Institute of Technology (China), Assistant Professor
Cinnella, Pasquale, P.E., Ph.D., Virginia Polytechnic Institute and State University, Professor and Department Head
Janus, J. Mark, Ph.D., Mississippi State University, Associate Professor and Graduate Coordinator
Koenig, Keith, P.E., Ph.D., California Institute of Technology, Professor
Lacy, Thomas E., P.E., Ph.D., Georgia Institute of Technology, Associate Professor
Motoyama, Keiichi, Ph.D., University of Tsukuba (Japan), Research Professor
Newman, James C., Jr., Ph.D., Virginia Polytechnic Institute and State University, Professor
Newman, James C., III, Ph.D., Virginia Polytechnic Institute and State University, Associate Professor
Rais-Rohani, Masoud, P.E., Ph.D., Virginia Polytechnic Institute and State University, Professor
Sullivan, Rani W., Ph.D., Mississippi State University, Assistant Professor
Thompson, David S., Ph.D., Iowa State University, Associate Professor
Weed, Richard A., Ph.D., Georgia Institute of Technology, Associate Research Professor
Xin, Ming, Ph.D., University of Missouri-Rolla, Assistant Professor

Participant (T=Teach; C=Committee Member)
Blades, Eric L., Ph.D., Mississippi State University, Director of Southeast Regional Operations, AT& T Engineering, Inc., C
Chen, Jen-Ping, Ph.D., Mississippi State University, Associate Professor, Ohio State University, C
Danielson, Kent Thomas, Ph.D., Texas A&M University, Senior Computational Engineer, T
Hannigan, Thomas, III, M.S., Mississippi State University, Instructor/Lab Coordinator, T, C
Hilton, Harry H., Ph.D., University of Illinois, Senior Academic Lead for Computational Structural/Solid Mechanics, NCSA, C
Polzin, Kurt A., Ph.D., Princeton University, Propulsion Research Scientist, NASA, C
Walker, Calvin R., M.S., Mississippi State University, Senior Flight Test Engineer, T
Agricultural and Biological Engineering  
**Level 1**  
Cathcart, Thomas P., Ph.D., University of Maryland, Professor  
Davis, Jeremiah D., Ph.D., Iowa State University, Assistant Professor  
Elder, Steven H., Ph.D., University of Michigan, Professor  
Gilbert, Jerome A., Ph.D., Duke University, Provost and Executive Vice President, Professor  
King, Roger L., Ph.D., University of Wales, Professor and Director, CAVS  
McLaughlin, Ron, D.V.M., University of Missouri-Columbia, Professor  
Ryan, Peter L., Ph.D., University of Guelph, Associate Professor  
To, Filip Suminto D., Ph.D., Mississippi State University, Associate Professor  
Cathcart, Thomas P., Ph.D., University of Maryland, Professor  
Elder, Steven H., Ph.D., University of Michigan, Professor  
Gilbert, Jerome A., Ph.D., Duke University, Provost and Executive Vice President, Professor  
King, Roger L., Ph.D., University of Wales, Professor and Director, CAVS  
McLaughlin, Ron, D.V.M., University of Missouri-Columbia, Professor  
Ryan, Peter L., Ph.D., University of Guelph, Associate Professor  
To, Filip Suminto D., Ph.D., Mississippi State University, Associate Professor  
Paz, Joel O., Ph.D., Iowa State University, Assistant Professor  
Pote, Jonathan W., Ph.D., University of Arkansas, Professor and Department Head  
Schmidt, Amy M., Ph.D., Mississippi State University, Assistant Extension Professor  
Srinivasan, Radhakrishnan, Ph.D., University of Illinois at Urbana-Champaign, Assistant Professor  
To, Filip Suminto D., Ph.D., Mississippi State University, Associate Professor  
Warnock, James Neill, Ph.D., University of Birmingham (United Kingdom), Associate Professor  
Williams, Lakiesha N., Ph.D., Mississippi State University, Assistant Professor  
Yu, Fei, Ph.D., University of Minnesota, Assistant Professor  

**Level 2**  
Sui, Ruixiu, Ph.D., University of Tennessee, Research Assistant Professor  
Butler, R. Allen, M.D., Tulane University School of Medicine, C  
Columbus, Eugene P., M.S., Mississippi State University, Senior Research Associate, C  
Fernando, Sandun D., Ph.D., University of Nebraska-Lincoln, Assistant Professor, Texas A&M University, C  
Foster, Jack B., Jr., M.D., University of Mississippi Medical Center, C  
Kerut, Kenneth, M.D., University of Mississippi School of Medicine, C  
Kim, Hak-Kwan, Ph.D., Seoul National University (Korea), Research Associate, C  
Montross, Michael D., Purdue University, Associate Professor, University of Kentucky, C  
Pordesimo, Lester O., Ph.D., The Pennsylvania State University, Senior Process Scientist, ADM Alliance Nutrition, Inc., C  
Raper, Randy L., Ph.D., P.E., Iowa State University, Research Leader/Agricultural Engineer, USDA-ARS, Booneville, AR  

Biomedical Engineering  
**Level 1**  
Burgreen, Greg W., Ph.D., Old Dominion University, Associate Research Professor  

Chemical Engineering  
**Level 1**  
Bricka, Mark R., Ph.D., Purdue University, Associate Professor  
Elmore, Billy B., Ph.D., University of Arkansas-Fayetteville, Interim Department Head, Associate Professor and Henry Chair  
French, W. Todd, Ph.D., Mississippi State University, Assistant Professor  
Hernandez, Rafael A., Ph.D., Mississippi State University, Associate Professor and Graduate Coordinator  
Hill, Priscilla J., Ph.D., University of Massachusetts, Associate Professor  
Toghiiani, Hossein, Ph.D., University of Missouri, Associate Professor  
Toghiiani, Rebecca K., Ph.D., University of Missouri, Associate Professor  
Walters, Keisha B., Ph.D., Clemson University, Assistant Professor  
Zhang, Guochang, Ph.D., Institute of Processing Engineering, Chinese Academy of Sciences, Assistant Research Professor  
Estevez, L. Antonio, Ph.D., University of California-Davis, C  
Fleming, Elizabeth C., Ph.D., Louisiana State University, Research Environmental Engineer, C  
George, Clifford E., Ph.D., Mississippi State University, Professor Emeritus, C  
Li, Yadong, Ph.D., Tsinghua University and University of Tokyo, Assistant Professor, Jackson State University, C  
Minerick, Adrienne R., Ph.D., University of Notre Dame, Associate Professor, Michigan Technological University, C  
White, Mark G., Ph.D., Rice University, Professor, Director, and Earnest W. Deavenport Chair (Retired), C  
Zappi, Mark E., Ph.D., Mississippi State University, Dean of Engineering, University of Louisiana-Lafayette, C
Civil and Environmental Engineering

Level 1

Diaz-Ramirez, Jairo N., Ph.D., Mississippi State University, Assistant Research Professor

El-Adaway, Islam Hassan, Ph.D., Iowa State University, Assistant Professor

Freyne, Seamus F., Ph.D., University of Oklahoma, Assistant Professor

Gullette, Philip M., Ph.D., P.E., University of California at Davis, Associate Professor

Howard, Isaac L., Ph.D., E.I., University of Arkansas, Assistant Professor

Magbanua, Benjamin S., Jr., Ph.D., P.E., Vanderbilt University, Associate Professor

Martin, James L., Ph.D., P.E., D.WRE, F.ASCE, Texas A&M University, Professor and Kelly Gene Cook, Sr. Chair

McAnally, William H., Ph.D., P.E., F.ASCE, University of Florida, Research Professor

Saucier, Christopher K., Ph.D., Johns Hopkins University, Assistant Professor

Truax, Dennis D., Ph.D., P.E., DEE, F.ASCE, Mississippi State University, Professor, James T. White Chair, and Department Head

White, Thomas D., Ph.D., P.E., Purdue University, Professor and Construction Materials Industries Chair

Zhang, Li, PhD., P.E., Virginia Polytechnic Institute and State University, Assistant Professor

Level 2

Alarcon, Vladimir J., Ph.D., Mississippi State University, Assistant Research Professor

Tagert, Mary Love, Ph.D., Mississippi State University, Assistant Research Professor

Participant (T=Teach; C=Committee Member)

Ahirch, Randolph Charles, Ph.D., Auburn University, Professional Engineer and Principal, Burns Cooley Dennis, Inc., C

Akers, Stephen A., Ph.D., Virginia Polytechnic Institute, US Army Corps of Engineers ERDC, C

Alethawe, Imad, Ph.D., P.E., Mississippi State University, Construction Field Engineer, T

Anderton, Gary L., Ph.D., P.E., University of Texas, Research Civil Engineer, US Army Corps of Engineers ERDC, T, C

Berger, Rutherford C. (Charlie), Ph.D., P.E., The University of Texas at Austin, Research Hydraulic Engineer, US Army Corps of Engineers ERDC, T, C

Berney, Ernest S., IV, Ph.D., P.E., Purdue University, Research Civil Engineer, US Army Engineer Corps of Engineers ERDC, T, C

Brown, E. R., Ph.D., Texas A&M University, Research Civil Engineer, US Army Corps of Engineers ERDC, T, C

Bush, Albert J. III, Ph.D., University of Illinois, Director-Graduate Institute, US Army Corps of Engineers ERDC, C

Butler, Dwain Kent, Ph.D., P.E., Texas A&M University, Research Physicist, US Army Corps of Engineers ERDC, C

Cargile, James Donald, Ph.D., P.E., Purdue University, Research Civil Engineer, US Army Corps of Engineers ERDC, C

Cooley, Larry Allen, Jr., Ph.D., P.E., Auburn University, Senior Pavements/Materials Engineer, Burns Cooley Dennis Consulting Engineers, C

Copeland, Ronald R., Ph.D., University of Iowa, Hydraulic Engineer, US Army Corps of Engineers ERDC, C

Douglass, Scott L., Ph.D., Drexel University, Professor of Civil Engineering, University of South Alabama, C

Estes, Trudy J., Ph.D., Louisiana State University, Research Civil Engineer, US Army Corps of Engineers ERDC, C

Fernandez, Alvaro A., Ph.D., P.E., Rice University, Computational Scientist, US Army Corps of Engineers ERDC, C

Freeman, Reed, Ph.D., P.E., University of Texas at Austin, Research Civil Engineer, US Army Corps of Engineers ERDC, C

Hall, Robert L.,Ph.D., Oklahoma State University, Principal, Engineering Innovations, LLC, Vicksburg, MS, C

He, Shiwei, Ph.D., Southwest Jiaotong University (China), Professor, School of Traffic and Transportation, Northern Jiaotong University, C

Holland, Jeffrey P., Ph.D., P.E., Colorado State University, Research Hydraulic Engineer, US Army Corps of Engineers ERDC, C

Howington, Stacy E., Ph.D., P.E., University of Colorado at Boulder, Civil and Hydraulic Engineer, US Army Corps of Engineers ERDC, T, C

Hughes, Steven A., Ph.D., University of Florida, Senior Hydraulic Engineer, US Army Corps of Engineers ERDC, C

Johnson, Billy E., Ph.D., P.E., Colorado State University, Research Civil Engineer, US Army Corps of Engineers ERDC, T, C

Kees, Christopher E., Ph.D., University of North Carolina at Chapel Hill, Research Hydraulic Engineer, US Army Corps of Engineers ERDC, T, C

Langendoen, Eddy J., Ph.D., Delft University of Technology, The Netherlands, USDA-ARS, C

McAdory, Robert, Ph.D., University of Texas, Physicist, US Army Corps of Engineers ERDC, C

Milburn, Troy W., Ph.D., University of Louisville, Research Civil Engineer, US Army Corps of Engineers ERDC, T

Mlakar, Paul F., Ph.D., P.E., Purdue University, Senior Research Civil Engineer, US Army Corps of Engineers ERDC, T, C

Newman, John Kent, Ph.D., University of Southern Mississippi, Research Physical Scientist, US Army Corps of Engineers ERDC, C

Olsen, Richard S., Ph.D., Ph.D., University of California at Berkeley, Research Geotechnical Engineer, US Army Corps of Engineers ERDC, T, C
Peters, John F., Ph.D., P.E., University of Illinois, Research Civil Engineer, US Army Engineer Corps of Engineers, ERDC, C
Pettway, Jacqueline S., Ph.D., Mississippi State University, Supervisory Hydraulic Engineer, US Army Corps of Engineers, ERDC, T
Rashid, Mark M., Ph.D., University of California at San Diego, Professor, University of California-Davis, C
Resio, Donald T., Ph.D., University of Virginia, Senior Technologist, ERDC-CHL, C
Rodriguez, Hugo N., Ph.D., University of Florida, Water Resources Engineer, Tetra Tech, Inc., Atlanta, GA, C
Selvanduray, Guna Seelan, Ph.D., Stanford University, Professor, San Jose State University, C
Sharp, Michael K., Ph.D., P.E., Rensselaer Polytechnic Institute, Director, Centrifuge Research, US Army Corps of Engineers ERDC, C
Sinno, Ralph R., Ph.D., P.E., F.ASCE, Texas A&M University, Professor Emeritus, T, C
Slawson, Thomas R., Ph.D., P.E., Purdue University, Research Structural Engineer, US Army Corps of Engineers ERDC, C
Smith, Jane McKee, Ph.D., University of Delaware, Research Hydraulic Engineer, US Army Corps of Engineers ERDC, T, C
Stockstill, Richard L., Ph.D., P.E., University of Washington, Research Hydraulic Engineer, US Army Corps of Engineers ERDC, T, C
Sucsy, Peter V., Ph.D., University of Maine, Supervising Engineer Scientist, St. Johns River Water Management District, Palatka, FL, C
Wilhelms, Steven C., Ph.D., University of Minnesota, Research Civil Engineer, US Army Corps of Engineers ERDC, C
Willoughby, William E., Ph.D., P.E., Mississippi State University, Research Civil Engineer, US Army Corps of Engineers ERDC, C
Woodson, Stanley, Ph.D., P.E., University of Illinois, Research Civil Engineer, US Army Corps of Engineers ERDC, T, C
Zhang, Zhonglong, Ph.D., Clemson University, Senior Scientist, US Army Corps of Engineers ERDC, C

Computational Engineering
Level 1
Banicescu, Ioana, Ph.D., Polytechnic University, New York, Professor
Bruce, Lori M., Ph.D., University of Alabama, Professor and Associate Dean, Bagley College of Engineering
Burgreen, Greg W., Ph.D., Old Dominion University, Associate Research Professor
Cinnella, Pasquale, Ph.D., Virginia Polytechnic Institute and State University, Professor
El Kadi, Haitham, Ph.D., Ecole Des Mines de Paris, Assistant Research Professor
Fowler, James, Ph.D., Ohio State University, Professor
Gullet, Philip, Ph.D., P.E., University of California, Davis, Associate Professor

Hammi, Youssef, Ph.D., University of Technology of Troyes (France), Assistant Research Professor
Horstemeyer, Mark F., Ph.D., Georgia Institute of Technology, Professor
Janus, J. Mark, Ph.D., Mississippi State University, Associate Professor
Kim, Seong-Gon, Ph.D., Michigan State University, Assistant Professor
Kim, Seongjai, Ph.D., Purdue University, Associate Professor
King, Roger L., Ph.D., University of Wales, Professor and Director, CAVS
Lacy, Thomas E., Ph.D., Georgia Institute of Technology, Assistant Professor
Luke, Edward A., Ph.D., Mississippi State University, Associate Professor
Marcum, David L., Ph.D., Purdue University, Professor
Moorhead, Robert J., Ph.D., North Carolina State University, Professor Director, Geosystems Research Institute
Newman III, James C., Ph.D., Virginia Polytechnic Institute and State University, Associate Professor
Novotny, Mark A., Ph.D., Stanford University, Professor and Director, ERC Center for Computational Sciences
Oppenheimer, Seth F., Ph.D., University of Texas at Austin, Professor
Perkins, Andy D., Ph.D., University of Tennessee, Assistant Professor
Qatu, Mohamad, Ph.D., Ohio State University, Professor
Rais-Rohani, Masoud, Ph.D., Virginia Polytechnic Institute and State University, Professor
Reese, Donna S., Ph.D., Texas A&M University, Professor
Swan, J. Edward, II, Ph.D., Ohio State University, Associate Professor
Thompson, David S., Ph.D., Iowa State University, Associate Professor
Tong, Xiao-Ling, Ph.D., University of Delaware, Assistant Professor
Wang, Xiao, Ph.D., Mississippi State University, Assistant Research Professor

Level 2
Fitzpatrick, Patrick J., Ph.D., Colorado State University, Associate Research Professor
Haupt, Tomasz A., Institute of Nuclear Physics (Poland), Associate Research Professor
Lim, Hyeona, Ph.D., Michigan State University, Associate Professor
Remotigue, Michael G., Ph.D., Mississippi State University, Associate Research Professor
Solanki, Kiran N., Ph.D., Mississippi State University, Assistant Research Professor
Weed, Richard A., Ph.D., Georgia Institute of Technology, Associate Research Professor

Participant (T=Teach; C=Committee Member)
Blades, Eric L., Ph.D., Mississippi State University, Director of Southeast Regional Operations, ATA Engineering, Inc., C
Farthing, Matthew W., Ph.D., University of North Carolina, Research Hydraulic Engineer, US Army Corps of Engineers ERDC, C
Mastin, C. Wayne, Ph.D., Texas Christian University, Professor Emeritus, C
Smith, James A., Ph.D., University of Michigan, Senior Scientist, NASA Goddard Space Flight Center, C

Computer Science and Engineering

Level 1

Allen, Edward B., Ph.D., Florida Atlantic University, Associate Professor
Amburn, Elton P., Ph.D., University of North Carolina at Chapel Hill, Associate Research Professor
Banicescu, Ioana, Ph.D., Polytechnic University, Professor
Dampier, David A., Ph.D., Naval Postgraduate School, Associate Professor
Dandass, Yoginder, Ph.D., Mississippi State University, Associate Professor
Hansen, Eric, Ph.D., University of Massachusetts, Associate Professor
Haupt, Tomasz, Ph.D., Institute of Nuclear Physics (Krakow, Poland), Associate Research Professor
Hodges, Julia E., Ph.D., University of Southwestern Louisiana, Professor
Jankun-Kelly, T.J., Ph.D., University of California-Davis, Associate Professor
Luke, Edward Allen, Ph.D., Mississippi State University, Associate Professor
Niu, Nan, Ph.D., University of Toronto, Assistant Professor
Perkins, Andy D., Ph.D., University of Tennessee, Assistant Professor
Ramkumar, Mahalingam, Ph.D., New Jersey Institute of Technology, Associate Professor
Reese, Donna S., Ph.D., Texas A&M University, Professor and Department Head
Swan, J. Edward, II, Ph.D., The Ohio State University, Professor
Vaughn, Rayford B., Jr., Ph.D., Kansas State University, William L. Giles Distinguished Professor and Associate Vice President for Research
Yuan, Changhe, Ph.D., University of Pittsburgh, Assistant Professor
Zhang, Song, Ph.D., Brown University, Assistant Professor

Level 2

Bethel, Cindy L., Ph.D., University of South Florida, Assistant Professor
Williams, Byron J., Ph.D., Mississippi State University, Assistant Professor
Baca, Julie A., Ph.D. Mississippi State University, Computer Scientist, Geosystems Research Institute, C
Bogen, Alfred Christopher, Ph.D., Mississippi State University, SoftwareEngineer/Computer Scientist, Engineer R&D Center, C

Boggess, Julian E., III, Ph.D., University of Illinois, Associate Professor, C
Bridges, Susan M., Ph.D., University of Alabama at Huntsville, Professor, C
Butler, Cary D., Ph.D., Texas A&M University, Technical Director, Information Technology Laboratory, Engineer R&D, C
Carver, Jeffrey C., Ph.D., University of Maryland, Assistant Professor, University of Alabama, C
Cheng, Jing-Ru C., Ph.D., Pennsylvania State University, Research Scientist, US Army Corps of Engineers ERDC, T, C
Ellis, Stephen R., Ph.D., McGill University, Research Scientist, NASA Ames Research Center, C
Hendrix, Philip G., Ph.D., Harvard University, Computer Scientist, US Army Corps of Engineers ERDC, T, C
Lee, Sarah B., Ph.D., University of Memphis, Instructor and Director of Undergraduate Studies, T, C
Morris, Gerald Roger, Ph.D., University of Southern California, Computer Scientist, US Army Corps of Engineers ERDC, T, C
Wright, Margaret (Peggy) B., Ph.D., Mississippi State University, Computer Scientist, US Army Engineer R&D Center, C

Dean of Engineering

Participant (T=Teach; C=Committee Member)

May, James H., Ph.D., Texas A & M University, Instructor, Department of Sciences, Geotechnical Consultant
Burns, Cooley, and Dennis, Raytheon Underground Technology Division, C

Electrical and Computer Engineering

Level 1

Aanstos, James V., Ph.D., Purdue University, Associate Research Professor
Abdelwahed, Sherif, Ph.D., University of Toronto, Assistant Professor
Amburn, Elton Philip, Ph.D., University of North Carolina, Associate Research Professor
Anderson, Derek T., Ph.D., University of Missouri, Assistant Professor
Bruce, Jerry W., Ph.D., University of Nevada Las Vegas, Associate Professor
Bruce, Lori M., Ph.D., University of Alabama in Huntsville, Professor and Associate Dean, Bagley College of Engineering
Donohoe, J. Patrick, Ph.D., University of Mississippi, Professor
Du, Qian (Jenny), Ph.D., University of Maryland-Baltimore County, Associate Professor
Follett, Randolph F., Ph.D., Mississippi State University, Assistant Professor
Fowler, James, Ph.D., Ohio State University, Professor
Fu, Yong, Ph.D., Illinois Institute of Technology, Assistant Professor
Grzybowski, Stanislaw, Ph.D., Tech University of Warsaw, Poland, Endowed Professor
Jones, Bryan A., Ph.D., Clemson University, Assistant Professor
King, Roger L., Ph.D., University of Wales, Professor and Director, CAVS
Koshka, Yaroslav, Ph.D., University of South Florida, Associate Professor
Li, Pan, Ph.D., University of Florida, Assistant Professor
Mazzola, Michael, Ph.D., Old Dominion University, Professor
Molen, G. Marshall, Ph.D., Texas Tech University, Professor
Moorehead, Robert J., Ph.D., North Carolina State University, Professor and Director, Geosystems Research Institute
Morris, Thomas H., Ph.D., Southern Methodist University, Assistant Professor
Prasad, Saurabh, Ph.D., Mississippi State University, Assistant Research Professor
Reese, Robert B., Ph.D., Texas A&M University, Associate Professor
Topsakal, Erdem
Winton, Raymond S., Ph.D., Duke University, Professor
Youhan, Nicolas H., Ph.D., Ohio University, Professor
Level 2
Albanna, Ahmad, Ph.D., Southern Illinois University, Assistant Research Professor
Taylor, Clayborne D., Jr., Ph.D., Mississippi State University, Assistant Research Professor
Butler, Gary D., Ph.D., University of Cambridge, Assistant Vice President for Research
Anantharaj, Valentine G., Ph.D., Mississippi State University, Computational Climate Scientist, Oak Ridge National Laboratory, T
Elsherbeni, Atef Z., Ph.D., University of Manitoba, Professor, University of Mississippi, C
Frazier, William Garth, Ph.D., Ohio University, Senior Research Scientist, National Center for Physical Acoustics, C
Ginn, Herbert L., Ph.D., Louisiana State University, Associate Professor, University of South Carolina, T
Hamedi-Hagh, Sotoudeh, Ph.D., University of Toronto, Assitant Professor, San Jose State University, C
Hiser, Doug, Ph.D., Texas A&M University, Electrical Engineer, Consultant Cadence Design Systems, Inc., C
Schulz, Noel N., Ph.D., University of Minnesota, Paslay Professor, Kansas State University, C
Seran, Santosh, Ph.D., Mississippi State University, Post Doctoral Associate, T
Srivastava, Anurag K., Ph.D., Illinois Institute of Technology, Assistant Professor, Washington State University, C
Srivastava, Suresh Chandra, Ph.D., Indian Institute of Technology, Professor, Indian Institute of Technology Kanpur (India), C

Level 2
Turo, James A., Ph.D., Penn State University, Scientist, Northrup Grumman Ship Systems, Research and Development, C
Walker, Calvin R., M.S., Mississippi State University, Senior Flight Test Engineer, C

Industrial and Systems Engineering
Level 1
Babski-Reeves, Kari, Ph.D., Mississippi State University, Associate Professor
Bowden, Royce, Ph.D., Mississippi State University, Associate Dean of Bagley College of Engineering and Professor
Bullington, Stanley F., Ph.D., Auburn University, Professor
Eksioglu, Burak, Ph.D., University of Florida, Associate Professor
Eksioglu, Sandra D., Ph.D., University of Florida, Assistant Professor
Greenwood, Allen G., Ph.D., Virginia Polytechnic Institute, Professor
Jin, Mingzhou, Ph.D., Lehigh University, Associate Professor
Strawderman, Lesley, Ph.D., Pennsylvania State University, Assistant Professor
Usher, John M., P.E., Ph.D., Louisiana State University, Professor and Interim Department Head
Walden, Clayton T., Ph.D., Mississippi State University, Research Professor and Director, Center for Advanced Vehicular Systems Extension

Level 2
Carruth, Daniel W., Ph.D., Mississippi State University, Assistant Research Professor
Boginski, Vladimir, Ph.D., University of Florida, Visiting Assistant Professor, University of Florida, C
Dalton, Larry G., M.S.I.E., Mississippi State University, Director of Six Sigma, C, T
Fortier, Aleksandra, Ph.D., Southern Methodist University, Assistant Professor, University of North Texas, C
Jackson, Neal F., Ph.D., University of Mississippi, Professor, Christian Brothers University, C
Keskin, Burcu B., Ph.D., Texas A&M University, Assistant Professor, University of Alabama, C
Levin, Ginger, Ph.D., Ph.D., George Washington University, Senior Consultant, C
Smith-Jackson, Tonya L., Ph.D., North Carolina State University, Associate Professor, Virginia Polytechnic Institute and State University, C

Mechanical Engineering
Level 1
Bammann, Douglas J., Ph.D., University of Illinois, Professor
Bouvard, Jean-Luc, Ph.D., Paris Tech Mines de Paris (France), Assistant Research Professor
Daniiewicz, Steven R., Ph.D., Ohio State University, Professor
El Kadi, Haitham, Ph.D., Ecole Des Mines de Paris, Assistant Research Professor
Felcilli, Sergio D., Ph.D., The University of Arizona, Professor
Fumo, Nelson, Ph.D., Mississippi State University, Assistant Research Professor
Hammie, Youssef, Ph.D., University of Technology of Compiègne/Troyes (France), Assistant Research Professor
Horstemeyer, Mark F., Ph.D., Georgia Institute of Technology, Professor
Krishnan, Sundar R., Ph.D., University of Alabama, Assistant Professor
Luck, Rogelio, Ph.D., Pennsylvania State University, Professor
Mago, Pedro J., Ph.D., University of Florida, Associate Professor
Marcum, David L., Ph.D., Purdue University, Professor and Graduate Coordinator
Marin, Esteban B., Ph.D., Georgia Institute of Technology, Research Professor
Myers, Oliver J., Ph.D., University of Maryland, Assistant Professor
Patton, Richard D., Ph.D., Stevens Institute of Technology, Assistant Professor
Rhee, Hongjoo, Ph.D., Michigan State University, Assistant Research Professor
Schneider, Judith A., Ph.D., University of California-Davis, Associate Professor
Sriniwasan, Kalyan K., Ph.D. The University of Alabama, Assistant Professor
Steele, W. Glenn, Jr., P.E., Ph.D., North Carolina State University, Professor
Stone, Tonya W., Ph.D., Mississippi State University, Assistant Professor
Tschopp, Mark A., Jr., Ph.D., Georgia Institute of Technology, Assistant Research Professor
Walters, D. Keith, Ph.D., Clemson University, Associate Professor
Wang, Lian, Ph.D., University of Iowa, Assistant Research Professor
Wang, Paul T., Ph.D., University of Iowa, Research Professor
Wyatt, John Edward, Ph.D., Southampton Institute, Associate Professor

Level 2

Martin, Holly M., Ph.D., Mississippi State University, Assistant Research Professor
Zaeem, Mohsen Asle, Ph.D., Washington State University, Assistant Research Professor

Participant (T=Teach; C=Committee Member)

Allison, Paul G., Ph.D., Mississippi State University, Research Mechanical Engineer, US Army Engineer R&D Center, C
Castanier, Matthew P., Ph.D., University of Michigan, Mechanical Engineer, U.S. Army Tank Automotive Research, Development, and Engineering Center, Warren, MI, C

Chamra, Louay M., Ph.D., Pennsylvania State University, Dean and Professor, Oakland University, C
Chen, Po-Shou, Ph.D., Auburn University, Principal Transmission Electron Microscopist, NASA-Marshall Space Flight Center, C
Field, Robert E., Ph.D., Purdue University, Aerospace Technologist, NASA, Stennis Space Center
Jordon, J. Brian, Ph.D., Mississippi State University, Assistant Research Professor, C
Kusner, Alan S., Ph.D., University of Maryland, Chief Technical Advisor, National Transportation Safety Board, C
Linert, Thomas J., Ph.D., Ohio State University, Technical Staff Member, Los Alamos National Laboratory, C
Mates, Steven P., Ph.D., Pennsylvania State University, Mechanical Engineer, Technical Staff, Material Measurement Laboratory, National Institute of Standards and Technology, C
Mc Gill, Preston B., Ph.D., Auburn University, Structural Materials Engineer/NASA, C
McKittrick, Joanna, Ph.D., Massachusetts Institute of Technology, Professor, University of California-San Diego, C
Norton, Olin Perry, Ph.D., California Institute of Technology, Research Engineer, Institute for Clean Energy Technology (ICET), C
Nunes, Arthur C., Jr., Ph.D., University of California-Berkeley, Aerospace Engineer, NASA, C
Qatu, Mohamad S., Ph.D., Ohio State University, Professor and Director, School of Engineering & Technology, Central Michigan University, C
Solanki, Kiran N., Ph.D., Mississippi State University, Assistant Professor, School for Engineering, Matter, Transport, and Energy, Arizona State University, C
Som, Sibendu, Ph.D., University of Illinois-Chicago, Mechanical Engineer, Energy Systems Division, Argonne National Laboratory, C
Tomé, Carlos N., Ph.D., National University of La Plata (Argentina), Team Leader, Los Alamos National Laboratory, C

COLLEGE OF FOREST RESOURCES
Forest Products
Level 1

Barnes, H. M., Ph.D., State University of New York, Professor
Borazjani, Abdolhamid, Ph.D., Mississippi State University, Professor
Diehl, Susan V., Ph.D., Mississippi State University, Professor
Jones, Paul David, Ph.D., University of Georgia, Assistant Extension Professor
Kim, Moon G., Ph.D., Kansas State University, Professor
Kitchens, Shane C., Ph.D., Mississippi State University, Assistant Professor
Nicholas, Darrel D., Ph.D., North Carolina State University, Professor
Prewitt, M. Lynn, Ph.D., Mississippi State University, Assistant Research Professor
Schultz, Tor P., Ph.D., North Carolina State University, Professor
Seale, R. Dan, Ph.D., Clemson University, Professor
Shi, Sheldon Q., Ph.D., Michigan Technological University, Assistant Professor
Shmulsky, Rubin, Ph.D., Mississippi State University, Department Head and Professor
Steene, Philip H., Ph.D., Mississippi State University, Professor
Zhang, Jiele, Ph.D., Purdue University, Professor

Level 2

Gajjela, Sanjeev, Ph.D., Mississippi State University, Assistant Research Professor
Hassan, El Barbary M., Ph.D., Ain Shams University (Egypt), Assistant Research Professor

Participant (T=Teach; C=Committee Member)
Amburgey, Terry L., Ph.D., North Carolina State University, Professor (retired), C

Boyd, Gwendolyn D., Ph.D., Mississippi State University, Assistant Professor, Alcorn State University, C
Clausen, Carol A., M.S., University of Wisconsin-Madison, Supervisory Research Microbiologist, C
Green, Frederick III, Ph.D., University of Wisconsin Medical School, Research Microbiologist, USDA Forest Service, C
Henderson, Gregg, Ph.D., University of Wisconsin, Professor, Louisiana State University, C
McElroy, Thomas C., Ph.D., Mississippi State University, Assistant Professor, Kennesaw State University, C
Martin, William V., M.B.A., M.P.P.A., Mississippi State University, Director, Franklin Furniture Institute, C
Mun, Sung Phil, Ph.D., Kyushu University (Japan), Visiting Scientist, C
Winandy, Jerrold E., Ph.D., Oregon State University, Principal Associate, Winandy & Associates, C
Wu, Zhunhi, Ph.D., Shimane University (Japan), Professor and Dean of College of Furniture and Industrial Design, Nanjing Forest University (China), C

Forestry Level 1

Evans, David L., Ph.D., Louisiana State University, Professor
Ezell, Andrew W., Ph.D., Louisiana State University, Professor and Department Head
Fan, ZhaoFei, Ph.D., University of Idaho, Assistant Professor
Gordon, Jason S., Ph.D., Pennsylvania State University, Assistant Extension Professor
Grace, Laura A., Ph.D., Swedish University of Agricultural Sciences, Professor
Grado, Stephen C., Ph.D., Pennsylvania State University, Professor
Grala, Robert K., Ph.D., Iowa State University, Assistant Professor
Grebner, Donald L., Ph.D., Virginia Polytechnic Institute and State University, Professor

Level 2

Hatten, Jeff A., Ph.D., University of Washington, Assistant Professor
Henderson, James E., Ph.D., Louisiana State University, Assistant Extension Professor
Hopper, George M., Ph.D., Virginia Polytechnic Institute and State University, Professor and Dean, College of Forest Resources; Dean, College of Agriculture and Life Sciences
Kushla, John D., Ph.D., Oregon State University, Associate Extension/Research Professor
Londo, Andrew J., Ph.D., Oregon State University, Associate Extension/Research Professor
Matney, Thomas G., Ph.D., Virginia Polytechnic Institute and State University, Professor
Munn, Ian A., Ph.D., North Carolina State University, Professor
Roberts, Scott D., Ph.D., Utah State University, Associate Professor
Rousseau, Randall J., Ph.D., Mississippi State University, Associate Extension/Research Professor
Schultz, Emily B., Ph.D., North Carolina State University, Professor
Stuart, William B., Ph.D., Virginia Polytechnic Institute and State University, Professor
Sun, Changyou, Ph.D., Auburn University, Associate Professor
Yuceer, Mehmet Cetin, Ph.D., Mississippi State University, Assistant Professor

Gaddis, Deborah A., Ph.D., North Carolina State University, Extension Professor
Hughes, H. Glenn, Ph.D., Texas A&I University, Extension Professor
Tagert, Mary Love M., Ph.D., Mississippi State University, Assistant Research Professor

Participant (T=Teach; C=Committee Member)
Ballweber, Jeffery A., J.D., University of Oregon School of Law, C
Barlow, Rebecca J., Ph.D., Mississippi State University, Assistant Professor, Auburn University, C
Bonner, F.T., D.F., Duke University, Emeritus Scientist, USDA Forest Service, C
Cao, Dr. Quang V., Ph.D., Virginia Polytechnic Institute and State University, Professor, Louisiana State University, C
Dean, Thomas J., Ph.D., Utah State University, Professor, Louisiana State University, C
dePamphilis, Claude W., Ph.D., University of Georgia, Professor, Penn State University, T
Dey, Daniel C., Ph.D., University of Missouri, Research Forester, USDA Forest Service, C
Duzan, Howard W., Jr., Ph.D., North Carolina State University, Research Forester, Weyerhaeuser, C
Eisenbies, Mark H., Ph.D., Virginia Polytechnic Institute and State University, Hydrologist, USDA Forest Service, C
Gardiner, Emile S., Ph.D., Mississippi State University, Research Forester, USDA Forest Service, C
Hawkins, Tracy S., Ph.D., University of Kentucky, Research Ecologist, USDA Forest Service, C
Hodges, John D., Ph.D., University of Washington, Professor Emeritus, C
Kleipzig, Kier D., Ph.D., University of Wisconsin-Madison, Research Entomologist, USDA Forest Service, C
Leininger, Theodor D., Ph.D., Virginia Polytechnic Institute and State University, Project Leader/Research Plant Pathologist, USDA Forest Service, C
Lockhart, Brian R., Ph.D., Mississippi State University, Research Forester, USDA Forest Service, C
Londo, H. Alexis, Ph.D., Mississippi State University, Research Associate II, T
Marion, Daniel A., Ph.D., University of Iowa, Research Hydrologist, USDA Forest Service, C
Meadows, James S., Ph.D., Mississippi State University, Research Forester, USDA Forest Service, C
Ouyang, Ying, Ph.D., Oregon State University, Research Hydrologist, USDA Forest Service, C
Page, Grier P., Ph.D., University of Texas Health Science Center, Senior Statistical Geneticist, RTI International, Adjunct Professor, University of Alabama-Birmingham, C
Parker, Robert C., Ph.D., University of Georgia, Professor (retired), C
Schoenholtz, Stephen H., Ph.D., Virginia Polytechnic and State University, Director of VA Water Resources Research Center, Professor of Forest Hydrology and Soils, Virginia Tech, C
Souter, Ray A., Ph.D., University of Georgia, Research Forester, USDA Forest Service, C
Spetich, Martin A., Ph.D., Purdue University, Research Forester, USDA Forest Service, C
Strub, Mike R., Ph.D., Virginia Polytechnic Institute and State University, Scientific Advisor, Weyerhaeuser, C
Vozzo, John A., Ph.D., George Washington University, Emeritus Scientist, USDA Forest Service, C
West, Ben C., Ph.D., Utah State University, Regional Director, University of Tennessee Extension, C

Wildlife, Fisheries and Aquaculture
Level 1
Allen, Peter J., Ph.D., University of California, Davis, Assistant Professor
Belant, Jerrold L., Ph.D., University of Alaska, Assistant Professor
Boyd, Christopher A., Ph.D., Auburn University, Assistant Extension Professor
Burger, L. Wes, Ph.D., University of Missouri, Professor
D’Abramo, Louis R., Ph.D., Yale University, Professor; Dean of the Graduate School and Associate Vice President for Academic Affairs
Davis, J. Brian, Ph.D., Mississippi State University, Assistant Professor
Demaraais, Stephen, Ph.D., Mississippi State University, Professor
Dibble, Eric D., Ph.D., University of Arkansas, Professor
Ervin, Gary N., Ph.D., The University of Alabama, Associate Professor
Guyton, John William, III, Ed.D., Mississippi State University, Associate Extension Professor
Hunt, Kevin M., Ph.D., Texas A&M University, Associate Professor
Jack, Sherman Wessel, D.V.M., The Ohio State University; Ph.D., Purdue University, Professor
Jackson, Donald C., Ph.D., Auburn University, Professor
Jones, Jeanne C., Ph.D., Mississippi State University, Professor
Jones, W. Daryl, Ph.D., Mississippi State University, Associate Research Professor
Kaminski, Richard M., Ph.D., Michigan State University, Professor and Associate Dean of College of Forest Resources
Kroger, Robert, Ph.D., University of Mississippi, Assistant Professor
Leopold, Bruce D., Ph.D., University of Arizona, Professor and Department Head
Li, Menghe H., Ph.D., Auburn University, Research Professor
Martin, James A., Ph.D., University of Georgia, Assistant Professor
Miranda, Leandro E., Ph.D., Mississippi State University, Professor
Mischke, Charles C., Ph.D., Iowa State University, Research Professor
Neal, Jason Wesley, Ph.D., North Carolina State University, Assistant Extension Professor
Riffell, Samuel Keith, Ph.D., Michigan State University, Associate Professor
Schramm, Harold L., Jr., Ph.D., Southern Illinois University, Carbondale, Unit Leader and Professor
Strickland, Bronson K., Ph.D., Mississippi State University, Assistant Extension Professor
Tucker, Craig S., Ph.D., Auburn University, Research Professor and Director, Delta Research and Extension Center
Vilella, Francisco, Ph.D., Louisiana State University, Assistant Unit Leader and Assistant Professor
Wang, Guiming, Ph.D., Oregon State University, Assistant Professor

Participant (T=Teach; C=Committee Member)
Anderson, David K., Ph.D., Texas A&M University, Staff Scientist/Recreation Specialist, Kleinschmidt Associates, C
Avery, Jimmy L., Ph.D., Louisiana State University, Extension Professor, Delta Research and Extension Center, C
Barbour, Philip J., Ph.D., Mississippi State University, Wildlife Biologist, National Agricultural Wildlife Conservation Center, C
Beyer, Dean E., Jr., Ph.D., Michigan State University, Research Biologist, Michigan department of Natural Resources, C
Brasher, Michael G., Ph.D., Ohio State University, Biological Team Leader/Waterfowl Science Coordinator, C

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<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brunjes, Kristina J.</td>
<td>Ph.D., Texas Tech University, Big Game Program Coordinator, Kentucky Department of Fish and Wildlife Resources, C</td>
</tr>
<tr>
<td>Collazo, Jaime A.</td>
<td>Ph.D., Iowa State University, Professor, North Carolina State University, C</td>
</tr>
<tr>
<td>Cunningham, Fred L.</td>
<td>D.V.M., Mississippi State University, Project Leader and Supervisory Research Biologist, C</td>
</tr>
<tr>
<td>DeVault, Travis L.</td>
<td>Ph.D., Purdue University, Field Station, Project Leader, NWR/C, APHIS, C</td>
</tr>
<tr>
<td>DeYoung, Randall W.</td>
<td>Ph.D., Mississippi State University, Assistant Professor, Texas A&amp;M University, C</td>
</tr>
<tr>
<td>Dorr, Brian S.</td>
<td>Ph.D., Mississippi State University, Research Wildlife Biologist, USDA, C</td>
</tr>
<tr>
<td>Duguay, Jeffrey P.</td>
<td>Ph.D., Mississippi State University, Instructor, C, T</td>
</tr>
<tr>
<td>Gardner, Beth</td>
<td>Ph.D., Cornell University, Assistant Professor, North Carolina State University, C</td>
</tr>
<tr>
<td>Gee, Kenneth L.</td>
<td>Ph.D., M.S., Texas A&amp;M University, Senior Wildlife Researcher, C</td>
</tr>
<tr>
<td>Gill, Duane A.</td>
<td>Ph.D., Texas A&amp;M University, Professor, C</td>
</tr>
<tr>
<td>Godwin, K. David</td>
<td>M.S., Mississippi State University, Wildlife Research and Small Game Coordinator, MS Department of Wildlife, Fisheries and Parks, C</td>
</tr>
<tr>
<td>Godwin, Kris</td>
<td>M.S., Mississippi State University, State Director, USDA Wildlife Services, Operations Division, T</td>
</tr>
<tr>
<td>Gray, Matthew J.</td>
<td>Ph.D., Texas Tech University, Associate Professor, University of Tennessee, C</td>
</tr>
<tr>
<td>Griffin, Robert N.</td>
<td>M.S., Mississippi State University, Former Administrator, MS Department of Wildlife, Fisheries and Parks, T</td>
</tr>
<tr>
<td>Hartfield, Paul M.</td>
<td>M.S., University of Southern Mississippi, Endangered Species Biologist, U.S. Fish and Wildlife Service, C</td>
</tr>
<tr>
<td>Jones, Phillip D.</td>
<td>Ph.D., Mississippi State University, Assistant Scientist, University of Wisconsin-Madison, C</td>
</tr>
<tr>
<td>Killgore, K. Jack Jr.</td>
<td>Ph.D., University of Mississippi, Research Fishery Biologist, US Army Engineer R&amp;D Center, C</td>
</tr>
<tr>
<td>Meals, Keith</td>
<td>M.S., Auburn University, Conservation Resources Management Biologist, C</td>
</tr>
<tr>
<td>Miller, Darren A.</td>
<td>Ph.D., Mississippi State University, Wildlife Research Manager, Weyerhaeuser, C</td>
</tr>
<tr>
<td>Millsbaugh, Joshua J.</td>
<td>Ph.D., University of Washington, Professor and Pauline O'Connor Distinguished Professor, University of Missouri, C</td>
</tr>
<tr>
<td>Moore, Matthew T.</td>
<td>Ph.D., University of Mississippi, Research Ecologist, USDA ARS, C</td>
</tr>
<tr>
<td>Palmer, William E.</td>
<td>Ph.D., North Carolina State University, Senior Scientist and Associate Research Director, C</td>
</tr>
<tr>
<td>Penny, Edward J.</td>
<td>M.S., Mississippi State University, Migratory Game Bird Program Coordinator, MS Department of Wildlife, Fisheries, and Parks, C</td>
</tr>
<tr>
<td>Peterson, Mark S.</td>
<td>Ph.D., University of Southern Mississippi, Professor, University of Southern Mississippi, C</td>
</tr>
<tr>
<td>Pierce, Samuel C.</td>
<td>Ph.D., University of Memphis, Research Associate III, T</td>
</tr>
<tr>
<td>Reinecke, Kenneth J.</td>
<td>Ph.D., University of Maine, Wildlife Biologist, C</td>
</tr>
<tr>
<td>Richardson, David</td>
<td>M.S., Mississippi State University, Wildlife Biologist, U.S. Fish and Wildlife Service, Noxubee National Wildlife Refuge, C</td>
</tr>
<tr>
<td>Schultz, Rachel E.</td>
<td>Ph.D., The Ohio State University, Research Associate II, Wildlife, Fisheries and Aquaculture, C</td>
</tr>
<tr>
<td>Schummer, Michael L.</td>
<td>Ph.D., University of Western Ontario, Post-Doctoral Associate, C</td>
</tr>
<tr>
<td>Shropshire, Catherine</td>
<td>Ph.D., Mississippi State University, Executive Director, MS Wildlife Federation, C</td>
</tr>
<tr>
<td>Smith, Mark D.</td>
<td>Ph.D., Mississippi State University, Assistant Professor, Auburn University, C</td>
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<tr>
<td>Steeby, James A.</td>
<td>Ph.D., Mississippi State University, Associate Extension Professor/Extension Specialist (retired), C</td>
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<tr>
<td>Taylor, Jimmy D.</td>
<td>Ph.D., Mississippi State University, Supervisor Research Wildlife Biologist, USDA-National Wildlife Research Center, Corvallis, OR, C</td>
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<tr>
<td>Torrans, Les</td>
<td>Ph.D., University of Oklahoma, Research Fishery Biologist, USDA ARS, Thad Cochran National Warmwater Aquaculture Center, C</td>
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<td>West, Ben C.</td>
<td>Ph.D., Utah State University, Regional Director, University of Tennessee Extension, C</td>
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<td>Wigley, Thomas Bently</td>
<td>Jr., Ph.D., Mississippi State University, Manager, Sustainable Forestry Research Program, National Council for Air and Stream Improvement, Inc, C</td>
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<tr>
<td>Yager, Lisa Y.</td>
<td>Ph.D., Mississippi State University, Research and Collections Coordinator, Mississippi Museum of Natural Science, C</td>
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**COLLEGE OF VETERINARY MEDICINE**

**Level 1**

- Bailey, R. Hart, Ph.D., Texas A & M University, Associate Professor (Pathobiology and Population Medicine)
- Carr, Russell, Ph.D., Mississippi State University, Associate Professor (Environmental Toxicology)
- Chambers, Janice E., Ph.D., Mississippi State University, Director of Center for Environmental Health Sciences and Professor (Basic Sciences)
- Coyne, Cody P., D.V.M., Ph.D., University of California, Professor (Basic Science)
- Eells, Jeffrey B., Ph.D., Southern Illinois University, Associate Professor (Basic Science)
- Hanson, Larry, Ph. D., Louisiana State University, Professor (Basic Sciences)
Rashmir-Raven, Ann, D.V.M., University of California-Davis, Associate Professor, Michigan State University, C
Samuelson, Don Arthur, Ph.D., University of Florida, Professor, University of Florida, C
Sharif, Shayan, D.V.M., University of Tehran (Iran); Ph.D., University of Guelph (Canada), Associate Professor, University of Guelph (Canada), C
Solangi, Mobashir A., Ph.D., University of Southern Mississippi, President, Marine Life Oceanarium, Inc., C
Vanderpool, Delphine, M.D., University of Southern California, Assistant Director of Research, Institute of Marine Mammal Studies, C
Waldbieser, Geoff, Ph.D., Purdue University, Research Molecular Biologist, USDA-ARS, C
Wise, David, Ph.D., Clemson University, Aquaculture Specialist, Delta Research and Extension Center, C
Wolters, William, Ph.D., Purdue University, Research Geneticist, USDA-ARS, C
Yang, Raymond S.H., Ph.D., North Carolina State University, Professor, Colorado State University, C
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de la Cruz, Armando A., Ph.D., University of Georgia, Professor Emeritus of Biological Sciences

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Emerich, Don, Ph.D., Penn State, Professor Emeritus of Chemistry

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England, William T., Ph.D., University of Virginia, Professor Emeritus of Mathematics and Statistics

Epps, James W., P.E., Ph.D., Clemson University, Professor Emeritus of Civil Engineering

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Gassaway, James D., Ph.D., Purdue University, Professor Emeritus of Electrical and Computer Engineering

Gatlin, Boyd, Ph.D., Mississippi State University, Associate Professor Emeritus of Aerospace Engineering

George, Anita P., Ed.D., Mississippi State University, Professor Emerita of Curriculum and Instruction, and Director, MSU Learning Center

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Gourley, Lynn M., Ph.D., Purdue University, Professor Emeritus of Plant and Soil Sciences

Graves, Clinton H., Jr., Ph.D., University of Wisconsin, Professor Emeritus of Plant Pathology

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Grootkerk, Paul, Ph.D., Case Western Reserve University, Professor Emeritus of Art and Slide Librarian

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Guyton, Robert D., M.S., Purdue University, Professor Emeritus of Electrical Engineering

Hall, William B., P.E., Ph.D., Mississippi State University, Professor Emeritus of Chemical Engineering
Robbins-Herring, Kittye D., Ph.D., University of Kentucky, Associate Professor Emerita of Foreign Languages
Rogers, Jerry W., P.E., Ph.D., Auburn University, Professor Emeritus of Electrical and Computer Engineering
Rogers, Robert W., Ph.D., University of Kentucky, Professor Emeritus of Animal and Dairy Sciences, Professor Emeritus of Food Science and Technology, and Director Emeritus of the Food Science Institute
Ross, Roy D., Ph.D., Associate Professor Emeritus of Forestry
Ruby, Roy H., Ed.D., University of Mississippi, Dean Emeritus of Education and Vice President Emeritus for Student Affairs
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Saunders, J.V.D., Ph.D., University of Florida, Professor Emeritus of Sociology
Scholtes, Robert M., Ph.D., Georgia Institute of Technology, Professor and Head Emeritus of Civil Engineering
Schultz, Clarence M.S., Auburn University, Associate Professor Emeritus of Poultry Science
Scott, Charley, Ph.D., Purdue University, Dean Emeritus of the Graduate School
Scott, Roy V., Ph.D., University of Illinois, Distinguished Professor Emeritus of History
Sellers, Terry, Jr., Ph.D., University of Tokyo, Professor Emeritus of Forest Products
Shafer, Gary, M.Arch., Kent State University, Professor Emeritus of Architecture
Shepard, W. Steve, Ph.D., Mechanical Engineering, Professor Emeritus of Aerospace Engineering and Director Emeritus of the Diagnostic Instrumentation Analysis Laboratory
Shillingburg, Miriam J., Ph.D., University of South Carolina, Professor Emerita of English
Shindala, Adnan, P.E., Ph.D., Virginia Polytechnic Institute and State University, Professor Emeritus of Civil Engineering
Smith, Linda K., M.M., Indiana University, Professor Emerita of Music Education
Smith, Tom W., Jr., Ph.D., Texas A&M University, Professor Emeritus of Poultry Science and Extension Poultry Science Specialist
Smyer, William N., Ph.D., Auburn University, Professor Emeritus of Industrial and Systems Engineering
Snell, Susan, Ph.D., University of North Carolina, Associate Professor Emerita of English
Snow, Ronald W., Ph.D., University of Illinois, Research Professor Emeritus
Sollie, C. Raymond, Ph.D., Mississippi State University, Professor Emeritus of Sociology
Solomon, Jimmy L., Ph.D., Texas A & M University, Professor Emeritus of Mathematics and Statistics and Dean Emeritus of the College of Arts and Sciences
Sparrow, Charles A., P.E., Ph.D., Georgia Institute of Technology, Professor Emeritus of Chemical Engineering
Spikes, Paul W., Ph.D., Auburn University, Professor Emeritus of Mathematics and Graduate Coordinator Emeritus of Mathematics and Statistics
Spirrison, Charles L., Ph.D., University of Southern Mississippi, Professor Emeritus of Psychology
Still, Richard L., L.L.M., Georgetown University, Assistant Professor Emeritus of Business Law
Sullivan, Michael J., Ph.D., University of Delaware, Professor Emeritus of Biological Sciences
Sunderman, Paula W., Ph.D., University of Wisconsin-Madison, Associate Professor Emerita of English
Swain, Margaret, M.S., University of Oklahoma, Professor Emerita of Social Work
Takacs, Helen, Ph.D., University of Alabama, Professor Emerita of Computer Science and Engineering
Tatum, David H., Ph.D., Mississippi State University, Professor Emeritus and Extension Specialist Emeritus of Plant and Soil Sciences
Taylor, Clayborne D., Ph.D., New Mexico State University, Professor Emeritus of Physics and Astronomy, Professor Emeritus of Electrical and Computer Engineering and Dean Emeritus of Continuing Education
Taylor, Fred W., Ph.D., North Carolina State University, Professor Emeritus of Forest Products
Taylor, Robert P., Jr., Ph.D., Mississippi State University, Professor Emeritus of Mechanical Engineering and Associate Dean Emeritus of the Bagley College of Engineering
Thomas, Charles H., Ph.D., North Carolina State University, Professor Emeritus of Poultry Science
Thompson, Paul G., Ph.D., North Carolina State University, Research Scientist, Extension Specialist and Professor Emeritus of Horticulture
Thompson, Warren S., Ph.D., North Carolina State University, Professor Emeritus of Forest Products
Thorne, B. Michael, Ph.D., Louisiana State University, Professor Emeritus of Psychology
Tilley, John L., Ph.D., University of Florida, Professor Emeritus of Mathematics
Trevathan, Larry E., Ph.D., Virginia Polytechnic Institute and State University, Professor Emeritus of Plant Pathology
Trotter, J. Donald, P.E., Ph.D., University of Texas, Associate Vice President Emeritus for Strategic Planning
Underwood, Joe Ray, Ph.D., University of Wisconsin, Professor Emeritus of Counseling, Educational Psychology, and Special Education
Vanderford, Harvey B., Ph.D., University of Missouri, Professor Emeritus of Agronomy
Vaughan, Charles E., Ph.D., North Carolina State University, Professor Emeritus of Agronomy
Verhoek-Miller, Nancy A., Professor Emerita of Curriculum, Instruction, and Special Education
Verrall, George L., D.B.A., Mississippi State University, Professor Emeritus of Economics
Waldhalm, Stephen J., D.V.M., Ph.D., Washington State University, Professor Emeritus of Veterinary Physiology
Wall, Diane E., Ph.D., Michigan State University, Associate Professor Emerita of Political Science and Public Administration
Ward, Billy C., Ph.D., University of California-Davis, Professor Emeritus of Veterinary Medicine
Warsi, Zahir U.A., Ph.D., Lucknow University, Professor Emeritus of Aerospace Engineering
Watson, James R., Jr., Ph.D., Iowa State University, Professor Emeritus of Biological Sciences
Watson, William F., Jr., Ph.D., North Carolina State University, Professor Emeritus of Forestry
Wells, J. Gipson, Ph.D., Florida State University, Professor Emeritus of Sociology
Wells-Parker, Elisabeth N., Ph.D., Duke University, Professor Emerita of Psychology
Whisler, Frank D., Ph.D., University of Illinois, Professor Emeritus of Plant and Soil Sciences
White, Charles H., Ph.D., University of Missouri, Professor Emeritus of Food Science, Nutrition and Health Promotion
White, Jack H., Ph.D., Texas Tech University, Associate Professor Emeritus of English and Director Emeritus of University Honors Program
White, Larry R., Ph.D., University of Georgia, Associate Professor Emeritus of Finance
Williams, Clyde V., Ph.D., Louisiana State University, Associate Professor Emeritus of English
Williams, Jerry D., M.M., Northwestern University, Professor Emeritus of Music Education
Williams, Michael R., Ph.D. Auburn University, Extension Professor Emeritus of Entomology
Willman, Robert I., Ph.D., Harvard University, Associate Professor Emeritus of History
Wills, Gene D., Ph.D., Oklahoma State University, Plant Physiologist Emeritus at Delta Research and Extension Center, Stoneville, Mississippi, Courtesy Professor Emeritus in Weed Science
Wilson, C. Arlie, M.S., Iowa State University, Professor Emeritus of Entomology
Wilson, Robert P., Ph.D., University of Missouri, Professor Emeritus of Biochemistry and Molecular Biology
Wilson, W. William, Ph.D., University of North Carolina, Giles Distinguished Professor Emeritus of Chemistry
Young, David F., Jr., Ph.D., Mississippi State University, Professor Emeritus of Entomology
Zitta, Victor L., Ph.D., Virginia Polytechnic Institute, Professor Emeritus of Civil Engineering
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Quick Reference to Degrees, Programs, and Admission Requirements

Degrees Offered:
- Master of Agribusiness Management (M.A.B.M.)
- Master of Arts (M.A.)
- Master of Arts in Teaching (M.A.T.)
- Master of Arts in Teaching-Secondary (M.A.T.S.)
- Master of Business Administration (M.B.A.)
- Master of Engineering (M.Eng.)
- Master of Landscape Architecture (M.L.A.)
- Master of Professional Accountancy (M.P.A.)
- Master of Public Policy and Administration (M.P.P.A.)
- Master of Science (M.S.)
- Master of Science in Business Administration
- Master of Science in Information Systems (M.S.I.S.)
- Master of Science in Instructional Technology (M.S.I.T.)
- Master of Taxation (M.TX.)
- Educational Specialist (Ed.S.)
- Doctor of Education (Ed.D.)
- Doctor of Philosophy (Ph.D.)

Abbreviations for Majors and Concentrations (alpha order by name):

ACC Accounting
ASE Aerospace Engineering
AGBM Agribusiness Management
AEC Agricultural Economics
AEE Agricultural and Extension Education
AGS Agricultural Sciences
ALSC Agricultural Life Sciences
AGR Agriculture
AGN Agronomy
ADS Animal and Dairy Science
ANNT Animal Nutrition
APY Animal Physiology
ASC Animal Science
APAN Applied Anthropology
APHY Applied Anthropology
BCH Biochemistry
BE Biological Engineering
BIO Biological Sciences (also see General Biology)
BME Biomedical Engineering
BA Business Administration
BUSI Business Administration (Meridian)
BIS Business Information Systems
CHE Chemical Engineering
CH Chemistry
CE Civil Engineering
COG Cognitive Science
PHCE Post-secondary Counseling & Personnel Services
CED Community College Education
PHCL Community College Leadership
CME Computational Engineering
COPE Computer Engineering
CS Computer Science
COE Counselor Education
PHSE Counselor Ed/Stdnt Counseling & Guidance Serv
CIED Curriculum and Instruction
EASC Earth & Atmospheric Sciences
EC Economics (also see GAEC)
EDUC Education
ET Educational Technology
EPY Educational Psychology
EE Electrical Engineering
EDLE Elementary Education
EDAD Elem, Mid, & Sec Educ Administration
ENGR Engineering (see M.ENG)
ENGT Engineering Technology
EN English
ENPP Entomology and Plant Pathology
ENVT Environmental Toxicology
FIN Finance
NFSH Food Science, Nutrition & Health Promotion
FST Food Science and Technology
FL Foreign Language
FP Forest Products
FOR Forest Resources
FO Forestry
GG Geosciences (also Earth & Atmospheric Sci)
GBIO General Biology
GNS Genetics
GAEC Grad Applied Economics
HLPR Health Promotion
HO Horticulture
IE Industrial Engineering
ISE Industrial & Systems Engineering
INFS Information Systems
ISWD Instructional Systems & Workforce Development
IT Instructional Technology
IDS Interdisciplinary Sciences
KI Kinesiology
LA Landscape Architecture
LFSC Life Sciences
MGT Management
MKT Marketing
MASC Mathematical Sciences
MA Mathematics
ME Mechanical Engineering
MOLB Molecular Biology
NTR Nutrition
PH Physics
PS Political Science
PO Poultry Science
PM Project Management
PSY Psychology
PPA Public Policy & Administration
EDLS School Administration
SPSY School Psychology
SEED Secondary Education
STAR Secondary Teacher Alternate Route
SO Sociology
EXED Special Education
ST Statistics
TAX Taxation
MST Technology
VMS Veterinary Medicine Science
WS Weed Science
FOWL Wildlife and Fisheries
WLE Wildlife and Fisheries Science
WEL Workforce Education Leadership

Other:
- GPA Grade Point Average
- GMAT Graduate Management Admission Test
- GRE Graduate Record Examination
- IELTS International English Language Testing Systems
- TOEFL Test of English as a Foreign Language

Chart below is in alpha order by abbreviation of major.
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*"Yes" indicates that the standardized test is required.*