STUDENT RESPONSIBILITY DISCLAIMER

Each student is responsible for understanding and completing all requirements established for his or her degree by the University, college, and department. A student’s advisor may not assume that responsibility. Any substitution, waiver, or exemption from established degree requirements may be accomplished only with the approval of the appropriate faculty/administrators.

This Bulletin presents information which, at the time of preparation for printing, most accurately described the courses, curricula, degrees, policies, procedures, regulations, and requirements of the University. No contractual relationships, however, can be established between students and the University upon the information contained herein. The University reserves the right to delete, substitute for, change, or supplement any statement in this Bulletin without prior notice.

Mississippi State University does not discriminate on the basis of race, color, religion, national origin, sex, age, disability, sexual orientation, group affiliation, or veteran status.
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PRESIDENT’S CABINET / OFFICERS OF THE UNIVERSITY

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DON A. ZANT ........................................ Vice President for Budget and Planning
JOAN L. LUCAS ........................................ General Counsel
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SCOTT A. STRICKLIN ................................ Director of Athletics

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STEVEN F. BROWN, Ph.D. .................................................. Dean, MSU Meridian Campus
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ACHILLE MESSAC, Ph.D. ........................................ Dean, Bagley College of Engineering
CHRISTOPHER A. SNYDER, Ph.D. ........................................ Dean, Shackouls Honors College
JAMES L. WEST, M.Arch. ........................................ Dean, College of Architecture, Art, and Design

MISSISSIPPI BOARD OF TRUSTEES
OF STATE INSTITUTIONS OF HIGHER LEARNING

Officers of the Board

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AUBREY PATTERSON ........................................ Vice President
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DOUGLAS W. ROUSE
C. D. SMITH, JR.

The Board maintains offices at 3825 Ridgewood Road, Jackson, Mississippi.
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.grad.msstate.edu/
Telephone: 662-325-7400
Fax: 662-325-1967

For information regarding admissions, application status, academic records, graduate assistantships, 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 Office of the Graduate School or the appropriate department.

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
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 Center for Distance 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, Food Science, Nutrition and Health Promotion
College of Agriculture and Life Sciences

Scott Roberts, Ph.D., 2015, Elected, Vice Chair
Professor, Forestry
College of Forest Resources

Ex Officio Members
Amy Adkerson
Associate Registrar

Lori Mann Bruce, Ph.D.
Associate Vice President and Dean of the Graduate School

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

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

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

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

Jon Rezek, Ph.D.
Interim Associate Vice President & Executive Director, International Institute

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

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

Kirk Swortzel, Ph.D.
Chair, University Committee on Courses and Curricula

Steve Taylor, Ph.D.
Executive Director, Center for Distance Education

Elected Members
David Lewis, Ph.D., 2014
Associate Professor, Architecture

Tommy Anderson, Ph.D., 2015
Associate Professor, English
College of Arts and Sciences

Pasquale Cinnella, Ph.D., 2015
Professor and Head, Aerospace Engineering
College of Engineering

To Be Named

To Be Named
**Appointed Members**

Dwight Hare, Ph.D., 2014  
Professor, Leadership and Foundations  
College of Education

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

Dana Franz, Ph.D., 2015  
Associate Professor, Curriculum, Instruction, and Special Education  
College of Education

Daniel Reynolds, Ph.D., 2015  
Professor, Plant and Soil Sciences  
College of Agriculture and Life Sciences

To Be Named

To Be Named

To Be Named

Vemitra White, 2014  
President, Graduate Student Association
**GRADUATE ACADEMIC CALENDAR**

**Fall Semester 2013**

July 1* ................................................................. Last day for domestic applicants to complete admission process for Fall

August 1 .................................................................................................................. TAGGS online registration
August 2 .................................................. Last day for initial submission of thesis/dissertation to Library for December graduation
August 5-9 ........................................................................................................... International Teaching Assistant Workshop
August 9 ................................................... Last day for final submission of thesis/dissertation to Library for December graduation
August 12-16 ........................................................................................................ General Teaching Assistant Workshop
August 15 ........................................................................................................... Final registration and payment of fees
August 16 (1:00 PM, Swalm Auditorium) ............................................................... New Graduate Student Orientation
August 19 ........................................................................................................... Classes begin
August 19-October 15 .......................................................................................... Apply online for December graduation; $50 fee
August 23 ............................................................................................................. Last day to drop a class without a grade
August 26 ............................................................................................................. Last day to register or to add a course

September 1* .................................. Last day for international applicants to complete Spring admission process
September 2 ............................................................................................................. Holiday
September 30 ..................................................................................................... Last day to drop a course with a W grade

October 7 .............................................................................................................. Midpoint of semester
October 15 .................................................. Last day to apply online for December graduation; $50 fee
October 16-October 31 .......................................................... Late online application for December graduation; $50 fee plus $50 late fee
October 21-November 1 .......................................................................................... Faculty advising for preregistration
October 24-25 (Dates subject to change) .................................................................. Fall Break
October 25 .......................................................... Last day for thesis/dissertation defense or non-thesis comprehensive exam/Dec graduation
October 31 ............................................................................................................. Last day to apply for December graduate; $50 fee + $50 late fee

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 .................................................. Last day to submit signed examination results to the Graduate School for December graduation
November 1-December 3 .......................................................... Very late online application for December graduation; $50 fee plus $200 late fee
November 4-15 ........................................................................................................ Primary Spring pre-registration
November 14 ........................................................................................................ Last day to withdraw from the University
November 22 .................................................. Last day to submit Library-approved thesis/dissertation to Library for December graduation
November 27 ........................................................................................................ Last day for initial submission of thesis/dissertation to Library for May graduation and no Spring semester enrollment required
November 27-29 ..................................................................................................... Thanksgiving Holiday

December 2 ............................................................................................................. Classes resume
December 3 .................................................. Last day for very late online application for December graduation; $50 fee plus $200 late fee
December 3 ............................................................................................................. Classes end
December 4-5 .......................................................... Reading Days (No mandatory class assignments, requirements, meetings)
December 6 ........................................................................................................... Last day for final submission of thesis/dissertation to Library for May graduation and no Spring semester enrollment required
December 6, 9-12 .................................................................................................. Final examinations
December 13 ........................................................................................................ Starkville Campus Commencement ceremony for all colleges
December 23-January 2 ......................................................................................... Holiday

December 14 (10:00 A.M.)
Spring Semester 2014

January 6-11..............................General Teaching Assistant Workshop
January 10............................................................. New Graduate Student Orientation
January 10............................................................. Final registration
January 13............................................................. Classes begin
January 13-February 28.................................Apply online for May graduation; $50 fee
January 17............................................................. Last day to drop a class without a grade
January 20............................................................. Holiday
January 21............................................................. Last day to register or add a class

February 1..............................Last day for doctoral preliminary/comprehensive examination/August graduation
February 24................................Last day to drop a course with a W grade
February 28..............................Last day to apply for May graduation; $50 fee

March 1*..............................Last day for international applicants to complete admission process for all Summer terms
March 1-31..............................Late application via MyState for May graduation; $50 fee plus $50 late fee
March 3...........................................................................Mid-point of semester
March 10-14..............................Spring Break (dates subject to change)
March 17..............................Classes resume
March 17-31..............................Faculty advising for preregistration
March 21..............................Last day/thesis/dissertation defense and non-thesis comprehensive exam/May graduation
March 31..............................Last day to apply for May graduation; $50 fee plus $50 late fee

April 1*..............................Last day/domestic applicants to complete admission process for Maymester, 1st 10-week Summer
April 1-14..............................Primary registration for Summer and Fall semesters
April 1-30..............................Very late application via MyState for May graduation; $50 fee plus $200 late fee
April 4..............................Last day to submit signed examination results to the Graduate School/May graduation
April 4..............................Last day for initial submission of thesis/dissertation to the Library/May graduation
April 15..............................Last day to withdraw from the University
April 18..............................Holiday
April 25..............................Last day for submission of Library-approved thesis/dissertation to the Library/May graduation
April 30..............................Last day to apply for May graduation; $50 fee plus $200 late fee
April 30..............................Classes end

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 1, 2..............................Reading, make-up days if needed
May 2..............................Last day for initial submission of thesis/dissertation to Library for August graduation and no Summer enrollment required
May 5-9..............................Final examinations
May 9..............................Last day for final submission of thesis/dissertation to Library for August graduation and no Summer enrollment required
May 10..............................Final examination make-up day, if needed
May 16, 7:00 P.M..............................Commencement
                                Bagley College of Engineering; Swalm School of Chemical Engineering;
                                College of Veterinary Medicine; College of Agriculture & Life Sciences;
                                School of Human Sciences; College of Forest Resources
                                College Of Education

May 17, 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 2014 Calendar
to be posted on Graduate School Website
http://www.grad.msstate.edu/academic_calendar/
MISSISSIPPI STATE UNIVERSITY

VISION
Mississippi State University will be a leading public research university that is globally aware and involved, accessible and responsive to the many constituencies it serves, and fully integrated with the intellectual, social, and economic development of the state, while delivering excellent programs of teaching, research, and service.

MISSION
Mississippi State University is a public, land-grant university whose mission is to provide access and opportunity to students from all sectors of the state’s diverse population, as well as from other states and countries, and to offer excellent programs of teaching, research, and service.

Enhancing its historic strengths in agriculture, natural resources, engineering, mathematics, and natural and physical sciences, Mississippi State offers a comprehensive range of undergraduate and graduate programs; these include architecture, the fine arts, business, education, the humanities, the social and behavioral sciences, and veterinary medicine.

The university embraces its role as a major contributor to the economic development of the state through targeted research and the transfer of ideas and technology to the public, supported by faculty and staff relationships with industry, community organizations, and government entities.

Building on its land-grant tradition, Mississippi State strategically extends its resources and expertise throughout the entire state for the benefit of Mississippi’s citizens, offering access for working and place-bound adult learners through its Meridian Campus, Extension, and distance learning programs.

Mississippi State is committed to its tradition of instilling among its students and alumni ideals of diversity, citizenship, leadership, and service.

THE GRADUATE SCHOOL
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.

**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.

**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 where 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]
Political Science (T; NT) [1]

**Master of Arts in Teaching**

Community College Education (NT) [1, 2, 5]

**Master of Arts in Teaching-Middle Level**

Middle Level Alternate (NT) [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]

**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]
  Concentrations:
   Leadership (T; NT) [1]
   Teaching (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 Science (T; NT) [1, 5]
Counselor Education
  Concentrations:
   Clinical Mental Health (NT) [1, 2]
   College Counseling (NT) [1]
   Rehabilitation (NT) [1]
   School Counseling (NT) [1, 2]
   Student Affairs (NT) [1]
Educational Psychology (T; NT) [1]
  Concentrations:
   General Educational Psychology (NT) [1]
   Psychometry (NT) [1]
Electrical and Computer Engineering (T; NT) [1, 5]
Elementary Education
  Concentrations:
   Early Childhood Education (NT) [1, 2]
   General Education (NT) [1, 2]
   Middle Level 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
  Concentrations:
   Applied Meteorology (NT) [5]
   Broadcast Meteorology (NT) [1]
   Environmental Geosciences (T) [1]
   Geography (T) [1]
   Geology (T) [1]
   Geospatial Sciences (T) [1]
   Professional Meteorology/Climatology (T) [1]
   Teachers in Geosciences (NT) [5]

Industrial Engineering (T; NT) [1, 5]
Kinesiology
  Concentrations:
   Exercise Physiology (T; NT) [1]
   Sports Pedagogy (T; NT) [1]
   Sports Administration (T; NT) [1]
   Mathematics (T; NT) [1]
   Mechanical Engineering (T; NT) [1, 5]
   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 Sciences (T) [1]
   Workforce Education Leadership (NT) [5]

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 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 Science [1]
Counselor Education/Student Counseling and Guidance Services [1]
Curriculum and Instruction
  Concentrations:
  Early Childhood Education [1]
  Elementary Education [1]
  Special Education [1]
Earth and Atmospheric Sciences [1]
Educational Psychology
  Concentrations:
  General Educational Psychology [1]
  School Psychology [1]
Electrical & Computer 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, 5]
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.

MERIDIAN CAMPUS
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 comprised of two campuses. The College Park campus is located on 26 acres at 1000 Highway 19 North in Meridian, a short drive northwest of Exit 150 off Interstates 20/59. The Downtown Campus is located in the heart of Meridian’s downtown, off 22nd Avenue and 5th Street.

**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 at MSU-Meridian 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.

**Business:**
- Master of Business Administration

**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.

**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. Marshall Molen. E-mail: molen@ece.msstate.edu
- Computational Biology. Coordinator: Dr. Andy Perkins. E-mail: ap335@msstate.edu
- Diversity. Coordinator: Dr. Alan Marcus. E-mail: aimarcus@history.msstate.edu
- Gender Studies. Coordinator: Dr. Kimberly Kelly. E-mail: kk435@msstate.edu
- Geospatial and Remote Sensing. Coordinator: Rita Burrell. E-mail: rburrell@bagley.msstate.edu
- Geospatial and Remote Sensing Technologies. Coordinator: Dr. David R. Shaw. E-mail: dshaw@gri.msstate.edu
- Gerontology. Coordinator: Dr. Joe Wilmoth. E-mail: jwilmoth@humanci.msstate.edu
- Information Assurance Professional Certificate. Coordinator: Dr. David Dampiere. E-mail: dampiere@cse.msstate.edu
- Manufacturing. Coordinator: Contact Ms. Rita Burrell. Email: rburrell@bagley.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: Contact Ms. Rita Burrell. E-mail: rburrell@bagley.msstate.edu
- Teaching of English to Speakers of Other Languages (TESOL). Coordinator: Dr. Ginger Pizer. E-mail: gbp31@msstate.edu
- Veterans’ Certificate Program. Coordinator: Dr. LindaCornelious. E-mail: lCornelious@colled.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 derived from a master’s or doctoral degree program or 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 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).

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/.

MSU LIBRARY SYSTEM
http://library.msstate.edu

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).

The Libraries offer extensive research assistance for graduate students in person, by appointment, and virtually. The Reference Desk is staffed in person and via Chat with our research librarian faculty for 60 hours per week. These librarians are each subject specialists who are available by appointment to aid at any point in research or to serve as an introduction to all the Library has to offer.

The Reference Department within the University Libraries provides group tables and individual study carrels as well as 41 desktop computers with black/white and color printing and adaptive technologies along with specialized print and electronic resources to further explore research interests or assist in investigating new areas of disciplines. The Reference Department is a strong resource when developing new areas of research.

For teaching assistants, research librarians are available to teach Library orientations, advanced research skills, and specialized workshops per request. Additionally, they are available to create class-specific online research guides that can be integrated with MyCourses.

The Libraries are also a 95% U.S. government document depository, as well as acting as a depository of United Nations documents. In addition to the print collection, more and more appears digitally in the
Libraries’ Online Catalog. Older documents, as well as newspaper and historical documents, are also located in the microform collection. The Library has a complete collection of Mississippi State Adopted textbooks for students in the College of Education.

The MSU Libraries has a great deal to offer Distance Learning graduate students as well, including Library Express, Interlibrary Loan, Virtual Consultations, virtual research assistance, Survival Skills workshops, podcasts, online Library account management, and more.

**CENTER FOR DISTANCE EDUCATION**

The mission of the Center for Distance Education (CDE) is to provide quality educational experiences through distance learning programs for working and place-bound adult learners. Consistent with its land-grant tradition, distance education enables the University to carry out its mission of providing access and opportunity to students from all sectors of the state’s diverse population, as well as from other states and countries. The Center for Distance Education is a member of the Sloan Consortium and the Advisory Council on Distance Learning & Academic Outreach (ACDLAO).

The Center for Distance Education is dedicated to providing support services for quality academic courses, certifications, and degree programs via distance learning at Mississippi State University. All graduate degrees and certificates are offered by academic departments within respective Colleges. 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 Blackboard Learn, intensive weekend seminars, and blended.

**Programs offered:**

**Master’s Degree**
- Master of Arts in Teaching - Community College Education
- Master of Arts in Teaching - Middle Level Education
- Master of Arts in Teaching -Secondary Education
- Master of Business Administration
- Master of Business Administration - Project Management
- Master of Engineering
- Master of Science in Aerospace Engineering
- Master of Science in Civil Engineering
- Master of Science in Computer Science
- Master of Science in Electrical and Computer Engineering
- Master of Science in Food Science, Nutrition and Health Promotion & Health Promotion – Health Promotion Concentration
- Master of Science in Forestry
- Master of Science in General Biology - Teachers in Biology
- Master of Science in Geosciences - Applied Meteorology Concentration
- Master of Science in Geosciences - Teachers in Geosciences Concentration
- Master of Science in Industrial Engineering
- Master of Science in Information Systems
- Master of Science in Mechanical Engineering
- Master of Science in Workforce Education Leadership

**Ph.D.**
- Doctor of Philosophy in Community College Leadership
- Doctor of Philosophy in Electrical and Computer Engineering
- Doctor of Philosophy in Engineering - Aerospace Engineering Concentration
- Doctor of Philosophy in Engineering - Civil Engineering Concentration
- Doctor of Philosophy in Industrial and Systems Engineering
- Doctor of Philosophy in Engineering - Mechanical Engineering Concentration

**Certificates/Certifications**
- Broadcast Meteorology
- Diversity
- Geospatial and Remote Sensing Technology
- Operational Meteorology
- Vision Specialists in Vocational Rehabilitation

**INFORMATION TECHNOLOGY 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 over two hundred 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,
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 (M-ASGC)—The Mississippi-Alabama Sea Grant Consortium is a research, educational, and service group including Mississippi State University, the University of Mississippi, the University of Southern Mississippi, the University of Alabama (Tuscaloosa), the University of Alabama (Birmingham), the University of South Alabama, Auburn University, Tuskegee Institute, and the Gulf Coast Research Laboratory. The Consortium was initiated by Mississippi State University, the University of Mississippi, and the University of Southern Mississippi in 1970 with both state and federal funding. It currently operates with approximately $1,100,000 per year and has research, education, and advisory service programs in marine law, fisheries, environment, and engineering. Graduate students are involved in the Consortium’s research programs in the same manner as in other funded research with the University. Faculty members working through the Consortium work in conjunction with faculty members at the other institutions; thus, opportunity for multidisciplinary, multi-university cooperation is provided. In September 1982, member institutions of 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 providing learning and research opportunities in forestry, forest products, wildlife, fisheries, aquaculture, and water resources. The college has over 4,000 alumni who make an impact daily on conserving the planet and providing for a sustainable environment. The college has earned a national and international reputation as a center for science and education programs in forestry, wildlife and fisheries, and forest products. A Master of Science degree in forestry offered through distance learning allows students from across the globe an opportunity to advance their knowledge.

The Forest and Wildlife Research Center provides the only research program in Mississippi focused on managing and utilizing the forest, wildlife, fisheries, and water resources, and forest products development while protecting and enhancing the environment. Natural resources in Mississippi provide opportunities for the state’s citizens and create billions of dollars annually to the economy of the state. There are many economic and environmental issues facing the world. Faculty and graduate students in the Forest and Wildlife Research Center discover solutions through research to address these issues.

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 resources, family and consumer education, 4-H youth
development, and community resource development. Please visit the Extension website at www.mafes.msstate.edu for more information.

The International Institute, founded in June 2011, serves as the hub of the University's international education, global engagement, and development activities. For a complete description of its mission and services, see International Institute below under Division of Research.

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:

Laboratory Animal Veterinarian (LAV)
Radvanyi Chair in International Studies
Office of Research Compliance (ORC)
Sponsored Programs Administration (SPA)
Office of Research Security (ORS)
Office of Environmental Health and Safety (EHS)

CENTERS AND INSTITUTES
Center for Safety and Health (CSH)
Center for Science, Math, and Technology (CSMT)
Energy Institute (EI)
Geosystems Research Institute (GRI)
High Performing Computing Collaboratory (HPC²)
Institute for Genomics, Biocomputing and Biotechnology
Institute for Imaging and Analytical Technologies (I²AT)
International Institute (joint oversight by Provost; Vice President for Agriculture, Forestry, and Veterinary Medicine; and Vice President for Research and Economic Development)
Mississippi State Chemical Laboratory (MSCL)
National Strategic Planning & Analysis Research Center (nSPARC)
Northern Gulf Institute (NGI)
Research and Curriculum Unit (RCU)
Social Science Research Center (SSRC)
Sustainable Energy Research Center (SERC)

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 Entrepreneurship and Technology Transfer (OETT)—The mission of the OETT is to foster an entrepreneurial environment and identify, assess, protect, market, and license intellectual properties developed by MSU faculty, staff, and students. OETT 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 OETT staff serves as a resource for MSU faculty, staff, and students regarding intellectual property and commercialization opportunities. OETT strives to create a culture of entrepreneurial and innovative activity at MSU by providing means to support business start-ups, providing business planning and mentoring, identifying potential licensees, evaluating disclosures, recommending appropriate strategies for protecting technologies, negotiating license agreements, and managing patent prosecution.

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, then president of 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 Research Compliance (ORC)**—The Office of Research Compliance has several functions related to ensuring compliance with federal, state and local regulations pertaining to research at a land-grant institution. ORC functions include: 1) the Animal Care and Use Program which supports the Institutional Animal Care and Use Committee (IACUC); 2) the Human Research Protections Program which supports the Institutional Review Board for the Protection of Human Subjects (IRB); 3) the Financial Conflict of Interest program which supports the Conflict of Interest Review Committee; 4) the Biological Safety Program which supports the Institutional Biosafety Committee (IBC).

**Environmental Health and Safety (EHS)**—The office of Environmental Health and Safety has several functions related to the safety of MSU personnel and the surrounding community as well as ensuring compliance with federal, state, and local regulations. Environmental Health & Safety staff 1) conduct certifications of all Biosafety Level 2 labs; 2) ensure the proper handling, storage, and disposal of hazardous waste; 3) oversee the procurement, use, storage, and disposal of radioactive materials; 4) maintain MSU’s radioactive materials license; 5) review campus buildings to ensure safety standard and fire code compliance; 6) inspect laboratories for safety issues; and 7) coordinate and conduct training.

**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 problem-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**

**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 conservation. 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.

High Performing Computing Collaboratory (HPC2, 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 stimulations 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 (HPC²) in order to reflect more accurately the research role and mission of the Center. The HPC² is a coalition of member centers and groups that share 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. HPC² is currently comprised of the following five independent centers and groups: Center for Advanced Vehicular Systems, Center for Computational Sciences, Geosystems Research Institute, Northern Gulf Institute, and the Institute for Genomics, Biocomputing and Biotechnology.

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 I²AT as 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.

International Institute—More than ever, global economic development, scientific exploration, and security are interconnected. The International Institute at Mississippi State University fully integrates our land-grant institution’s 130-plus years of leadership, teaching, research, and service into the global arena. Founded in June 2011, the Institute serves as the hub of the University’s international education, global engagement, and development activities.

The MSU International Institute enriches and expands the academic and cultural experiences of faculty, students, staff, and community through global outreach, research, and academic programs. The Institute’s academic offerings include both English as a Second Language (ESL) and Study Abroad programs. Currently, MSU hosts more than 800 international students and over 100 exchange visitor scholars from 75-plus countries. The Institute assists prospective international students with recruiting and arrival services and provides immigration advisory services for faculty and students. In addition, the International Institute develops, promotes, and aids faculty and student engagement in international scholarly and research activities through Fulbright and other scholarship programs. The Institute also supports multicultural events to help international students celebrate their home culture and tradition while at MSU. The events also help students to develop awareness and understanding of other cultures and traditions by meeting people from diverse backgrounds.

MSU is committed to international partnerships and impact on a global scale. The MSU International Institute welcomes university-to-university exchanges and collaborations with international counterparts. The University’s strengths in capacity-building make it well positioned to address many of the world’s more
challenging problems. MSU faculty and researchers collaborate with counterparts overseas to improve academic and research capabilities, to share knowledge, and to address issues that require a range of technical, scientific, and policy expertise. Interdisciplinary teams are the hallmark of Mississippi State’s approach to problem-solving, whether working with governmental, private sector, non-governmental, or peer institutions at home and abroad.

**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 (RCU)—The Research and Curriculum Unit 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 of 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.

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<td>College of Architecture, Art, and Design</td>
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<td>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.</td>
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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 sciences, extension, and engineering. The work done by the CSTC has gained both statewide and national renown and has been exhibited both nationally and internationally.

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

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

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 and Community Development—The John C. Stennis Institute of Government and Community Development 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.

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)—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.

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.

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.

**National Research and Training Center on Blindness and Low Vision (NRTC)**—Since its inception in 1981, the NRTC’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-NRTC 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 CAVIS 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 CAVIS projects generate timely solutions relevant to regional manufacturers, CAVIS research seeks to expand knowledge that is essential for sustained economic development. Through direct involvement in various activities at CAVIS, students gain valuable experienced that leverages on their classroom learning. CAVIS also serves as the academic department for the College’s graduate program in Computational Engineering.

The research groups within CAVIS 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 cybercrime 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 cybercrime 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 interdisciplinary research into software vulnerabilities, security mitigation strategies, audit mechanisms, forensic analysis, and attack vulnerabilities.

Center for DoD User Productivity Enhancement and Technology Transfer—The mission of the Center 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 User Productivity Enhancement and Technology Transfer (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 – National 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 Bagley 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 demonstrations of this advanced technology for design and analysis of submarines, surface ships, rotary and fixed-wing aircraft, launch vehicles, tactical missiles, automobiles, turbomachinery, and blood pumps for sponsors such as DoD, NASA, Nissan, and others. The SimCenter has a critical mass of computational research, development, and application specialists comprising a focused multidisciplinary team which continues to leverage basic and applied research and education in computational engineering to develop new technology for computational modeling, simulation, analysis, and design.

**Construction Materials Research Center (CMRC)**—The Construction Materials Research Center within the Department of Civil and Environmental Engineering at MSU 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 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
High Performance Computing Collaboratory (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 HPC², 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.

**Social, Therapeutic, and Robotic Systems Laboratory (StaRS)—**The Social, Therapeutic, and Robotic Systems Laboratory is focused on human-centered computing. The research concentrates on the areas of human-robot interaction, human-computer interaction, interface design, affective computing, robotics, and artificial intelligence. It combines psychology and cognitive science with robotic and computing technologies. It is a hands-on research experience that involves human studies and evaluating how humans will interact with and operate different types of robotic and computing technologies. The application areas are law enforcement support; emergency response and disaster recovery especially as it relates to Chemical Biological, Explosive, Radiological, and Nuclear (CBERN) responses; and military medical applications. There is research associated with the use of robots in therapy for people suffering from post-traumatic stress disorders (e.g., soldiers returning from battle, survivors of sexual assault). Another area of research focus is the use of robots to gather information with one interest being children who have experienced maltreatment. The StaRS Laboratory is housed in the Department of Computer Science and Engineering with additional facilities located at the Center for Advanced Vehicular Systems (CAVS). The lab has several different robotic platforms and other related equipment and sensors. This research group is interdisciplinary and collaborates with professors from electrical and computer engineering, psychology, CAVS human performance group, and kinesiology.

**Bradley Carter 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 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.

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.
Family Education Rights and Privacy Act (FERPA)

Notification to Students of Their Privacy Rights under the Family Education Rights and Privacy Act (General Education Provisions Act, Sce. 438, Pub. L. 90-247, Title IV, as Amended) by Mississippi State University.

The purpose of this notification is to inform eligible students at Mississippi State University about the University’s policy concerning the privacy rights of students under the stated Act. Specifically, this notification (1) informs students of their rights under the Act, (2) defines directory information and the conditions for its release, and (3) specifies the location on campus of the policy statement and how copies of it may be obtained.

I. Subject to limitations specified in the Act, eligible students are assured the following rights pertaining to their educational records.

A. The right to inspect and review their records, to request reasonable explanations and interpretations of them.

B. The right to seek correction of the records through a request to amend them or through a formal hearing.

C. The right to control the disclosure of personally identifiable information from their records.

D. The right to file complaints with the Family Education Rights and Privacy Act (FERPA) Compliance Officer at Mississippi State University. The FERPA Compliance Officer at Mississippi State University is the University Registrar, P.O. Box 5268; (662)325-2022, 325-2662.

E. The right to file complaints with the Family Educational Rights and Privacy Act Office (FERPA), Department of Health, Education, and Welfare, 330 Independence Ave. S.W., Washington, DC 20201, concerning alleged failures by Mississippi State University to comply with the requirements of Section 438 of the Act.

II. Directory information is treated as general information and will be released upon request unless a written request that is not to be released is received by the University Registrar (278 Garner Hall or P.O. Box 5268, Mississippi State, MS 39762) within thirty (30) days from the beginning of any period of registration. Directory Information instructions received by this date will be reflected in the printed student directory. Instructions received after this date will be so noted in the online directories but not the printed directories. Students may update the release instructions of directory information online via MyBanner/OnCampus at any time.

III. The information about eligible students treated as Directory Information is defined in Academic Operating (AOP) 12-13 Academic Records (November 8, 2000/Revised December 1, 2006/Revised July 27, 2011). This document also contains the University’s policy concerning the privacy rights of students and the procedures for implementing this policy and available on the University’s website at http://www.msstate.edu/dept/audit/mainindex.html.

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.
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 $60.00 (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 admitted applicant must contact the Office of the Graduate School to change the enrollment term. After the lapse of both a fall and spring semester without enrollment, the 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 after the department receives applications and supporting credentials. Applicants are then notified of the action taken on their application. Only a written notice of admission from the Graduate School to the applicant is valid proof of admission. Admission to MSU for graduate study is open to qualified students regardless of race, creed, color, natural origin, handicap, sex, or veteran status.

Application Fee
A non-refundable $60.00 application fee must accompany each application that is submitted. Effective January 1, 2013, the fee must be paid before the application can be submitted for processing. Application fees will not be refunded if a submitted application is canceled or an admitted student decides not to enroll. The original application fee will be applied for enrolled students who submit an approved Request to Change Degree Level or Concentration. However, an additional application fee will be required for requested changes in degree program or a change to unclassified 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>
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<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>
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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 must apply online and can access the application at http://www.grad.msstate.edu/. An applicant who is unable to apply online should contact the Office of the Graduate School at gradapps@grad.msstate.edu. Effective January 2013, no application will be processed until the application fee has been paid. The statement of purpose, recommendation letters, and résumé (if required) must be submitted electronically. As part of the online application, the applicant must submit the names and email addresses of three people who will supply a recommendation.

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. 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. The Graduate School will accept electronic transcripts directly from Escrip. Electronic transcripts sent by Escrip should be sent to Mississippi State University, Graduate School.

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

Applications—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>
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<tr>
<td>Fall Semester</td>
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<tr>
<td>First Summer Term</td>
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<td>Second Summer Term</td>
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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. Graduate applicants must
An international applicant to Unclassified graduate status (non-degree-seeking) who is not from a country where English is the first language or who does not hold a baccalaureate or higher degree from a college or university where English is the first language must submit an appropriate TOEFL or IELTS score.

A minimum TOEFL score of 477 PBT (Paper-Based Test) or 153 CBT (Computer-Based Test) or 53 iBT (Internet-Based Test) is required for admission to Mississippi State University. The required IELTS score is 4.5. Some degree programs require higher test scores. Exceptions to the University required score include the following:

- 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 550 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.

The applicant should check the requirements of the specific department.

Effective January 1992, the following requirements were established to satisfy the English language proficiency for international graduate students. A student admitted to the University with a national TOEFL or IELTS score less than the proficient-level equivalencies must enroll in the specified English as a Second Language (ESL) course requirement(s) beginning with the initial enrollment period.

I. An international applicant whose English-language test score falls within the following ranges is eligible for admission and award of a graduate assistantship.

- A qualified applicant 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 qualified applicant 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
II. An international applicant whose English-language test score falls within the following ranges is eligible for admission but is not eligible for award of a graduate assistantship until the English-language requirements of ESL 5110 and/or ESL 5120 are satisfied.

- 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 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 must then complete ESL 5120 to be followed by completion of ESL 5323.

III. An applicant whose TOEFL score is below 477 PBT or 153 CBT or 53 iBT or whose IELTS score is 4.5 is not eligible for admission to the Graduate School. This individual can enroll in the ESL Center on a non-credit basis after which he/she can retake the English-language test in preparation for another application to graduate study at MSU.

The Dean of the Graduate School will monitor the students’ progress and certify each graduate student as he or she fulfills the English proficiency requirements. A hold is placed on the student’s record and is released when the required ESL coursework is completed. Until release of the hold, the student must meet with his/her advisor to establish a semester schedule of courses. This schedule must immediately be submitted to the Office of the Graduate School by the student or major professor. The OGS will ensure that the student is registered for classes. Once the hold is released, the student can self-register for classes.

### ENGLISH-LANGUAGE TEST SCORES AND REQUIREMENTS

| Score                      | Requirement                                      
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<tbody>
<tr>
<td>*&lt;550 PBT or 213 CBT or 79 iBT (TOEFL) or 6.5 (IELTS)</td>
<td>Eligible for regular admission; no ESL course required. Assistantship can be awarded.</td>
</tr>
<tr>
<td>**547-523 PBT or 210-193 CBT or 78-69 iBT (TOEFL) or 6 (IELTS)</td>
<td>Eligible for admission; ESL 5323 required. Assistantship can be awarded.</td>
</tr>
<tr>
<td>**520-500 PBT or 190-173 CBT or 68-61 iBT (TOEFL) or 5.5 (IELTS)</td>
<td>Eligible for admission; ESL 5120 and ESL 5323 required. Assistantship cannot be awarded.</td>
</tr>
<tr>
<td>**497-477 PBT or 170-153 CBT or 59-53 iBT (TOEFL) or 5-4.5 (IELTS)</td>
<td>Eligible for admission; ESL 5110, ESL 5120, and ESL 5323 required. Assistantship cannot be awarded.</td>
</tr>
<tr>
<td>*** ESL 5110 Below 477 PBT or 153 CBT or 53 iBT (TOEFL) or 4.5 (IELTS)</td>
<td>Ineligible for admission.</td>
</tr>
</tbody>
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**English as a Second Language (ESL) Center**

The ESL Center, as a part of the International Institute, is responsible for the administration of the English language courses. The courses offered by the ESL Center are taught by faculty members of Mississippi State University.
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).

International Transfer Students
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 (less than 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.

International Student Applicants Lacking English Language Test Score Requirements
Conditional Admission Policy
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 Graduate School website at http://www.grad.msstate.edu/. An applicant who is unable to apply online should contact the Office of the Graduate School at gradapps@grad.msstate.edu.

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
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.

**CATEGORIES OF ADMISSION STATUS**

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
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 admission requirements stipulated by the University and the desired program may be granted admission to the program with provisional admission 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. 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).

5. Unclassified Admission
Unclassified admission is available to non-degree-seeking students desiring graduate-level study. The Unclassified Graduate application, an official transcript verifying receipt of a bachelor’s degree, and a $60.00 application fee are required. **Once admitted unclassified, the student must remain in that status for one semester.** Up to 9 hours of graduate work earned while unclassified 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.

The College of Business does not allow unclassified graduate students to take courses. Students must be accepted to a degree program prior to registering for courses in that college.

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 Mississippi State University faculty are not required to submit a transcript in order to enroll in a graduate course as an unclassified graduate student.

Application and registration requirements include:
1) The applicant submits electronically an Unclassified Graduate Application, an official transcript showing proof of an earned baccalaureate degree from an accredited institution, and a $60.00 non-refundable application fee to the Office of the Graduate School; site link is http://www.grad.msstate.edu/. When asked to choose a program, the unclassified applicant must select No Degree/Unclassified Grad.

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) The Office of the Graduate School will send a letter of admission to the student by both email and the postal service.

To register for classes, the student must receive permission from the academic department of interest. The graduate coordinator or course instructor (or approved designate) grants approval, and a department representative enters a major override for each approved course. Only the department offering the course may approve. To seek approval, the student uses the Unclassified Graduate Student Registration Approval form, found at http://www.grad.msstate.edu/forms/pdf_forms/unclassified_graduateWorksheet.pdf. An email from the faculty member (or approved designate) granting approval may be attached to the form in lieu of the signature.

3) The student submits the form to the Office of the Graduate School to obtain a Registration Access Code (RAC). If the form is submitted electronically, the student must use his/her MSU email account to do so.

4) The student uses the RAC to register online.
6. Military Deferment of Admission
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).

Note: A student who has not enrolled for at least one fall or spring semester will not have a Registration Access Code (RAC). After non-registration for fewer than three consecutive semesters, the student must not apply for readmission but the major professor should contact the Office of the Graduate School to request that a RAC be assigned for the student.

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 Citizen
Legal residents of the State of Mississippi age 60 or older may enroll tuition-free in 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. Enrollment in courses offered for the Doctor of Veterinary Medicine degree is not permitted. The application fee of $60.00 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 $60.00 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
Mississippi State University
http://www.msstate.edu/dept/audit/3102.html
Academic Operating Policy APO 31.02 Legal Resident Status

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 currently awarded athletic scholarships
2. Those currently awarded band scholarships
3. Those 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 non-resident tuition remission (exemptions) 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, remain in academic good standing, and comply with all the requirements of the degree program. The waiver is 100 percent of non-resident tuition remission and will remain at this level unless the student’s field of study changes or a student no longer has full-time status. If a student changes his/her major from the approved ACM certified major, then he/she must inform the Office of the Provost of the change of status. The student will be responsible for the non-resident tuition for the remaining semesters at MSU. To be eligible for the non-resident tuition remission during the first semester of enrollment, applications and resident verification must be submitted to and approved by the Office of the Provost and Executive 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 contact the Academic Common Market, Southern Regional Education Board, 592 10th Street NW, Atlanta, GA 30318-5790 or access the Website at www.sreb.org.

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.
THE GRADUATE SCHOOL

GENERAL

DEGREE COMPLETION 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/. Although the major professor and committee are integral to the process, the student is primarily responsible for the completion and the department’s timely submission of all required forms. The student and the department must retain copies of the forms.

All Degrees
Graduate Committee Request
Graduate Program of Study
Declaration of Examination/Defense
Report of Examination Results (accessible only to faculty members and must be submitted to the Graduate School by the department)

Doctoral Degree Only
Admission to Candidacy

ENROLLMENT REQUIREMENTS

Continuous Enrollment
A graduate student who has completed all coursework and lacks only sitting for the comprehensive examination (non-thesis master’s students) or completion of the thesis or dissertation must be continuously registered for a minimum of one graduate 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 doctoral student who has completed all coursework, passed preliminary/comprehensive examinations, and been admitted into candidacy;
- a non-thesis educational specialist student who has completed all coursework but has not taken or passed comprehensive examinations;
- a thesis-option educational specialist student who has completed all coursework, passed examinations, and is working on a thesis;
- a non-thesis master’s degree student who has completed coursework but has not taken or passed comprehensive examinations; or
- a thesis-option master’s degree student who has completed all coursework, passed comprehensive 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 graduate credit hour for the semester in which she or he
- takes a comprehensive examination;
- proposes a thesis/dissertation;
- defends a thesis/dissertation;
- submits initial and final thesis/dissertation document 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.

Fall and Spring—A full-time course load is enrollment in 9-13 credit hours. A student may register for up to 16 hours by submitting to the Registrar’s Office a scheduling overload form approved by the student’s college dean. The form is available at http://www.provost.msstate.edu/resources/students/forms/forms/Request_for_scheduling_overload_graduate_students.pdf

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.

Graduate Assistantship—A student receiving an assistantship appointment is required to maintain full-time enrollment throughout the full appointment period. A student holding a half-summer graduate assistantship must be registered during the term of the assistantship. 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

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

An unclassified graduate student must submit the Unclassified Graduate Student Registration Approval form to the Graduate School to receive a RAC. The required steps are outlined on the form and must be carefully followed. Access the form at http://www.grad.msstate.edu/forms/pdf_forms/unclassified_graduate_worksheet.pdf.

Add/Drop Course
To add a course after online registration has closed, the student must use the Add/Drop form. A registered student wishing to drop a course before classes begin can drop the course online. However, after classes begin the student must use the 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 is refunded.

Add/Drop Schedule
- **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.
- **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 must specify the effective date on the Add/Drop form.
- **Drop after 30th class day** - A student can drop classes after the 30th class day 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 must specify the effective date. The student receives a W on the transcript and is assessed a fee.

Summer term add/drop schedules are found online at http://www.registrar.msstate.edu/Calendars/academiccalendar.html. Access the add/drop policy at http://www.msstate.edu/dept/audit/1201.html.

Withdraw
(Drop entire current semester schedule)
To drop an entire current semester schedule before the withdrawal deadline, the student accesses the Withdrawal Request found on the MyBanner for Students Registration Menu. By completing this process, the student avoids the automatic assignment of grades of F and assessment of outstanding tuition and fees. Following the outlined procedure also avoids future difficulties in obtaining transcripts or reentering the University. In most circumstances the student is permitted to register for the subsequent semester without penalty.

A summer semester student uses the Withdrawal Request when dropping the entire schedule for Maymester or either of the 5-week terms or the 10-week term. Withdrawing from one summer term (e.g., Maymester) does not affect the student’s schedule for another summer term (e.g., 2nd 5-week).

The withdrawal of a student is not effective for any date prior to the actual date of withdrawal except in documented cases of serious illness or extreme hardship, and then only upon approval 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. Failure to take prompt and appropriate action may result in significant payment obligations and holds.

Retroactive Withdrawal Procedure
(Drop entire prior semester schedule)
In rare and unusual circumstances, a student may request a retroactive withdrawal for a previous semester by submitting a completed petition found at http://www.provost.msstate.edu/resources/students/forms/forms/Petition_for_retroactive_withdrawal.pdf. The student must also submit all required documentation. The student’s academic dean, the dean of the Graduate School, and the Provost must approve the request for retroactive withdrawal.
Course Retake Policy
See PROGRAM OF STUDY section below.

Audit a Course
Upon recommendation from the relevant course instructor and subject to approval by the appropriate dean and Registrar, a student may enroll to audit a course. The approval to audit must occur prior to the official enrollment count day (10th class day for spring and fall semesters; third class day for summer school sessions). A student may not change from credit to audit or audit to credit status after the official enrollment count day. An audited course counts as part of the regular load. Students auditing a class are not required to take tests and/or examinations or to prepare other written assignments. Otherwise, conformity to regular classroom rules including attendance requirements is the same as for students taking the course for credit. At the time the request for audit is approved, the professor will inform the student auditing the class of attendance expectations. Failure to meet any or all of these requirements may result in an auditor being administratively dropped from the class roll. No audited course may be counted as part of the required hours of any degree or program requirements.

A student who must be enrolled full-time cannot count an audited course as part of full-time enrollment; an audited course must be taken in addition to enrollment in 9 hours. This is especially important for graduate assistants.

Concurrent (Dual) Degree Matriculation
An applicant may apply and be admitted into more than one degree program concurrently. Concurrent degree matriculation requires prior approval of each department. If the student is approved to pursue two degrees concurrently at MSU, no more than 9 hours of coursework used in one degree program may be applied toward meeting the requirements for the second degree.

Graduate Committee
Membership
Each degree section of this publication lists committee membership requirements specific to that degree. The student and committee submit a completed 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 appeal procedure.

Membership Changes
When a student’s 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 member(s) 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 of that member, then the student must submit to the Dean of the Graduate School a written request containing suitable justification for removal of the committee member. 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 at the end of this publication and on the Graduate School website at http://www.grad.msstate.edu/faculty/.

Graduate Program of Study
Prerequisites
Students may be required to take prerequisite or leveling 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 he/she was admitted, 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. The student and committee must also identify research skill requirements and/or other requirements for degree completion. A student may be required to take an ESL, LSK, or undergraduate course; however, these courses cannot be included on a program of study, nor can an audited course be included. Courses taken in previous graduate work that fulfill current degree requirements but are not part of the current program of study must be listed on the attachment sheet accessed at 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 make required additions and deletions. The form is accessed at http://www.grad.msstate.edu/forms/#degree.
**Combined B.S./M.S. Degree Program or 5 Year Bachelor’s/Master’s Degree Program**

Combined B.S./M.S. or 5th year bachelor’s/master’s degree programs are offered by Biological Sciences, History, Computer Science and Engineering, and Plant and Soil Sciences.

**Biological Sciences:** 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 should take the courses for graduate credit (i.e., 6000 level or higher). To register for graduate courses, the student must submit to 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](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.

See the Department of Biological Sciences in the College of Arts & Sciences section of this publication for complete information.

**Computer Science and Engineering:** The 5-Year B.S./M.S. 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.

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, the student will submit a normal admission application package for the M.S. degree, including GRE scores.

See the Department of Computer Science and Engineering in the Bagley College of Engineering section of this publication for complete information.

**History:** 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.

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. 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.

To register for a graduate course, the undergraduate student completes an Undergraduate Request to Enroll in Graduate Courses(s) form, accessed at [http://www.grad.msstate.edu/forms/pdf_forms/undergraduate_request_to_enroll_in_graduate_course.pdf](http://www.grad.msstate.edu/forms/pdf_forms/undergraduate_request_to_enroll_in_graduate_course.pdf) and submits the completed form to the Office of the Graduate School.
See the Department of History in the College of Arts & Sciences section of this publication for complete information.

### Plant and Soil Sciences

Highly qualified undergraduates at Mississippi State University are encouraged to consider applying to the combined B.S./M.S. degree program. This program permits concurrent enrollment in the Agronomy or Horticulture B.S. and the Agronomy, Horticulture, or Weed Science M.S. degree programs during the student’s final year of undergraduate studies with enrollment in up to nine hours of graduate courses for which undergraduate credit is also awarded. Students need to consult with a potential graduate advisor 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 junior year (i.e., after completion of 90 or more hours of graded undergraduate courses). This option is only available for students pursuing a thesis-based Master of Science degree in Agriculture with a concentration in Agronomy, Horticulture, or Weed Science.

Once the student is accepted into the combined program, the student and the advisor may select up to 9 hours that will satisfy both undergraduate and graduate requirements. These courses may be split-level (i.e., 4000-6000 level) or 8000 level classes, and the student should take the courses for graduate credit (i.e., 6000-level or higher). To do so, he/she must submit a completed form to the Office of the Graduate School requesting such permission: [http://www.grad.msstate.edu/forms/pdf_forms/undergraduate_request_to_enroll_in_graduate_course.pdf](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 16 hours within a semester. After successfully completing the graduate-level classes, the student will also receive credit for the course at the undergraduate level with the same grade awarded. In the case of a split-level class, the transcript will show credit for both the 4000- and 6000-level on the transcript. In the case of an 8000-level class, a special topics undergraduate course of the same title will be entered on the transcript to allow dual credit.

See the Department of Plant and Soil Sciences in the College of Agriculture and Life Sciences section of this publication for complete information.

### Transfer and Sharing of Credit Hours

A total of 9 credit hours can be shared between two MSU degrees in which a student is enrolled concurrently (see Dual Degrees in this publication). For those cases other than dual degrees, a total of 9 credit hours can be shared or transferred to a student’s program of study. The three potential sources of credit hours are one or a combination of the following: those earned as a student in a graduate program at another university, whether or not used to satisfy the requirements of a previously earned degree (transferred); those earned in another graduate program at MSU, whether or not used to satisfy the requirements of a previously earned degree (shared); and those earned as an unclassified student at MSU (transferred to a degree program). Credit hours can be shared between or transferred to degrees of the same or different level (Graduate Council, November 2011). See Transfer Credit below for more information on the Transfer policy.

### 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, or Doctor of Philosophy). 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 can transfer up to 9 hours of courses used to earn a previous degree (per Graduate Council, November 2011).

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 containing 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. See the Transfer Credit section under each degree.

### 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 be included in 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 current block of approved coursework derived from a master's or doctoral degree program or 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.

Up to one-third of the required hours for 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 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.

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) additional requirements specified by the major and minor areas.

Course Retake Policy
A student may retake a course if his/her request (http://www.grad.msstate.edu/forms/pdf_forms/request_to_retake_a_course.pdf) is approved. Only one course per degree can be repeated, and this policy applies to any graduate course taken since the beginning of enrollment. The repeated course must be taken at MSU. A record of both courses taken 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.

Some courses are approved for repeated enrollment and credit (e.g., internships, special topics, thesis, dissertation, etc.), and additional program credit hours can be 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) offered via distance learning and requiring 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 as those of 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 all stages: proposal, preparation and presentation, 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 at MSU 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, must also be provided (per Graduate Council, April 2006; see General Requirements for Admission).

**Foreign Language Requirement**
The Department of Classical & Modern Languages and Literatures offers courses for graduate students seeking to fulfill a foreign language requirement for a degree program. Contact that department for more information.

**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**
A student’s progress is determined by his/her department. 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 6 credit hours of C grades; failure of the
Incomplete Grades/Change of Grades
An instructor may submit a grade of I (Incomplete) when a student does not complete the course requirements or 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 circumstances as approved by the Provost (per Graduate Council, October 2004). I grades cannot be assigned for thesis/dissertation credits.

Grades and Degree Completion
To graduate, the student must complete all University and degree program requirements as listed in the Bulletin of the Graduate School under which he/she began the program. A graduate student cannot graduate with 1) a GPA lower than 3.00 for all courses attempted for graduate credit after admission to the degree program or 2) a grade of less than a C on the program of study or 3) more than 6 credit hours of C or lower grades earned for all courses since admission into the program, including a course that is retaken and those courses outside the program of study, or 4) a grade of I grade on his/her transcript (per Graduate Council March 2011). No graduate courses with pass/fail credit are accepted as part of a graduate program. Grades of Pass/Fail are not awarded at MSU and cannot be transferred.

Commencement
A candidate for a degree must apply for graduation online via MyState and pay the required fee by the final date set by the Registrar for the semester he/she intends to graduate. Deadline and fee information is posted on the Graduate Academic Calendar in this publication and online on the Registrar’s and the Office of the Graduate School websites. The degree applicant must arrange cap and gown rental through the MSU Barnes & Noble Bookstore. A candidate for a degree should be present at commencement for the official conferring of the degree.

ACADEMIC PROBATION, DISMISSAL, AND APPEAL

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).

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.

Grade Appeal
A graduate student who wishes to appeal a grade should refer to the MSU Grade Appeals Policy, Academic Operating Procedure (AOP) 13.14 http://www.msstate.edu/dept/audit/1314.html and appeal to the Academic Review Board.

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 Dismissal that follows). The Office of the Graduate School will place an academic dismissal hold on the student’s record to prevent further enrollment. A student who has been dismissed from a graduate program and has not been reinstated via the appeal process cannot reapply and be admitted into that program, except by meeting the conditions necessary to request Academic Amnesty.
Academic Dismissal Appeal Procedure

Following the receipt of a letter of dismissal from the Office of the Graduate School (OGS), a graduate student may appeal the decision of dismissal and must begin the process within 15 work days. The entire appeal process consists of up to three stages. If the entire appeal process is used, all levels of appeal should be normally completed within 60 work days of the submission of the first appeal of dismissal. At each level, decisions will be promptly rendered by the appropriate administrator. If the appeal of a student is upheld at any level, then the student will be reinstated into the graduate program. Application for readmission is not required.

The appeal is first submitted to the department head in the form of a letter with relevant support documentation. The department head must inform the OGS when an appeal is received. In rendering a decision, the department head may convene an existing or ad hoc departmental committee to review the appeal and offer a recommendation to the department head. The department head then will render a decision in writing to the student and copy the notification to the OGS. If the dismissal is upheld at the departmental level, the student may appeal the departmental decision by submitting a written request with all relevant supporting documentation to the academic dean.

The academic dean must inform the OGS when an appeal is received and may choose to either 1) render a decision directly and notify the student of his/her decision in writing and copy the correspondence to the Graduate School, or 2) submit a request to the OGS to convene a subcommittee of the Graduate Council to review the student’s appeal.

If the latter option is selected, the Dean of the Graduate School will convene a subcommittee consisting of three voting members of the Graduate Council who do not have a conflict of interest with the graduate student requesting the appeal or the student’s department. A subcommittee chair will be named by the Dean of the Graduate School. Relevant supporting documents submitted by the student, department, and/or the Graduate School will be assembled by OGS staff and delivered electronically to the subcommittee for review. The subcommittee may choose to deliberate via email or in a face-to-face meeting. The recommendation of the subcommittee will be conveyed to the academic dean in writing and copied to the Graduate School. All correspondence will remain confidential. The academic dean may or may not choose to adhere to the recommendation of the appeals subcommittee. The academic dean will promptly inform the graduate student of his/her decision in writing. The Graduate School will be notified of the academic dean’s decision.

If the student is not satisfied with the decision of the academic dean, he/she may choose to submit a final appeal of the dismissal to the Provost. The office of the Provost must inform the Office of the Graduate School when an appeal is received. The Provost may seek a recommendation from an ad hoc committee appointed to review the appeal of dismissal. The Provost will promptly inform the graduate student of his/her decision in writing and notify the Graduate School of the decision (Graduate Council, October 2012).

Graduate Student Grievance Policy and Procedure

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.

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 of 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, the graduate 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 Pursuing Grievance Procedure—Students are advised 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 difficult 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.

THE GRADUATE SCHOOL

MASTER’S DEGREE COMPLETION REQUIREMENTS

Mississippi State University offers Master of Arts (M.A.) and Master of Science (M.S.) programs in academic departments in eight colleges. A number of specialized master’s degrees are also available. Refer to the list of Graduate Degrees and Majors in this publication. Consult the Admission section and the specific master’s program description for complete and detailed information regarding both admissions and degree completion requirements.

MASTER’S 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 approved by the major professor and dean of the college and submitted to the Office of the Graduate School (per Graduate Council, May 2005).

MASTER’S 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/program. At least one-half of the remaining committee members must be from the student’s major/disciplinary 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 change, the student submits a change of membership form (http://www.grad.msstate.edu/forms/#degree) to
the Graduate School reporting the changes. The form requires the signatures of the new and departing committee member(s), the student, and the graduate coordinator. 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, the student must submit to the Dean of the Graduate School a written request containing suitable justification for removal of the committee member. 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.

**MASTER’S PROGRAM OF STUDY**

**Course Requirements**

During the first semester of enrollment, 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 was admitted. The student and the committee must also jointly identify research skill requirements and/or other requirements for degree completion. The form is submitted to the Graduate School 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 include at least 24 hours of graduate coursework and 6 hours of research/thesis. One-half of the coursework credit hours must be at the 8000 level or higher.
- A student may be required to take an ESL, LSK, or undergraduate course. These courses cannot be included on a program of study, nor can an audited course be included.
- In the non-thesis option, the program of study consists of a minimum of 30 hours of coursework, at least 15 hours of which are at the 8000 level or higher (per Graduate Council, April 2004).
- A maximum of 6 Directed Individual Study (DIS) credit hours may be included on a program of study. Numbered at the 7000 level, they may be used to meet the 8000-level course requirement.
- Courses taken in previous graduate work that fulfill current degree requirements but are not part of the program of study should be listed on the attachment sheet accessed at [http://www.grad.msstate.edu/forms/pdf_forms/grad_prog_of_studyAttach_doc.pdf](http://www.grad.msstate.edu/forms/pdf_forms/grad_prog_of_studyAttach_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 approved by his/her committee and graduate coordinator to report the additions and/or 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. A minor is a current block of approved coursework derived from a master’s or doctoral degree program or concentration other than the major department program and must be approved by the student’s committee. If a minor is taken, at least 9 hours of current graduate coursework in the approved area 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). 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 and Sharing of Credit Hours**

A total of 9 credit hours can be shared between two MSU degrees in which a student is enrolled concurrently (see Dual Degrees in this publication). For those cases other than dual degrees, a total of 9 credit hours can be shared or transferred to a student’s program of study. The three potential sources of credit hours are one or a combination of the following: those earned as a student in a graduate program at another university, whether or not used to satisfy the requirements of a previously earned degree (transferred); those earned in another graduate program at MSU, whether or not used to satisfy the requirements of a previously earned degree (shared); and those earned as an unclassified student at MSU (transferred to a degree program). Credit hours can be shared between or transferred to degrees of the same or different level (Graduate Council, November 2011). See Transfer Credit below for more information on the Transfer policy.

**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).

MASTER’S 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 are required to take an oral examination, a written examination, or both. (See the THESIS section for information concerning the thesis defense). A student must be enrolled at MSU during the semester the exam is administered. A student taking a comprehensive examination during the summer semester can be enrolled in any summer term to fulfill this policy. The examination date must take place by the deadline found in the Graduate Calendar in this publication.

- A student in a thesis-option program may not be required to take a comprehensive examination in addition to the thesis defense. These students must check the specific requirements of his/her program

- A student must have a 3.00 GPA on all coursework after admission to the program (i.e., program and non-program courses) and must be within the last 6 hours or in the terminal semester (per Graduate Council, May 2006) of coursework excluding internship/practicum courses (per Graduate Council, September 2004).

- The Declaration of Examination/Defense form must be submitted to the Graduate School at least two weeks prior to the scheduled date of examination. Access the form at http://www.grad.msstate.edu/forms/pdf_forms/comprehensive_exam_announcement.pdf.

- The 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.

- 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 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.

- Following the examination, the major professor must promptly submit the completed examination results form to the Office of the Graduate School by the deadline. Submission of the report by the student is prohibited.

MASTER’S THESIS DEFENSE
A student in a thesis-option (Option One) Master of Arts or Master of Science program will submit a thesis to complete degree requirements. Thesis research is subject to review and approval by the University’s Institutional Review Board (IRB). The student must be enrolled at MSU in the semester he/she defends the thesis. A student defending during the summer semester can be enrolled in any summer term to fulfill this policy.

- A public presentation of the thesis research and defense before the student’s graduate committee is required. The presentation is open to any member of the graduate faculty and the Dean and Associate Dean of the Graduate School. The student or a committee member may request that the Office of the Graduate School appoint an outside observer to attend.

- The defense should be scheduled no sooner than seven days after the final manuscript has been distributed to all committee members and must take place by the deadline found in the Graduate Calendar in this publication.

- The Declaration of Examination/Defense form must be submitted to the Graduate School at least two weeks prior to the scheduled examination date. Access the form at
The student’s graduate committee will evaluate content and style of the completed thesis. 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 and submit both the original and a copy to the Office of the Graduate School by the deadline. Submission of the report by the student is prohibited.

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. A grade of S (satisfactory) or U (unsatisfactory) is awarded for thesis credit. A student cannot graduate with a U grade in the final semester.


MASTER'S THESIS SUBMISSION

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

The student submits the thesis electronically. 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-MASTER’S DISTANCE STUDENT CERTIFICATION OF OFF-CAMPUS/NON-MSU RESEARCH FACILITY

Students enrolled in a master’s program offered via distance learning which 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 all stages: proposal, preparation and presentation, 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) and may be required of candidates in other departments. The Department of Classical & Modern Languages and Literatures offers courses for graduate students seeking 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.

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**THE GRADUATE SCHOOL**

**EDUCATIONAL SPECIALIST DEGREE COMPLETION REQUIREMENTS**

The Educational Specialist degree (Ed.S.) is offered by the College of Education and 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 an educational specialist program 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.

**Ed.S. 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).

**Ed.S. Program of Study**
A minimum of 30 credit hours are required on the program of study. A maximum of 6 credit hours of graduate credit may be earned in DIS courses. A student may be required to take an ESL, LSK, or undergraduate course; however, these courses cannot be included on a program of study, nor can an audited course be included. Courses taken in previous graduate work that fulfill current degree requirements but are not part of the program of study are listed on the attachment sheet accessed at [http://www.grad.msstate.edu/forms/pdf_forms/grad_prog_of_study_attach_doc.pdf](http://www.grad.msstate.edu/forms/pdf_forms/grad_prog_of_study_attach_doc.pdf). The form is submitted to the Graduate School during the semester in which the student applies for graduation.

**Program of Study Changes**
If a program of study 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](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. A minor is a current block of approved coursework derived from a master's or doctoral degree program or concentration other than the major department program and must be approved by the student’s committee. If a minor is taken, at least 9 hours of current graduate coursework in the approved area 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). 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 and Sharing of Credit Hours**
A total of 9 credit hours can be shared between two MSU degrees in which a student is enrolled concurrently (see Dual Degrees in this publication). For those cases other than dual degrees, a total of 9 credit hours can be shared or transferred to a student’s program of study. The three potential sources of credit hours are one or a combination of the following: those earned as a student in a graduate program at another university, whether or not used to satisfy the requirements of a previously earned degree (transferred); those earned in another graduate program at MSU, whether or not used to satisfy the requirements of a previously earned degree (transferred).
degree (shared); and those earned as an unclassified student at MSU (transferred to a degree program). Credit hours can be shared between or transferred to degrees of the same or different level (Graduate Council, November 2011). See Transfer Credit below for more information on the Transfer policy.

**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 MSU provided they meet the criteria established in the General Requirements of the Graduate School. At the educational specialist level, transfer credit may 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. For the educational specialist thesis option, all thesis credit hours must be taken at MSU. Up to one-third of the required hours for a minor (9 hours at the educational specialist level) may be transferred to MSU. Only courses in which grades of B or higher were earned may be accepted for transfer. Transfer credit must fall within the eight-year time limit and must be academically relevant at the time the degree is awarded (per Graduate Council, September 2005 and March 2010).

**Directed Individual Study or Thesis**
A maximum of 6 Directed Individual Study (DIS) credit hours may be included on a program of study. Numbered at the 7000 level, they may be used to meet the 8000-level course requirement.

**Ed.S. Graduate Committee**

**Committee Composition**
The student’s graduate study 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 be from the student’s major department/program. At least one-half of the remaining committee members must be from the student’s major/disciplinary 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 Graduate School the semester in which the student applies for graduation.

**Membership Changes**
When the membership of a student’s graduate committee changes, the student submits the change(s) to the Graduate School on the committee change form accessed at http://www.grad.msstate.edu/forms/#degree. The form requires signatures of the new and departing committee members, the student, and the graduate coordinator. 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 containing suitable justification for removal of the committee member. 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.

**Ed.S. Comprehensive Examination**
- An Ed.S. student in the non-thesis option must pass a comprehensive examination during the terminal semester or within 6 hours of completion of the program of study, excluding practica and internships (per Graduate Council, May 2006).

- The student must be enrolled at MSU during the semester in which the exam is administered. A student taking a comprehensive examination during the summer semester can be enrolled in any summer term to fulfill this policy.

- The student must have a 3.00 GPA on all courses taken after admission to the program (i.e., program and non-program courses).

- The Declaration of Examination/Defense form must be submitted to the Graduate School at least two weeks prior to the scheduled date of examination. Access the form at http://www.grad.msstate.edu/forms/pdf_forms/comprehensive_exam_announcement.pdf.

- 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 complete the examination
results report and submit both the original and a copy to the Office of the Graduate School by the deadline. Submission of the report by the student is prohibited.

**E.D.S. Thesis Defense**

- A student in the thesis-option program will submit a thesis to complete degree requirements. Thesis research is subject to review and approval by the University’s Institutional Review Board (IRB). The student must be enrolled at MSU during the semester when the thesis is defended. A student defending during the summer semester can be enrolled in any summer term to fulfill this policy.

- A public presentation of the thesis research and defense before the student’s graduate committee is required. The presentation is open to any member of the graduate faculty and the Dean and Associate Dean of the Graduate School. The student or a committee member may request that the Graduate School appoint an outside observer to attend.

- The defense should be scheduled no sooner than seven days after the final manuscript has been distributed to all committee members. The defense must take place by the deadline found in the Graduate Calendar in this publication.

- The Declaration of Examination/Defense form must be submitted to the Graduate School at least two weeks prior to the scheduled date of examination. Access the form at http://www.grad.msstate.edu/forms/pdf_forms/comprehensive_exam_announcement.pdf.

- The student’s graduate committee will judge content and style of the completed thesis. The student will orally defend the thesis before the committee. 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 and submit both original and a copy to the Office of the Graduate School by the deadline.

Submission of the report by the student is prohibited.

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


**E.D.S. Thesis Submission**

- The student must meet the Library initial and final submission deadlines 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 in at least one credit at MSU during the semester(s) of both submissions to the Library.

- The student submits the thesis electronically. 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 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-ED.S.
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:

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

THE GRADUATE SCHOOL

DOCTOR OF PHILOSOPHY DEGREE COMPLETION REQUIREMENTS

To earn the Doctor of Philosophy (Ph.D.) 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.

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.

PH.D. 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).

PH.D. 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/program.

A student without a minor must have a committee composed at least four members, composed of 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 others.

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/disciplinary field. No more than two individuals holding Committee Participant appointments can serve on a dissertation or doctoral committee. Generally, the major professor is the dissertation director, but, if necessary, any member of the committee can be designated 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 does not meet 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.
PH.D. PROGRAM OF STUDY

Course Requirements
To meet all the course requirements (non-research) for a Ph.D., three academic years beyond the bachelor’s degree as a full-time student are generally needed. The total number of course credit hours will vary, based on the specific doctoral program, the student’s needs, and the student’s academic history. Program of study courses must be approved by the student’s committee. A student may be required to take an ESL, LSK, or undergraduate course, but these courses cannot be included on a program, nor can an audited course be included. Courses taken in previous graduate work that fulfill current degree requirements but are not part of the program must be listed on the attachment sheet accessed at http://www.grad.msstate.edu/forms/pdf_forms/grad_prog_of_study_attach_doc.pdf. The program of study form must be submitted to the Graduate School with the declaration of examination form when the preliminary/comprehensive exam is scheduled.

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 may choose a minor area of study. A minor is a current block of approved coursework derived from a master’s or doctoral degree program or concentration other than the major department program and must be approved by the student’s committee. A minor in a doctoral program requires:
- at least 12 hours of current graduate coursework in the approved area
- 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 and Sharing of Credit Hours
A total of 9 credit hours can be shared between two MSU degrees in which a student is enrolled concurrently (see Dual Degrees in this publication). For those cases other than dual degrees, a total of 9 credit hours can be shared or transferred to a student’s program of study. The three potential sources of credit hours are one or a combination of the following: those earned as a student in a graduate program at another university, whether or not used to satisfy the requirements of a previously earned degree (transferred); those earned in another graduate program at MSU, whether or not used to satisfy the requirements of a previously earned degree (shared); and those earned as an unclassified student at MSU (transferred to a degree program). Credit hours can be shared between or transferred to degrees of the same or different level (Graduate Council, November 2011). See Transfer Credit below for more information on the Transfer policy.

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 cannot exceed 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).

PH.D. 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 the exam is administered. A student taking the examination during the summer semester can be enrolled in any summer term to fulfill this policy.

The student 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 takes the preliminary/comprehensive examination after completing the coursework or when within 6 hours of coursework completion 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). When the examination is scheduled, the student’s program of study and committee request form are submitted to the Graduate School with the Declaration of Examination/Defense form at least two weeks prior to the scheduled date of examination. The declaration form is found at http://www.grad.msstate.edu/forms/pdf_forms/comprehensive_exam_announcement.pdf.

A student must take the preliminary/comprehensive examination by the appropriate deadline.
- June 1 for December graduation
- November 1 for May graduation
- February 1 for August graduation.

A student must be enrolled at MSU when taking the preliminary/comprehensive examination(s). A student taking the examination during the summer semester can be enrolled in any summer term to fulfill this policy.

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.

PH.D. ADMISSION TO CANDIDACY
A doctoral student is admitted to candidacy when she/he has 1) satisfactorily completed all required coursework and the final program of study is approved; 2) completed required research skills or other requirement(s) prior to taking the preliminary/comprehensive examination; 3) passed the preliminary/comprehensive examination; and received formal approval of a dissertation topic by the graduate committee.

When the student has met these requirements, the committee must submit the original examination results report and one copy with the Admission to Candidacy form to the Graduate School. Submission of the examination report by the student is prohibited.

PH.D. DISSERTATION PREPARATION
All candidates for the Ph.D. must submit a dissertation. The student’s graduate committee must approve the dissertation topic, the outline, and the final submission. Dissertation research is subject to review and approval by the University’s Institutional Review Board (IRB). The student must be enrolled at MSU during the semester of the dissertation defense. A student defending during the summer semester can enroll in any summer term to fulfill this policy.

The student must register for at least the minimum number of required dissertation/research hours. The University requirement is 20 credit hours although some programs have been approved to require more. Credit for the required number of hours of dissertation/research is awarded the student upon the successful submission of the final dissertation, regardless of the actual number of hours successfully completed. The dissertation must show a) mastery of the techniques of research and b) a distinct contribution to the field under investigation and study.


PH.D. DISSERTATION DEFENSE
A public presentation of the dissertation research and defense before the student’s graduate committee is required. The defense is open to any member of the graduate faculty and the Dean and Associate Dean of the Graduate School. The following requirements must be met.
• The final defense must occur by the deadline posted on the Graduate Academic Calendar.

• To allow time for careful and thoughtful evaluation and discussion, the examination for the oral dissertation defense should be scheduled no sooner than seven days after the final manuscript has been distributed to all committee members.

• The Declaration of Examination/Defense form must be submitted to the Graduate School at least two weeks prior to the scheduled date of examination. The declaration form is found at http://www.grad.msstate.edu/forms/pdf_forms/comprehensive_exam_announcement.pdf.

• The student or committee may request that the Office of the Graduate School appoint an outside observer to attend the dissertation defense.

• The student’s graduate committee will evaluate content and style of the completed dissertation. 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 grade of S for satisfactory or U for unsatisfactory is given for dissertation credit. A student cannot graduate with a U grade in the final semester.

• A student who fails to defend his/her dissertation successfully can apply to schedule another defense at least two months after 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 the examination results report and submit both the original and a copy to the Office of the Graduate School by the deadline. Submission of the report by the student is prohibited.

PH.D. 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 for a $35 fee.

OTHER-PH.D.
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 all stages: proposal, preparation and presentation, 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 all 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.

THE GRADUATE SCHOOL
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 their teaching discipline (seminar and research hours excluded) may be given primary responsibility for teaching an undergraduate course, including student assessment and assignment of final grades. GTAs cannot 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) that corresponds to the duties/responsibilities of the teaching assistantship appointment. Please refer to Graduate Teaching Assistantship Certification in this publication for detailed certification requirements.
Council of Graduate Schools
— offers and their acceptance must be defined carefully
honor. In that context, the conditions affecting such
at complete list of participating institutions are available
that both student and graduate school expect to
Fellows, Trainees and Assistants; the resolution and a
enrolled graduate student completes an agreement
the CGS Resolution Regarding Graduate Scholars,
for the next academic year by a prospective or
Graduate Schools (CGS) and the Conference of Southern
offer of financial support (such as a graduate
University is a member of the Council of Graduate
The Resolution reads as follows: “Acceptance of an
responsibilities.
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
found 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 offer of an
assistantship award, 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/.

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 the tuition remission of those
Graduate Service Assistants whose course of study is
specifically related to assistantship duties is not
taxable. For a Graduate Service Assistant whose
course of study is not specifically related to
assistantship duties, tuition remission up to
$5,250.00 per calendar year is not subject to tax;
however, tuition remission in excess of $5,250.00
per calendar year is taxable.

Distance Education Courses
A graduate assistant tuition award does not cover the
cost of Distance Education or ESL courses when a
student is enrolled in more than 9 credit hours. Therefore, the graduate assistant is responsible for
payment of any additional per credit hour rate
incurred as a result of Distance Education or ESL
enrollment. The required full-time status must be
maintained throughout the entire semester.
Therefore, dropping a course is not permitted if the
resulting course load is fewer than the required 9
graduate credit hours. No course in the 9-hour load
can be audited or converted to audit status.

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 back 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 for the first pay period are calculated on a prorated 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 insurance subsidy will be deposited into each Graduate Assistant’s account in October and in February. 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 throughout the entire semester. Therefore, no course may be dropped if the resulting course load is 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.

Full- and Half-Summer Awards—Full-summer awards require an enrollment in a minimum of 6 graduate credit hours in any combination of Maymester, 1st 5-week, 2nd 5-week, or 10-week terms. A maximum of 3 graduate credit hours is allowed for Maymester; a maximum of 13 credit hours is allowed for 1st 5-week, 2nd 5-week, or 10-week terms. Any combination of 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 a minimum of 3 graduate credit hours and a maximum of 7 credit hours. Additionally, a student holding a half-summer graduate assistantship must be registered for courses scheduled during the term of the assistantship.

Undergraduate Courses—The full-time course load may not be composed of undergraduate courses unless the course is a program prerequisite. In such case, only one undergraduate course will be permitted as part of the full-time 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 undergraduate courses and program prerequisites, and a graduate student is permitted to enroll in one of these courses while holding an assistantship. ESL 5323 and ESL 5313 cannot be taken concurrently.

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/resources/students/forms/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 permits application of additional tuition exemption consistent with existing policy.

Academic Achievement
To retain an assistantship, a student must demonstrate satisfactory progress in the academic program. Failure to do so may result in 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 6 credit hours 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. If a student is dismissed, his/her 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/.
Classroom Communication and Culture (CCC) Workshop – International Students Only
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. Those international students holding a first-time teaching assistantship appointment for the spring semester must obtain temporary Classroom English Certification. 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.

International students who have earned a bachelor’s and/or master’s degree from an accredited US institution are not required to participate in the Classroom Communication and Culture (CCC) workshop. Nevertheless, attendance is highly recommended, particularly when a need to enhance speaking, listening, and pronunciation skills and knowledge of the American student culture is evident, as determined by the student’s department.

Graduate Teaching Assistant (GTA) Orientation
Held semi-annually before the fall and spring semesters 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 to present to students as part of an assigned course. The mini-lesson is delivered to a group of graduate faculty members who judge the level of skills using a rubric. Classroom certification is required of all teaching assistants whose responsibilities involve classroom or laboratory teaching of students. A student cannot participate in the Microteaching Simulation/Classroom Certification Evaluation component until all other Teaching Assistant Certification Programs requirements (GTA Orientation and CCC Workshop, if applicable) are completed.

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 teaching 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 component of the GTAC. 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 classroom or laboratory teaching. A GTA who has already obtained GTA1 level certification is not required to attend the GTA Orientation again.

Graduate Teaching Assistant 2 (GTA2)—This level requires completion of the Microteaching Simulation/Classroom Certification Evaluation of the GTAC. 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 classroom or laboratory teaching of students, but the graduate teaching assistant is not the instructor of record.

Graduate Teaching Assistant 3 (GTA3)—The graduate student will teach for credit as the instructor of record and/or as the person primarily responsible for assigning grades. Mississippi State University Academic Operating Policy and Procedure (AOP) 13.09 Credentials for Teaching, states “Graduate teaching assistants may serve as instructors of record only for undergraduate courses. These graduate students must possess a master’s in the teaching discipline and obtain classroom...
certification from the Graduate School. Graduate teaching assistants must receive direct supervision by a faculty member experienced in the same teaching discipline, regular in-service training, and planned periodic evaluations. Graduate teaching assistants cannot serve as instructors of record for graduate level courses, regardless of qualifications.” Requires Microteaching Simulation/Classroom Certification Evaluation. Additional paperwork may be required 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 applicable Graduate Teaching Assistant Certification Program component requirements WILL NOT be issued.

**SERVICES AND FACILITIES**

**ASSESSMENT AND TESTING SERVICES**
The Office of Assessment and Testing Services (Computer Based Testing), located in the basement of Rice Hall at 180 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, and TOEFL. Registration information can be obtained from test program websites listed on our website at [www.ats.msstate.edu/testing](http://www.ats.msstate.edu/testing). Visit or call 662-325-6610 for additional information.

**BOOKS AND SUPPLIES**
MSU leases its bookstore to Barnes & Noble 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 is used for, among other items, scholarships, faculty increases, and departmental support. The bookstore’s retail areas also include clothing, gifts, electronics, and trade books and offers in excess of 20,000 general reading and reference titles. The store features a Starbucks Café and is located at Cullis Wade Depot. Call 662-325-1576 for information.

**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](http://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—Templeton Athletic Center Gaddis Hunt Commons at Colvard Student Union—Chick-Fil-A, Zoca Southwestern, MS Steak, Toss It Up, Panda Express P.O.D. Market, Colvard Student Union Starbucks, Colvard Student Union Einstein Bros Bagels, Mitchell Memorial Library C3 Express Convenience Store, Hathorn Hall Burger King, Roberts Building State Fountain and Bakery, below The Marketplace at Perry Pegasus Dining, Wise Center Village Pizza, Griffis Hall MSU Catering, contact at 662-325-3663 MSU Dining Services also offers students part-time and full-time job opportunities. Applications are available in the Dining Services office located next to the State Fountain Bakery. For information about meal plans or to ask other questions, visit the Dining Services website at [www.msstatedining.com](http://www.msstatedining.com) or telephone 662-325-0923.

**HEALTH EDUCATION & WELLNESS**
The Health Education and Wellness Department provides resources and educational programs to Mississippi State students. Topics covered by the department include alcohol and drug education, tobacco cessation, stress management, mental health, cancer awareness, men and women’s general health issues, sexual health and responsibility, nutrition, fitness and sexual assault.
The department assists students to make healthier choices to improve their MSU experience through a variety of free services. Through the goal-Driven Alcohol drug intervention Network (G.A.I.N.) program, students are educated about making wise choices concerning alcohol consumption. Students recovering from substance abuse, behavioral and process addictions or eating disorders will find the support and resources they need within the Collegiate Recovery Community. A registered dietitian is available for appointments, and programs and tobacco cessation sessions are free to all students, faculty, and staff. The department supports and promotes the healing, renewal, safety, and justice for survivors of dating violence, domestic violence, sexual assault, and stalking through education, awareness, and advocacy efforts as well.

The Health Education and Wellness Department hosts programs, presentations, and campus-wide awareness campaigns for various health topics. Visit the website [www.health.msstate.edu](http://www.health.msstate.edu) to learn more about the department and its services or to request a program.

**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 MSU 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 should be sent directly to the Student Health Center where they are kept confidential. Health records are not a part of the school records and are kept indefinitely for future reference. For medical records, call 662-325-0706.

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](http://www.health.msstate.edu) or at John C. Longest Student Health Center, Box 6338, Mississippi State, MS 39762, telephone 662-325-5895.

**HOUSING 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 4,800 students (standard capacity is two students per room). These accommodations include private rooms for upper-class and graduate students. Current housing fees are posted at [www.housing.msstate.edu](http://www.housing.msstate.edu).

**Application 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 $60.00 application fee is required. For more information, visit [www.housing.msstate.edu/apply](http://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/](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.

SANDERSON CENTER
The Joe Frank Sanderson Center offers a wide range of recreational activities for the MSU community in a state-of-the-art facility. For more information, go to http://www.recsports.msstate.edu.

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, social work, psychology, and psychiatry who are knowledgeable in facilitating personal growth and development. Student Counseling Services offers individual and group counseling, psychiatric evaluations, medication management, workshops, and walk-in urgent care. Consultation regarding student concerns is available to concerned faculty, staff, students, and family members. For more information about services, please visit the Student Counseling Services website at http://www.health.msstate.edu/scs/.

The Sexual Assault Response Team (SART) is a service of Student Counseling Services. SART responds to sexual assaults through crisis response, 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, the Department of Housing & Residence Life, the Dean of Students 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.

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.

<table>
<thead>
<tr>
<th></th>
<th>Fall 2013</th>
<th>Spring 2014</th>
<th>Summer 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Resident Tuition &amp; Required Fees (T&amp;RF)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Per Credit Hour-Grad (1-8 Hours)</td>
<td>$370.75</td>
<td>$370.75</td>
<td>$370.75</td>
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<tr>
<td>Per Term Maximum</td>
<td>$3,336.00</td>
<td>$3,336.00</td>
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<tr>
<td><strong>Non-Resident Tuition (NR)</strong></td>
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<td></td>
</tr>
<tr>
<td>Per Credit Hour-Grad (1-8 Hours)</td>
<td>$566.00</td>
<td>$566.00</td>
<td>$566.00</td>
</tr>
<tr>
<td>Per Term Maximum</td>
<td>$5,094.00</td>
<td>$5,094.00</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Distance Education</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Per Credit Hour-Grad Plus Instructional Support Fee: $25 per credit hour</td>
<td>$370.75</td>
<td>$370.75</td>
<td>$370.75</td>
</tr>
<tr>
<td>Per Credit Hour-Grad Plus Instructional Support Fee: $25 per credit hour</td>
<td>$370.75</td>
<td>$370.75</td>
<td>$370.75</td>
</tr>
</tbody>
</table>

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

Per credit hour rates are 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 Center for Distance Education are in addition to all other campuses’ 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. However, an additional fee may be required for football admission or for some activities because of less than full-time academic 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.

Course Change Fees—This information is accessed at http://www.msstate.edu/dept/audit/1201.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.

Refund schedule information is accessed at http://www.registrar.msstate.edu/Policies/RefundSchedule.pdf. 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 may 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 may 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 the MSU ID number with all payments.
If sending a payment via US Postal 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 may 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 have 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 Express, 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 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 of 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:
— Direct Deposit: Utilizing the BULL-e-BUCKS electronic account management program via the myState portal
— In person: Account Services located in Garner Hall
— 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:
— In person: account Services located in Garner Hall
— 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 from 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 Account**—From the MSU main Web page, the student should select myState; secure user access using his/her personal NetID and password; click on the Banner tab for access to the following services:
1. Change billing address and/or E-mail address
2. View current or prior billing statement
3. View account detail history
4. Make a payment by credit card or e-check
5. Authorize another user to help manage or make payment to the student’s account
6. Access a remittance stub to make a payment via US mail
7. View pending financial aid or scholarships
8. Use the BULL-e-BUCK$ program to direct-deposit refund or make a transfer to the student’s 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 Hall, at the beginning of the semester.

**Senior Citizen**—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. These courses are available on a space-available, first-come, first-serve basis. Enrollment in courses offered for the Doctor of Veterinary Medicine degree is not permitted. The application fee of $60.00 is required with the graduate application.

**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 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.

<table>
<thead>
<tr>
<th>Course Numbers</th>
<th>Level of Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001-2999</td>
<td>Lower division courses (Undergraduate credit only)</td>
</tr>
<tr>
<td>3001-4999</td>
<td>Upper division courses (Undergraduate credit only)</td>
</tr>
<tr>
<td>4001</td>
<td>Directed Individual Study (Undergraduate credit only)</td>
</tr>
<tr>
<td>5001-5999</td>
<td>Fifth year undergraduate or Professional courses</td>
</tr>
<tr>
<td>6011-6999</td>
<td>Courses for graduate credit only</td>
</tr>
<tr>
<td>7011-7999</td>
<td>Courses for graduate credit only</td>
</tr>
<tr>
<td>8011-8999</td>
<td>Courses for graduate credit only</td>
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<tr>
<td>9011-9999</td>
<td>Courses for graduate credit only</td>
</tr>
<tr>
<td>7000</td>
<td>Directed Individual Study (Graduate credit only)</td>
</tr>
<tr>
<td>8000</td>
<td>Master’s level research and thesis</td>
</tr>
<tr>
<td>9000</td>
<td>Doctoral level research and dissertation</td>
</tr>
</tbody>
</table>

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.
More than ever, global economic development, scientific exploration, and security are interconnected. The International Institute at Mississippi State University fully integrates our land-grant institution’s 130-plus years of leadership, teaching, research, and service into the global arena. Founded in June 2011, the Institute serves as the hub of the University’s international education, global engagement, and development activities.

The MSU International Institute enriches and expands the academic and cultural experiences of faculty, students, staff, and community through global outreach, research, and academic programs. The Institute’s academic offerings include both English as a Second Language (ESL) and Study Abroad programs. Currently, MSU hosts more than 800 international students and over 100 exchange visitor scholars from 75-plus countries. The Institute assists prospective international students with recruiting and arrival services and provides immigration advisory services for faculty and students. In addition, the International Institute develops, promotes, and aids faculty and student engagement in international scholarly and research activities through Fulbright and other scholarship programs. The Institute also supports multicultural events to help international students celebrate their home culture and tradition while at MSU. The events also help students to develop awareness and understanding of other cultures and traditions by meeting people from diverse backgrounds.

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL 5110</td>
<td>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)</td>
</tr>
<tr>
<td>ESL 5120</td>
<td>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)</td>
</tr>
<tr>
<td>ESL 5323</td>
<td>Academic Research and Writing (ESL 5120 or TOEFL score above 500 [or equivalent]). 3 hours (Does not count towards any degree)</td>
</tr>
<tr>
<td>ESL 5333</td>
<td>Critical Reading (ESL 5120 or TOEFL score above 500 [or equivalent]). 3 hours (Does not count towards any degree)</td>
</tr>
</tbody>
</table>
ESL 5313 Classroom Communication and Presentation (ESL 5120 or TOEFL score above 525 [or equivalent]). 3 hours (Does not count towards any degree)

The Career Center
Scott N. Maynard, Director
300 Montgomery Hall
Mississippi State University, MS 39762
Telephone: 662-325-3344
website: http://www.career.msstate.edu
E-mail: smaynard@career.msstate.edu

Graduate students may enhance their studies with relevant experience through programs offered by the Career Center. Cooperative education and internships are available. Cooperative Education requires students to complete two work periods, one of which may be a summer. Internships are one semester in duration and may occur during any academic period (fall, spring, summer). Students are encouraged to seek specific information prior to, or immediately upon, enrollment in the graduate program.

These credit-hour programs will be included on a graduate student’s transcript but cannot be used to satisfy course-hour requirements on a graduate student’s program of study.

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.
COLLEGE OF AGRICULTURE AND LIFE SCIENCES

Dr. George Hopper, Dean
Dr. Mark Crenshaw, Interim Associate Dean
201 Bost Extension Building
Telephone: 662-325-2110
Fax: 662-325-8580
Mailing Address: Box 9760, Mississippi State, MS 39762
E-mail: dean@cals.msstate.edu
E-mail: http://www.cals.msstate.edu/

DEGREE AND CERTIFICATE PROGRAMS
(T=thesis; NT=non-thesis)
[Offered: 1=Starkville, 2=Meridian, 5=Distance]

DEPARTMENT OF AGRICULTURAL ECONOMICS
Master of Science
Major: Agriculture; Concentration in Agricultural Economics (T; NT) [1]

DEPARTMENT OF ANIMAL AND DAIRY SCIENCES
Master of Science
Major: Agriculture; Concentration in Animal Science (T; NT) [1]
Doctor of Philosophy
Major: Agricultural Sciences; Concentration in Animal and Dairy Science [1]

DEPARTMENT OF BIOCHEMISTRY, MOLECULAR BIOLOGY, ENTOMOLOGY, AND PLANT PATHOLOGY
Master of Science
Major: Agricultural Life Sciences; Concentration in Biochemistry (T; NT) [1]; Entomology (T) [1]; Plant Pathology (T) [1]
Doctor of Philosophy
Major: Molecular Biology [1]

DEPARTMENT OF FOOD SCIENCE, NUTRITION AND HEALTH PROMOTION
Master of Science
Major: Food Science, Nutrition and Health Promotion; Concentrations in Food Science & Technology (T) [1]; Health Promotion (T; NT) [1]; Nutrition (T) [1]
Doctor of Philosophy
Major: Food Science, Nutrition and Health Promotion; Concentrations in Food Science and Technology [1]; Nutrition [1]

SCHOOL OF HUMAN SCIENCES
Master of Science
Major: Agricultural & Extension Education;
Concentrations in Teaching (T; NT) [1]; Leadership (T; NT) [1]

Master of Science
Major: Human Development & Family Studies (T; NT) [1]

Doctor of Philosophy
Major: Agricultural Sciences; Concentration in Agricultural & Extension Education [1]
Major: Human Development & Family Studies [1]

Doctor of Philosophy
Major: Human Development & Family Studies [1]

Gerontology Graduate Certificate

DEPARTMENT OF LANGUAGE AND LITERATURE
Master of Landscape Architecture
Major: Landscape Architecture (T) [1]

DEPARTMENT OF PLANT AND SOIL SCIENCES
Master of Science
Major: Agriculture; Concentrations in Agronomy (T; NT) [1]; Horticulture (T) [1]; Weed Science (T) [1]

Doctor of Philosophy
Major: Agricultural Sciences; Concentrations in Agronomy [1]; Horticulture [1]; Weed Science [1]

DEPARTMENT OF POULTRY SCIENCE
Master of Science
Major: Agriculture; Concentration in Poultry Science (T; NT) [1]

Doctor of Philosophy
Major: Agricultural Sciences; Concentration in 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
AGRIBUSINESS MANAGEMENT
An Interdisciplinary Program
Dr. Steven C. Turner, Department Head
Dr. Barry J. Barnett, Graduate Coordinator
101 Lloyd Ricks Watson
Box 5187
Mississippi State, MS 39762
Telephone: 662-325-2750
Website: 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.

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 Code</th>
<th>Course Title</th>
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<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>
<tr>
<td>MKT 3013</td>
<td>Principles of Marketing</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 Code</th>
<th>Course Title</th>
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<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: aabe.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</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABE 6163</td>
<td>Agricultural Machinery Management</td>
<td>3</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.

**AGRICULTURAL ECONOMICS**

**Dr. Steven C. Turner, Head**
**Dr. Barry J. Barnett, Graduate Coordinator**
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Website: [www.agecon.msstate.edu](http://www.agecon.msstate.edu)

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

Spring Semester, First Year
AEC 8621 Research Seminar II. 1 hour
AEC 8143 Agricultural Production Economics. 3 hours
AEC 8233 Applied Welfare and Environmental Economics
AEC 8123 Market Organization and Structure. 3 hours

Remaining Courses
AEC 8843 Survey Design and Experimental Economics. 3 hours
AEC 8413 Game Theory. 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.
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 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 Sciences, core courses as part of the program of study must include ST 8114 and one hour of graduate seminar.

Graduate Committee
In addition to the Graduate School requirements for a master’s graduate committee, the department requires that at least two committee members must be from the Department of Animal and Dairy Sciences.

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.

Graduate Courses—Course prerequisites are noted in parentheses.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ADS 6112</td>
<td>Equine Reproduction [Same as PHY 6112]</td>
<td>3</td>
</tr>
<tr>
<td>ADS 6115</td>
<td>Animal Nutrition (CH 2503 and CH 2501 or CH 4513 and CH 4511)</td>
<td>5</td>
</tr>
<tr>
<td>ADS 6123</td>
<td>Animal Breeding (PO 3103)</td>
<td>3</td>
</tr>
<tr>
<td>ADS 6213</td>
<td>Livestock Nutrient Requirements and Formulation of Rations</td>
<td>3</td>
</tr>
</tbody>
</table>
ANOIMAL 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 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 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.
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 Concentration in Animal Nutrition
Admission Criteria
Prerequisites for admission include a master’s degree. A minimum of 3.00 quality point average on a 4.00 scale is required for all post-baccalaureate courses. Any request for Graduate Record Examination (GRE) 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 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.

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
Mark A. Crenshaw, Extension Professor, Animal and Dairy Sciences
Steve Demarais, Professor, Wildlife and Fisheries
Stephanie R. Hill, Assistant Professor, Animal and Dairy Sciences
Brandi Karisch, Assistant Extension/Research Professor, Animal and Dairy Sciences
Shengfa Liao, Assistant Professor, Animal and Dairy Sciences
Jane A. Parish, Extension Professor, Animal and Dairy Sciences
Daniel Rivera, Assistant Research/Extension Professor, Animal and Dairy Sciences
Brian J. Rude, 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
FNH 6243 Composition and Chemical Reactions of Foods (CH 1053 and CH 2503 or equivalent). 3 hours
FNH 6253 Nutritional Biochemistry of Foods (CH 2503 or equivalent with consent of instructor). 3 hours
FNH 6293 Vitamins, Minerals and Supplements (CH 2503 or equivalent with consent of instructor). 3 hours
FNH 6423 Feed Manufacturing. 3 hours
FNH 6990 Special Topics in Food Science, Nutrition and Health Promotion. 1-9 hours
FNH 7000 Directed Individual Study. 1-6 hours
FNH 8000 Thesis Research/Thesis. Credit hours to be arranged; minimum of 6 hours required for degree
ADS 8111-8131 Nutrition Seminar. 1 hour
PO 8123 Methods In Nutrition Research (NTR 6114 or equivalent). 3 hours
ADS 8153 Ruminant Nutrition (NTR 6114 or equivalent). 3 hours
ADS 8162 Monogastric Nutrition (NTR 6114 or equivalent). 2 hours
FNH 8233 Maternal, Infant, and Child Nutrition. 3 hours
FNH 8243 Community Nutrition (FNH 3213). 3 hours
FNH 8253 Nutrition and Food Science Research Techniques. 3 hours
FNH 8254 Dietetic Internship Seminar. 1 hour
FNH 8273 Dietetic Internship Capstone. 3 hours
PO 8443 Avian Nutrition. 3 hours
ADS 8463 Advanced Animal Nutrition. 3 hours
ADS 8473 Micro-Nutrient Nutrition (NTR 6115 or equivalent). 3 hours

ANIMAL PHYSIOLOGY
An Interdisciplinary Program
Dr. Kenneth Willeford, Graduate Coordinator
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Mississippi State, MS 39762
Telephone: 662-325-2651
E-mail: kwilleford@bch.msstate.edu

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 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
Blanton, John, Jr., Ph.D., Professor and Department Head, Animal and Dairy Sciences
Howard Chambers, Professor, Biochemistry, Molecular Biology, Entomology & Plant Pathology
Janice E. Chambers, Professor, Basic Science, College of Veterinary Medicine and Director, Center for Environmental Health Sciences
Timothy N. Chamblee, Associate Professor, Poultry Science
David Christiansen, Assistant Clinical Professor, Pathobiology and Population Medicine
Jean M. Feugang, Assistant Research Professor, Animal and Dairy Sciences
Federico G. Hoffman, Assistant Professor
Richard M. Hopper, Professor
Dean Jousan, Associate Extension Professor, Animal and Dairy Sciences
Jamie Larson, Assistant Professor, Animal and Dairy Sciences
Robert L. Linford, Professor
Job E. Lopez, Assistant Professor
Christopher McDaniel, Professor, Poultry Science
Erdogan Memili, Associate Professor, Animal and Dairy Sciences
Molly Nicodemus, Associate Professor, Animal and Dairy Sciences
F. David Peebles, Professor, Poultry Science
David A. Ray, Assistant Professor, Biochemistry, Molecular Biology, Entomology & Plant Pathology
Peter L. Ryan, Professor, Animal and Dairy Sciences and Associate Provost
Trent Smith, Associate Professor, Animal and Dairy Sciences
James A. Stewart, Jr., Assistant Professor, Biological Sciences
Justin A. Thornton, Assistant Professor, Biological Sciences
Rhonda Vann, Associate Research Professor, Animal and Dairy Sciences
Scott T. Willard, Professor and Department Head, Biochemistry, Molecular Biology, Entomology and Plant Pathology
Kenneth O. Willeford, Professor of Biochemistry, Molecular Biology, Entomology & Plant Pathology and Graduate Coordinator, Animal Physiology
Robert W. Wills, Professor, Pathobiology and Population Medicine
Wei Zhai, Assistant Professor, Poultry Science
Nikolay M. Filipov, Associate Professor, Department of Physiology and Pharmacology, College of Veterinary Medicine, University of Georgia, and Andrew Kouba, Director of Conservation Research, Memphis Zoo, Memphis, TN, both hold Committee Participant appointments in the program.

**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 6844** Poultry Physiology (Same as PO 6844). 4 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

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**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@business.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@business.msstate.edu or phone 662-325-2341.

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**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 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 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 a final oral examination. The student may select either a research thesis or a project (non-thesis) option in his/her program of study. If a thesis is selected, the student must register for a minimum of 6 credit hours of research/thesis and complete a thesis (research project). If the project (non-thesis) option is selected, the student must complete two additional graduate courses (6 credit hours) in an area of interest and complete an independent research paper related to the area of interest by enrolling in 3 hours of directed individual study. The research paper will be the equivalent of a research literature review and will be reviewed by the student’s committee. All students are required to present two seminars (BCH 8101); one usually in the second semester in residence (e.g., proposal topic) and one on the final research results or project of the student.

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.

**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’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.

**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** Macronutrients: Human Metabolism (FNH majors: Grade of C or better or concurrent enrollment in BCH 4013 and Junior or Senior Standing; or BCH major). (Same as FNH 4253/6253). 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) (Same as GNS 6713). 3 hours
- **BCH 6804** Molecular Biology Methods (Coregistration in BCH 4613/6613) (Same as GNS 6804). 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) [Same as GNS 8643, PHY 8643]. 3 hours
BCH 8654  Intermediary Metabolism (BCH 4613/6613). 4 hours
BCH 8990  Special Topics in Biochemistry. 1-9 hours
BCH 9000  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
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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 1134 and BIO 1144 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 4113/6113 or consent of instructor). 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 6313  Forensic Entomology. 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 or consent of instructor). 3 hours
EPP 8133 Plant Bacteriology (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
EPP 8624 Population Ecology of Insects (A course in general ecology). 4 hours
EPP 8990 Special Topics in Entomology or Plant Pathology. 1-9 hours
EPP 9000 Dissertation/Research/Dissertation. Credit hours to be arranged; minimum of 20 hours required for degree

FOOD SCIENCE, NUTRITION AND HEALTH PROMOTION
Dr. Sam K. Chang, Department Head
Dr. Zee Haque, Graduate Coordinator
Herzer Building
Box 9805
Mississippi State, MS 39762
Telephone: 662-325-3200
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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 pursuing 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 pursuing the Ph.D. degree in Food Science, Nutrition and Health Promotion with a concentration in Nutrition selects courses in 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,
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.

Department Representatives/ Title/Concentration
C. A. Briley, Assistant Professor/Extension Specialist, Community Nutrition (Nutrition)
S. H. Byrd, Associate Professor, Food Science, Nutrition and Health Promotion (Nutrition)
B. J. Fountain, Associate Extension Professor, Food Science, Nutrition and Health Promotion (Nutrition)
W. T. Gillis, Lecturer, Dairy Foods and Quality Assurance (Food Science and Technology)
Z. Z. Haque, Professor and Graduate Coordinator, Nutritional Biochemistry & Food System Functionality (Food Science and Technology)
A. F. Hood, Extension Professor & Food Technologist (Food Science and Technology)
B. P. Hunt, Professor, Health Education and Health Promotion (Health Promotion)
T.J. Kim, Assistant Professor, Food Safety, Food Biochemistry and Molecular Food Microbiology (Food Science and Technology)
W. B. Mikel, Professor, Food Science, Nutrition and Health Promotion (Food Science and Technology)
R. Nannapaneni, Assistant Research Professor, Food Safety and Food Microbiology (Food Science and Technology)
M. W. Schilling, Associate Professor, Food Chemistry, Muscle Foods, and Sensory Science (Food Science and Technology)
J. L. Silva, Professor, Food Processing and Safety (Food Science and Technology)
D. K. Tidwell, Associate Professor, Food Science, Nutrition and Health Promotion (Nutrition)
J. B. Williams, Assistant Professor, Muscle Foods (Food Science and Technology)
R.D. Williams, Assistant Professor, Health Education and Health Promotion (Health Promotion)

Food Science, Nutrition and Health Promotion Courses—Course prerequisites are noted in parentheses.

FNH 6013 Nutrition Assessment (Grade of C or better in FNH 2293 and KI 2603 and Junior Standing). 3 hours

FNH 6114 Analysis of Food Products (CH 2503). 4 hours

FNH 6123 Nutrition and Chronic Disease (Grade of C or better in FNH 4013/6013 and Junior or Senior Standing). 3 hours

FNH 6143 Dairy Foods Processing. 3 hours

FNH 6153 Food Plant Management (Consent of instructor). 3 hours

FNH 6164 Quality Assurance of Food Products (BIO 3304). 4 hours

FNH 6173 Food Packaging (Consent of instructor). 3 hours

FNH 6193 Social and Cultural Aspects of Food. 3 hours

FNH 6223 Sports Nutrition (FNH 2293 or consent of instructor). 3 hours

FNH 6233 Medical Nutrition Therapy (Grade of C or better in FNH 4013/6013 and Junior or Senior Standing). 3 hours

FNH 6241 Applied Food Chemistry (BCH 3613 and prior credit for/or current enrollment in FNH 4243/6243). 1 hour

FNH 6243 Composition and Chemical Reactions of Foods (Grade of C or better in CH 1213, and CH 2503 or equivalent, and Junior or Senior Standing). (Same as ADS 4243/6243). 3 hours

FNH 6253 Macronutrients: Human Metabolism (FNH Majors: Grade of C or better or concurrent enrollment in BCH 4013 and Junior or Senior Standing). (Same as BCH 4253/6253). 3 hours

FNH 6274 Advanced Food Service Management (FNH 3274, FNH 4283). 4 hours

FNH 6283 Purchasing Food and Equipment for Foodservice Systems. 3 hours

FNH 6293 Micronutrients: Human Metabolism (Grade of C or better in BCH 4013 and Junior or Standing). 3 hours

FNH 6313 Advanced Science of Muscle Foods [Same as ADS 4313/6313]. 3 hours

FNH 6314 Introduction to Meat Science. 4 hours

FNH 6333 Food Law (Consent of instructor). 3 hours

FNH 6353 Nutrition/Life Cycle (BIO 4253/6253 or consent of instructor) [Same as HS 4353/6353]. 3 hours

FNH 6373 Nutrition Education and Counseling Skills (Grade of C or better in FNH 3723 and Junior or Senior Standing.). 3 hours

FNH 6393 Prevention and Control of Disease. 3 hours

FNH 6414 Microbiology of Foods (BIO 3404) [Same as BIO 6414]. 4 hours
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 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, 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.

**Prerequisite**—Individuals with a Bachelor of Science in the biological or physical sciences will be considered.

**Master of Science**
**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.

**Doctor of Philosophy**
**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.

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**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 Science
- D.E. Rowe Professor, Plant and Soil Science, Experimental Statistics
- T. Smith Assistant Professor, Animal and Dairy 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 concentration in Teaching or Leadership
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 concentration must have an undergraduate degree in an agriculturally-related field 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 172
  - Writing 173
  - Mathematics 172

The applicant for the doctoral degree must have a 3.00 GPA on 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.

Master of Science
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 concentration are: AIS 8803 or AIS 8703, AIS 8603, AIS 8503, AIS 8413, AIS 8801, and AIS 8263 or AIS 8203. The remaining courses in the leadership concentration 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 concentration 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 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 the minimum Praxis II – Principles of Learning and Teaching: Grades 7-12 (PLT) score as required by the Mississippi State University College of Education to meet graduation requirements and to the Mississippi Department of Education to obtain licensure. To be eligible for graduation, students must also have a 3.00 GPA after admission to the program.

To secure a Mississippi educator’s license, the student must request that ETS send a copy of his or her score...
on the Principles of Learning and Teaching (PLT) to Mississippi State University (Code R1480) or to MSU Meridian (Code R3336). It is imperative that the student retains the originals of test scores in a safe place.

In accordance with statutory provisions, the Mississippi Department of Education, Jackson, Mississippi, has adopted the rules and regulations on issuing and renewing teaching licenses, which are set forth in Guidelines for Mississippi Educator Licensure, July 1999. The licensure program is applicable to all teacher licenses. Satisfactory completion of any teaching curriculum offered by the College of Education will enable the graduate to apply for teaching licensure in Mississippi, but this institution can neither waive any licensure requirements nor authorize substitutions for mandatory courses. Mississippi State University has submitted and received approval for its programs. Consequently, a student who plans to transfer from another university or college to the College of Education should consult with the Director of Clinical/Field-Based instruction or an advisor in the College of Education to ascertain the general education, professional educational, and specialized education courses which must be completed to obtain a teaching license in the field or fields of his or her choice. Since teacher licenses are issued by the Mississippi Department of Education only, and not by the teacher education institutions, applications for licensure and original test scores must be filed with the Mississippi Department of Education by the applicant. Information concerning teacher licensure can be obtained from the Office of Clinical/Field-Based Instruction.

A student who chooses to complete a thesis must pass a final thesis defense and submit the thesis to complete degree requirements. A written or oral final comprehensive examination is required for a student who does not complete a thesis.

**Doctor of Philosophy**

**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), 12 graduate credits in statistics, research, and evaluation (AIS 8803, AIS 8703, AIS 9583, EPY 8214, and EPY 9213 are required), 0-12 graduate elective credits, and 20 credit hours of dissertation research/dissertation. Students must pass a written and an 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:**

- AIS 6103 Objectives and Procedures of Programs in Agricultural Information Science and Education. 3 hours
- AIS 6113 Methods of Teaching Agriscience (AIS 4203/6203 or consent of instructor). 3 hours
- AIS 6203 Applications of Computer Technology to Agricultural Information Science and Education. 3 hours
- AIS 6303 Applications of Information Technologies in Agricultural Learning Systems. 3 hours
- AIS 6403 Development of Youth Programs. 3 hours
- AIS 6503 International Agricultural Education. 3 hours
- AIS 6990 Special Topics in Agricultural Information Science and Education. 1-9 hours
- AIS 7000 Directed Individual Study. 1-6 hours
- AIS 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 8203</td>
<td>Advanced Communication in Agricultural Information Science and Education.</td>
<td>3</td>
</tr>
<tr>
<td>AIS 8243</td>
<td>Administration and Supervision in Agricultural Information Science and Education.</td>
<td>3</td>
</tr>
<tr>
<td>AIS 8263</td>
<td>Public Relations in Agricultural Information Science and Education.</td>
<td>3</td>
</tr>
<tr>
<td>AIS 8403</td>
<td>Directing Learning Experiences in Agricultural Information Science and Education.</td>
<td>3</td>
</tr>
<tr>
<td>AIS 8413</td>
<td>Method of Planned Change in Agricultural and Extension Education.</td>
<td>3</td>
</tr>
<tr>
<td>AIS 8503</td>
<td>Program Planning and Development in Agricultural Information Science and Education.</td>
<td>3</td>
</tr>
<tr>
<td>AIS 8513</td>
<td>Volunteer Development in Agricultural and Extension Education.</td>
<td>3</td>
</tr>
<tr>
<td>AIS 8523</td>
<td>Teaching Out-of-School Groups in Agricultural Information Science and Education.</td>
<td>3</td>
</tr>
<tr>
<td>AIS 8593</td>
<td>Historical Foundations of Agriculture and Human Science.</td>
<td>3</td>
</tr>
<tr>
<td>AIS 8606</td>
<td>Student Teaching in Agricultural Information Science and Education (admission to the graduate certification program, teacher education and student teaching).</td>
<td>6</td>
</tr>
<tr>
<td>AIS 8693</td>
<td>Philosophical Foundations of Agriculture and Human Sciences.</td>
<td>3</td>
</tr>
<tr>
<td>AIS 8703</td>
<td>Evaluation of Agricultural Information Science and Education Programs.</td>
<td>3</td>
</tr>
<tr>
<td>AIS 8801</td>
<td>Graduate Professional Seminar in AIS.</td>
<td>1</td>
</tr>
<tr>
<td>AIS 8803</td>
<td>Applying Research Methods to Agricultural Information Science and Education.</td>
<td>3</td>
</tr>
<tr>
<td>AIS 8990</td>
<td>Special Topics in Agricultural Information Science and Education.</td>
<td>1-9</td>
</tr>
<tr>
<td>AIS 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree.</td>
<td>3</td>
</tr>
<tr>
<td>AIS 9583</td>
<td>Analysis and Interpretation of Data in Agriculture and Extension Education Research (permission of instructor).</td>
<td>3</td>
</tr>
</tbody>
</table>

**GERONTOLOGY CERTIFICATE**

An Interdisciplinary Program

Dr. Joe Wilmoth, Graduate Coordinator

220-B Lloyd-Ricks-Watson Building
Box 9745
Mississippi State, MS 39762
Telephone: 662-325-1799
E-mail: jwilmoth@humansci.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. Joe Wilmoth, Coordinator, Graduate-Level Gerontology Certificate, 220-B Lloyd-Ricks-Watson Building, Box 9745, Mississippi State, MS 39762, 662-325-1799.

Requirements include 13-15 credit hours.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 6403</td>
<td>Introduction to Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>-----</td>
<td>Directed Individual Study/Readings</td>
<td>1-3</td>
</tr>
<tr>
<td>HS 6813</td>
<td>Adult Development: The Middle Years.</td>
<td>3</td>
</tr>
<tr>
<td>SO 6413</td>
<td>Aging and Retirement in American Society.</td>
<td>3</td>
</tr>
<tr>
<td>HS 6813</td>
<td>Adult Development: The Middle Years.</td>
<td>3</td>
</tr>
<tr>
<td>COE 6713</td>
<td>Issues in Aging.</td>
<td>3</td>
</tr>
<tr>
<td>COE 8813</td>
<td>Counseling Elderly Clients.</td>
<td>3</td>
</tr>
<tr>
<td>SO 6433</td>
<td>Sociology of Death and Dying.</td>
<td>3</td>
</tr>
</tbody>
</table>

**HUMAN SCIENCES**

Dr. Tommy Phillips, Graduate Coordinator

203 Lloyd Ricks Watson Building
Box 9745
Mississippi State, MS 39762
Telephone: 662-325-0655
E-mail: tphillips@humansci.msstate.edu

The School of Human Sciences offers both the Master of Science and the Doctor of Philosophy in Human Development and Family Studies (HDFS). Contact the
Human Development and Family Studies is an interdisciplinary approach to the study of individual and family development in a variety of contexts across the lifespan, from conception to later life. It encompasses specialty areas in infant and child studies, youth studies, family studies, family resource management, and gerontology.

**Master of Science**

**Admission Requirements**

An applicant for the Master of Science degree must:

- meet all MSU Graduate School requirements for admission;
- have earned a baccalaureate degree in HDFS or a related field;
- submit a Graduate Record Examination (GRE) score competitive with other applicants;
- submit three letters of recommendation, with at least two letters from individuals familiar with applicant's academic work;
- submit a personal statement (500-1,000 words) describing his/her purpose for undertaking graduate student, including professional plans and career goals.


An undergraduate GPA of 3.00 is preferred. A student admitted provisionally to the program must fulfill Graduate School provisional admission requirements found in this publication.

Qualified applicants for the HDFS graduate program are expected to have interests and goals that are consistent with the department's faculty expertise and course offerings. Admission decisions are based on a holistic consideration of the applicant’s credentials. Based on educational background, the applicant may be required to take some remedial coursework before acceptance into the program.

**Completion Requirements**

A master's student pursing the thesis option is required to complete 6 research/thesis hours as part of the 31 required hours. A thesis committee, consisting of the student's major professor and two other graduate faculty members, must be established. A thesis defense before the committee is required.

A student pursuing the non-thesis option will complete 6 hours in a Directed Individual Study as part of the 31 required hours. The student’s major professor and two other graduate faculty members will comprise the graduate committee. A final comprehensive oral examination is required.

The Master of Science degree requirements include the following courses in the 31-hour program.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>HS 8813</td>
<td>Seminar in Human Development &amp; Family Studies</td>
</tr>
<tr>
<td>HS 8823</td>
<td>Advanced Theories of Human Development and Family Relations</td>
</tr>
<tr>
<td>HS 8803</td>
<td>Applying Research Methods to AISE (thesis-option)</td>
</tr>
<tr>
<td>HS 8703</td>
<td>Evaluation of Agriculture and Extension Education (non-thesis option)</td>
</tr>
<tr>
<td>EPY 6214</td>
<td>Education and Psychology Statistics</td>
</tr>
<tr>
<td>AIS 8503</td>
<td>Program Planning and Development in AIS</td>
</tr>
<tr>
<td>HS 8000</td>
<td>Research/Thesis (thesis option)</td>
</tr>
<tr>
<td>HS 7000</td>
<td>Directed Individual Study (non-thesis option)</td>
</tr>
</tbody>
</table>

Focus areas (select 9 hours)

**Infant & Child Focus:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HS 8113</td>
<td>Trends in Infant &amp; Child Development*</td>
</tr>
<tr>
<td>HS 6883</td>
<td>Risk, Resilience and Preventive Interventions</td>
</tr>
<tr>
<td>COE 8913</td>
<td>Counseling Children</td>
</tr>
<tr>
<td>EDE 9420</td>
<td>Research Practicum in Early Childhood Education</td>
</tr>
<tr>
<td>EPY 8293</td>
<td>Cognitive Development</td>
</tr>
<tr>
<td>HS 6823</td>
<td>Development and Administration of Child Service Programs</td>
</tr>
<tr>
<td>EDX 6423</td>
<td>Teaching the Disadvantaged Child</td>
</tr>
<tr>
<td>PSY 6713</td>
<td>Language &amp; Thought</td>
</tr>
<tr>
<td>EDX 6353</td>
<td>Assistive Technology in Special Education</td>
</tr>
</tbody>
</table>

**Youth Focus:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>HS 8313</td>
<td>Contemporary Youth Issues*</td>
</tr>
<tr>
<td>HS 6883</td>
<td>Risk, Resilience and Preventive Interventions</td>
</tr>
<tr>
<td>HS 6873</td>
<td>Positive Youth Development</td>
</tr>
<tr>
<td>SO 6233</td>
<td>Juvenile Delinquency</td>
</tr>
<tr>
<td>SO 6333</td>
<td>Sociology of Sports</td>
</tr>
<tr>
<td>AIS 6403</td>
<td>Development of Youth Programs</td>
</tr>
</tbody>
</table>

Courses from Great Plains Consortium (http://www.gpidea.org/) **

**Family Focus:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 8413</td>
<td>Issues in Family Studies*</td>
</tr>
<tr>
<td>HS 8423</td>
<td>Development of Intimate Relationships</td>
</tr>
<tr>
<td>COE 8303</td>
<td>Family Counseling Theory</td>
</tr>
<tr>
<td>HS 6313</td>
<td>Family Resource</td>
</tr>
<tr>
<td>HS 6333</td>
<td>Families, Legislation and Public Policy</td>
</tr>
<tr>
<td>HS 6403</td>
<td>Introduction to Gerontology</td>
</tr>
<tr>
<td>HS 6803</td>
<td>Parenting</td>
</tr>
<tr>
<td>HS 6813</td>
<td>Adult Development: The Middle Years</td>
</tr>
<tr>
<td>HS 6843</td>
<td>Family Interaction</td>
</tr>
</tbody>
</table>
HS 6853 The Family: An Ecological Perspective
HS 6883 Risk, Resilience, and Preventive Interventions
SO 6203 The Family in the United States
SO 6223 Comparative Family Systems

**Family Resource Management Focus:**
HS 6313 Family Resource Management*
HS 6333 Families, Legislation and Public Policy
HS 6863 Consumer Aspects of Aging
HS 6323 Consumer Issues and Policy
HS 6683 Current Housing Problems of Families

Courses from Great Plains Consortium (http://www.gpidea.org/)**

**Gerontology Focus:**
HS 6403 Introduction to Gerontology*
PSY 6983 Psychology of Aging
HS 6863 Consumer Aspects of Aging
SO 6413 Aging and Retirement in American Society
COE 6713 Issues in Aging
COE 8813 Counseling Elderly Clients
SO 6433 Sociology of Death and Dying

*Required course within focus area
**See Transfer Credit in General Master’s Degree Requirements section of this publication.

Note: Courses may be substituted depending on student interest area and course availability. Advisor approval will be required in advance. At least one-half of the coursework in the degree program, exclusive of thesis credits, must be at the 8000 level. Approved HS 7000 Directed Individual Study (DIS) credit hours count toward 8000-level requirements. No more than 6 semester hours of graduate credit may be earned in DIS courses. Students may transfer up to 6 semester hours of courses from other accredited degree programs.

**Doctor of Philosophy**

**Admission Requirements**
An applicant for the Doctor of Philosophy degree must
- meet all MSU graduate School requirements for admission;
- have earned a baccalaureate degree in HDFS or a related field;
- have completed the following courses or their equivalents: AIS 8803 Research methods; HS 8823 Advanced Theories of Human Development and Family Relations; 3 hours graduate-level statistics; and HS 8813 Seminar in HDFS;
- submit a Graduate Record Examination (GRE) score competitive with other applicants;
- submit three letters of recommendation, with at least two of the letters coming from individuals familiar with the applicant’s academic work;
- submit a personal statement (500-1,000 words) describing the applicant’s purpose for undertaking graduate study, professional plans, career goals, and detailed research interests.

For international, non-native speakers of English, a TOEFL score indicative of ability to successfully complete graduate work is required. See English Language Test Score Requirements in the Admission section of this publication for more information.

A grade point average of 3.00 on prior graduate work is preferred for admission to the doctoral program in HDFS. Qualified applicants for the HDFS graduate program are expected to have interests and goals that are consistent with the department’s faculty expertise and course offerings. Admission decisions are based on a holistic consideration of the applicant’s credentials.

Admission to the master of science program does not automatically mean that a student will enter the doctoral program; a student completing the master’s degree must reapply through the Office of the Graduate School for admission to the doctoral program.

**Completion Requirements**
A doctoral student is required to complete 20 research/dissertation hours as part of the 60 required hours. The student must pass a written comprehensive exam prior to being admitted to candidacy. A dissertation committee, consisting of the student’s major professor and three other graduate faculty members, must be established. A dissertation defense before the committee is required.

The Doctor of Philosophy degree requirements include the following courses in the 60-hour program.

| EPY 8214 | Advanced Educational and Psychological Statistics |
| AIS 8703 | Evaluation of Agricultural Information Science and Education Programs |
| EPY 9213 | Advanced Analysis OR AIS 9583 Analysis of Data in Ag & Extension Education Research |
| HS 8833 | Foundations of Human Development and Family Studies |
| AIS 8523 | Teaching Out-of-School Groups in Agriculture Information Science and Education |
| HS 6843 | Family Interaction |
| HS 8853 | Current Issues in Human Development and Family Studies |
| HS 9000 | Research/Dissertation |

Focus areas (select 15 hours from 1 area)

**Infant & Child Focus**

| HS 8113 | Trends in Infant & Child Development* |
HS 6883  Risk, Resilience and Preventive Interventions
COE 8913  Counseling Children
EDE 9420  Research Practicum in Early Childhood Education
EPY 8293  Developmental Behavior
HS 6823  Development and Administrative of Child Service Programs
EDX 6423  Teaching the Disadvantaged Child
PSY 6713  Language & Thought
EDX 6353  Assistive Technology in Special Education

Youth Focus
HS 8313  Contemporary Youth Issues*
HS 6883  Risk, Resilience and Preventive Interventions
HS 6873  Positive Youth Development
SO 6233  Juvenile Delinquency
SO 6333  Sociology of Sports
AIS 6403  Development of Youth Programs

Family Focus
HS 8413  Issues in Family Studies*
HS 8423  Development of Intimate Relationships
COE 8303  Family Counseling Theory
HS 6313  Family Resource Management
HS 6333  Families, Legislation, and Public Policy
HS 6403  Introduction to Gerontology
HS 6803  Parenting
HS 6813  Adult Development: The Middle Years
HS 6853  The Family: A Human Ecological Perspective
HS 6883  Risk, Resilience, and Preventive Interventions
SO 6203  The Family in the United States
SO 6223  Comparative Family Systems

Family Resource Management Focus
HS 6313  Family Resource Management*
HS 6333  Families, Legislation, and Public Policy
HS 6863  Consumer Aspects of Aging
HS 6323  Consumer Issues and Policy
HS 6683  Current Housing Problems of Families

Family Resource Management Focus
HS 6313  Family Resource Management*
HS 6333  Families, Legislation, and Public Policy
HS 6863  Consumer Aspects of Aging
HS 6323  Consumer Issues and Policy
HS 6683  Current Housing Problems of Families

Gerontology Focus
HS 6403  Introduction to Gerontology*
PSY 6983  Psychology of Aging
HS 6863  Consumer Aspects of Aging
SO 6413  Aging and Retirement in American Society
COE 6713  Issues in Aging
COE 8813  Counseling Elderly Clients
FNH 8153  Wellness and Aging
SO 6433  Sociology of Death and Dying

*Required course within focus area.

Note: Courses may be substituted depending on student interest area and course availability. Major professor approval will be required in advance. At least one-half of the course work in the degree program exclusive of dissertation credits, must be at the 8000 level. No more than 6 semester hours of graduate credit may be earned in Directed Individual Study courses. Students may transfer up to 9 semester hours of courses from other accredited degree programs.

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 6403, HS 6813, and HS 6863. To secure additional information about graduate offerings in the School of Human Sciences, contact Dr. Tommy Phillips, Assistant Professor and Graduate Coordinator, by mail at PO Box 9745, Mississippi State, MS 39762-9745 or by e-mail at tphillips@humansci.msstate.edu.

Graduate Courses—Course prerequisites are noted in parentheses.

HS 6313  Family Resource Management (Junior/senior writing or consent of instructor). 3 hours
HS 6323  Consumer Issues and Policy (HS 3303 or consent of instructor). 3 hours
HS 6333  Families, Legislation and Public Policy (Junior/senior writing or consent of instructor). 3 hours
HS 6343  Apparel Design II (HS 1533 or consent of instructor). 3 hours
HS 6353  Nutrition throughout the Life Cycle. (BIO 4253/6253). 3 hours
HS 6403  Introduction to Gerontology (HS 1813 and junior/senior writing, or consent of instructor). 3 hours
HS 6424  Teaching Methods in Agricultural and Human Sciences. 4 hours
HS 6440  Workshop in Human Sciences. 1-3 hours
HS 6513  Social-Psychological Aspects of Clothing (3 hours sociology or 3 hours psychology). 3 hours
HS 6583  Entrepreneurship for Human Sciences. 3 hours
HS 6710  Study Tour. 1-3 hours
HS 6733  Computer-Aided Design. 3 hours
HS 6803  Parenting (HS 1813 and junior/senior writing class, or consent of instructor). 3 hours
HS 6813  Adult Development: The Middle Years (HS 1813 and consent of instructor). 3 hours
HS 6823  Development and Administration of Child Service Programs. 3 hours
Graduate study leading to a Master of Landscape Architecture degree is offered in the Department of Landscape Architecture; thesis and non-thesis options are available. Students in the program have the opportunity to work with faculty on a wide range of research and design topics within the profession of landscape architecture. Special program emphasis is placed on watershed planning, landscape management, and community planning and design. The design studio courses broadly consider landscape issues related to water, health, and habitat in an effort to achieve the department’s mission of “…fostering the will and ability to plan, design, build and manage regenerative communities.”

**Admission**
The applicant to the M.L.A. program should have a minimum GPA of 2.80 on a 4.00 scale. A student without a bachelor’s degree in landscape architecture from an accredited program may undertake the M.L.A. as a first professional degree but is required to undertake additional “leveling” coursework to ensure competency in the field; this typically requires an additional year of study. Submission of Graduate Record Examination (GRE) scores is required. The applicant’s submission should include a letter of interest that includes a written statement (no more than 1500 words) explaining 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 detailed résumé. Applicants with degrees from allied fields (such as architecture or civil engineering) should submit a portfolio if they wish to be considered for course reductions during the leveling year. Contact the department’s graduate coordinator for more information.

**Program of Study**
Thesis and non-thesis options are available. All students in the program must take the “Core Courses” listed below.

**Core Courses**—Courses required of all students in the program include:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 6113</td>
<td>Design Theory and Criticism</td>
<td>3</td>
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<tr>
<td>LA 8513</td>
<td>Landscape Architecture Graduate Studio I</td>
<td>1.5</td>
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<tr>
<td>LA 8711</td>
<td>Seminar in Watershed Planning and Management</td>
<td>1</td>
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<tr>
<td>LA 8523</td>
<td>Landscape Architecture Graduate Studio II</td>
<td>3.5</td>
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<td>LA 8721</td>
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<td>LA 8533</td>
<td>Landscape Architecture Graduate Studio III</td>
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</tr>
<tr>
<td>LA 8731</td>
<td>Seminar in Community Based Planning</td>
<td>1</td>
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<tr>
<td>LA 8741</td>
<td>Proposal Writing Seminar</td>
<td>1</td>
</tr>
<tr>
<td>LA 8751</td>
<td>Seminar in Contemporary Design Issues</td>
<td>1</td>
</tr>
<tr>
<td>LA 8613</td>
<td>Research Methods in Landscape Architecture</td>
<td>3</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
Elective Approved graduate-level elective. 3 hours

**Thesis Option (33 hours):**
In addition to the core courses listed above, student must complete the following:
LA 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree

And one of the following courses:
ST 8114 Statistical Methods. 4 hours
SO 8274 Social Statistics. 4 hours

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.

**Non-Thesis Option (39 hours):**
In addition to the core courses listed above, students must complete the following:
LA 6124 Landscape Architecture Construction V: Construction Documents. 4 hours
LA 6443 Exterior Design/Build Studio. 3 hours
LA 8514 Ecological Planting Design. 4 hours
LA 8545 Landscape Architecture Graduate Studio IV: Case Study Research. 5 hours

Non-thesis students must have a signed proposal prior to entering LA 8545 Graduate Studio IV: Case Study Research. The proposal must include the course instructor and one additional graduate faculty member from the department who will serve as an advisor.

**PLANT AND SOIL SCIENCES**
**Dr. J. Mike Phillips, Department Head**
**Dr. Michael Cox, Graduate Coordinator**
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Mississippi State, MS 39762
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E-mail: mcox@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.

Highly qualified undergraduates at Mississippi State University are encouraged to consider applying to the combined B.S./M.S. degree program. This program permits concurrent enrollment in the Agronomy or Horticulture B.S. and the Agronomy, Horticulture, or Weed Science M.S. degree programs during the student’s final year of undergraduate studies with enrollment in up to nine hours of graduate courses for which undergraduate credit is also awarded. Students need to consult with a potential graduate advisor 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 junior year (i.e., after completion of 90 or more hours of graded undergraduate courses). This option is only available for students pursuing a thesis-based Master of Science degree in Agriculture with a concentration in Agronomy, Horticulture, or Weed Science.

**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—
  <br>  **Agronomy:** TOEFL score of 500 PBT (173 CBT; 61 iBT) or IELTS score of 5.5
Graduate School requesting such permission: must submit a completed form to the Office of credit (i.e., 6000-level or higher). To do so, he/she the student should take the courses for graduate level (i.e., 4000-6000 level) or 8000 level classes, and graduate requirements. These courses may be split-to 9 hours that will satisfy both undergraduate and program, the student and the advisor may select up Once the student is accepted into the combined program, the MSU Graduate Council has established these guidelines in cooperation office:

Requirements for entrance into the combined B.S./M.S. program in Agronomy, Horticulture, or Weed Science are:
1. a GPA of 3.50 or higher for all undergraduate work;
2. submission of a standard application for graduate studies in the Department of Plant and Soil 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.

For students enrolled in a combined B.S./M.S. program, the MSU Graduate Council has established these guidelines in cooperation with the Registrar’s Office:

Once the student is accepted into the combined program, the student and the advisor may select up to 9 hours that will satisfy both undergraduate and graduate requirements. These courses may be split-level (i.e., 4000-6000 level) or 8000 level classes, and the student should take the courses for graduate credit (i.e., 6000-level or higher). To do so, he/she must submit a completed form to the Office of the Graduate School requesting such permission: http://www.grad.msstate.edu/forms/pdf_forms/undergraduate_request_to_enroll_in_graduate_course.pdf. The OGS will notify the student by MSU email when the request is approved. The combination of undergraduate and graduate credit hours may not exceed 16 hours within a semester. After successfully completing the graduate-level classes, the student and undergraduate advisor will submit a request to the Registrar’s Office to grant credit for the course also at the undergraduate level with the same grade awarded as received for the graduate course. In the case of a split-level class, the transcript will show credit for both the 4000- and 6000-level on the transcript. In the case of an 8000-level class, a special topics 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 could complete only the undergraduate portion of the program. No additional dual counting of the courses would occur after the student leaves the combined program.

Students will receive the bachelor’s degree once the requirements for that 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 the traditional B.S. and M.S. programs. Students will be classified as undergraduates until they fulfill all of the requirements for the undergraduate degree. At that time they will be classified as graduate students and will be subject to the guidelines pertaining to the M.S. degree. Students admitted to this program should read and understand the guidelines in the Department of Plant and Soil Sciences Graduate Student Handbook before registering for any courses for graduate credit.

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.

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.

Ph.D. 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
PSS 6133 Fiber and Oilseed Crops. 3 hours
PSS 6414 Turf Management. 4 hours
PSS 6423 Golf Course Operations (PSS 6414). 3 hours
PSS 6443 Athletic Field Management (PSS 3303, PSS 4414, or consent of instructor). 3 hours
PSS 6444 Plant Tissue Culture (BIO 4214/6214 or equivalent). 4 hours
PSS 6483 Introduction to Remote Sensing Technologies. 3 hours
PSS 6503 Plant Breeding (PO 3103 or equivalent). 3 hours
PSS 6823 Turfgrass Weed Management. 3 hours
PSS 6990 Special Topics in PSS. 1-9 hours
PSS 7000 Directed Individual Study. 1-6 hours
PSS 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
PSS 8103 Pasture Development. 3 hours

PSS 8123 Crop Ecology (BIO 4213/6214 or permission of instructor). 3 hours
PSS 8163 Environmental Plant Physiology. 3 hours
PSS 8513 Advanced Plant Breeding (PSS 4503/6503 or equivalent) [Same as GNS 8113]. 3 hours
PSS 8543 Biometrical Genetics in Plant Breeding (PSS 4503/6503 and ST 8114) [Same as GNS 8144]. 3 hours
PSS 8623 Genomes and Genomics (BCH 4113/6113 or BCH 4713/6713 or BCH 8643 or consent of instructor) [Same as BCH 8623]. 3 hours
PSS 8631 Topics in Genomics (BSS/BCH 8623 or BCH 4713/6713 or BCH 8643 or consent of instructor) [Same as BCH 8613]. 1 hour
PSS 8811-8831 Seminar. 1-3 hours
PSS 8990 Special Topics in PSS. 1-9 hours
PSS 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

Soils:
PSS 6313 Soil Fertility and Fertilizers (PSS 3303 and junior standing). 3 hours
PSS 6314 Microbiology and Ecology of Soil (BIO 3304) [Same as BIO 4324/6324]. 4 hours
PSS 6323 Soil Classification (PSS 3303). 3 hours
PSS 6333 Soil Conservation and Land Use (PSS 3303). 3 hours
PSS 6373 Geospatial Agronomic Management (PSS 3303 and PSS 3133). 3 hours
PSS 6603 Soil Chemistry (PSS 3303). 3 hours
PSS 7000 Directed Individual Study. 1-6 hours
PSS 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
PSS 8314 Clay Mineralogy. 4 hours
PSS 8333 Advanced Soil Fertility. 3 hours
PSS 8343 Soil Plant Atmosphere Relationships (PSS 3301/3303 or consent of instructor). 3 hours
PSS 8990 Special Topics in PSS. 1-9 hours
PSS 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

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.

Prerequisite and Core Courses—As stipulated by the major professor, the departmental graduate coordinator, and the dean.
- M.S. specific requirements—Statistics (ST 8114) and Seminar (PSS 8811)
- Ph.D. specific course requirements—Biochemistry (BCH 6603), 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.

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.

Graduate Courses—Courses prerequisites are noted in parentheses.
- PSS 6043 International Horticulture (PSS 1313). 3 hours
- PSS 6143 Advanced Fruit Sciences (PSS 3043 or equivalent). 3 hours
- PSS 6341 Controlled Environment Agriculture Laboratory (Co-requisite: PSS 4343 for horticulture majors). 1 hour
- PSS 6343 Controlled Environment Agriculture (BIO 2113 and PSS 3303; co-requisite for horticulture majors: PSS 4341). 3 hours
- PSS 6353 Arboriculture and Landscape Maintenance. 3 hours
- PSS 6363 Sustainable Nursery Production (PSS 2423 and PSS 3303). 3 hours
- PSS 6444 Plant Tissue Culture (BIO 1203 or equivalent and BIO 4214/6214). 4 hours
- PSS 6453 Vegetable Production (PSS 3303, PSS 3301 and BIO 4204). 3 hours
- PSS 6503 Plant Breeding (PO 3103) [Same as PSS 4503]. 3 hours
- PSS 6553 Plant Growth and Development. 3 hours
- PSS 6613 Floriculture Crop Programming (PSS 4343/6343). 3 hours
- PSS 6833 Temperature Stress Physiology (BIO 4214/6214 or BCH 4013/6013). 3 hours
- PSS 6990 Special Topics in PSS. 1-9 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 8513 Advanced Plant Breeding (PSS 4503/6503) [Same as GNS 8113]. 3 hours
- PSS 8553 Phytohormones and Growth Regulation (BIO 4214/6214 and CH 2503). 3 hours
- PSS 8554 Plant Genetic Engineering (PSS 6444 and BCH 6713). 4 hours
- PSS 8563 Post Harvest Physiology of Horticultural Plants (Organic Chemistry and BIO 4214/6214 or equivalent). 3 hours
- PSS 8573 Morphology of Horticultural Plants (BIO 4204/6204). 3 hours
- PSS 8613 Methods of Horticultural Research. 3 hours
- PSS 8623 Genomes and Genomics (BCH 4113/6113 or BCH 4713/6713 or BCH 8643 or consent of instructor) [Same as BCH 8623]. 3 hours
- PSS 8631 Topics in Genomics (PSS/BCH 8623 or BCH 4713/6713 or BCH 8643 or consent of instructor) [Same as BCH 8613]. 1 hour
- PSS 8811-8831 Seminar. 1-3 hours
- PSS 8990 Special Topics in PSS. 1-9 hours
- PSS 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

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.

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.

**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.

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

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

**POULTRY SCIENCE**

**Dr. Mary M. Beck,** 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

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.

**Master of Science**  
**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
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. For 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
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.

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. The limited teaching capacity shall be determined by the student's graduate committee when the student's program of study is established.

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 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. The 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.

Information—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>
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<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 6514</td>
<td>Poultry Processing (Same as FNH 4514/6514)</td>
<td>4</td>
</tr>
<tr>
<td>PO 6833</td>
<td>Avian Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>PO 6844</td>
<td>Avian Anatomy and Physiology (Same as PHY 6844)</td>
<td>4</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>
The School of Architecture, at present, only offers a Certificate Program in Public Design through the Gulf Coast Community Design Studio in Biloxi, MS.

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.
# COLLEGE OF ARTS AND SCIENCES

Dr. Greg Dunaway, Dean  
Dr. Walter Diehl, Associate Dean for Research & Graduate Studies  
Dr. Rick Travis, 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/](http://www.cas.msstate.edu/)  
E-mail: simone@deanas.msstate.edu

## DEGREE AND CERTIFICATE PROGRAMS

(T=thesis; NT=non-thesis)  
[Offered: 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: Biological Sciences (T) [1]  
**Master of Science**  
Major: General Biology (NT) [5]  
**Doctor of Philosophy**  
Major: Biological Sciences [1]

### DEPARTMENT OF CHEMISTRY

**Master of Science**  
Major: Chemistry (T) [1]  
**Doctor of Philosophy**  
Major: Chemistry [1]

### DEPARTMENT OF CLASSICAL & MODERN LANGUAGES AND LITERATURES

**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; Concentrations in Broadcast Meteorology (NT) [1]; Professional Meteorology (T) [1]; Geology (T) [1]; Geography (T) [1]; Geospatial Sciences (T) [1]; Environmental Geosciences (T) [1]; Teachers in Geosciences (NT) [5]; Applied Meteorology (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]  
The **Doctor of Philosophy** in Engineering with a concentration in Applied Physics is awarded through the Bagley College of Engineering.
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]

DEPARTMENT OF PSYCHOLOGY

Master of Science
Major: Psychology (T) [1]

Doctor of Philosophy
Major: Cognitive Science [1]

DEPARTMENT OF SOCIOLOGY

Master of Science
Major: Sociology (T; NT) [1]

Doctor of Philosophy
Major: Sociology [1]

Gender Studies Graduate Certificate

ANTHROPOLOGY AND MIDDLE EASTERN CULTURES

Dr. Michael Galaty, 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 or AN 3540) 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; and forensics. The area emphases are the Southeastern U.S. and Mediterranean Basin, 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/](http://www.amec.msstate.edu/), or telephone 662-325-2305.

**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 [Same as EN 4403/6403]. 3 hours
- AN 6523 Public Archaeology. 3 hours
- AN 6623 Language and Culture [Same as EN 4623/6623 and SO 4623/6623]. 3 hours
- AN 6633 Language and Society [Same as EN 4633/6633 and SO 4633/6633]. 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
Dr. Donna Gordon, General Biology Coordinator
219 Harned Hall, 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 (GBIO) 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.

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. submission of scores from the Graduate Record Examination (GRE) General Test;
4. 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.

**Master of Science in Biological Sciences**

**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.

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**Doctor of Philosophy**

**Program of Study/Completion Requirements**

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.

**Combined B.S./M.S. Program**

**Program of Study/Completion Requirements**

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 should 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.

Master of Science in General Biology
Program of Study/Completion Requirements
Requirements for the Master of Science in General Biology (GBIO) 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>
</tr>
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<tr>
<td>BIO 6113</td>
<td>Evolutionary Biology (MA 1313 or equivalent, BIO 1134 and BIO 1144, BIO 3103 or BIO 4133). 3 hours</td>
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<tr>
<td>BIO 6114</td>
<td>Cellular Physiology (7 hours of biological sciences and two semesters of organic chemistry) [Same as PHY 4114/6114]. 4 hours</td>
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<tr>
<td>BIO 6133</td>
<td>Human Genetics (BIO 1134, and BIO 1144 or BIO 2113 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>BIO 6143</td>
<td>Population Genetics (BIO 1134 and BIO 1144, or BIO 2113, or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>BIO 6203</td>
<td>Taxonomy of Spermatophytes (BIO 2113 and BIO 2213). 3 hours</td>
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<tr>
<td>BIO 6204</td>
<td>Plant Anatomy (BIO 2113 and BIO 2213). 4 hours</td>
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<tr>
<td>BIO 6213</td>
<td>Plant Ecology. 3 hours</td>
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<tr>
<td>BIO 6214</td>
<td>General Plant Physiology (BIO 2113 and CH 1213). 4 hours</td>
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<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). 3 hours</td>
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<tr>
<td>BIO 6233</td>
<td>Living with Global Change. 3 hours</td>
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<td>BIO 6303</td>
<td>Bioinstrumentation (BIO4304/6304). 3 hours</td>
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<td>BIO 6304</td>
<td>Quantitative Methods. 4 hours</td>
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<td>BIO 6314</td>
<td>Quantitative Methods II (BIO 4304/6304). 4 hours</td>
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<tr>
<td>BIO 6324</td>
<td>Microbiology and Ecology of Soil (BIO 3304) [Same as PSS 4314/6314]. 4 hours</td>
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<tr>
<td>BIO 6404</td>
<td>Environmental Microbiology (BIO 3304). 4 hours</td>
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<tr>
<td>BIO 6405</td>
<td>Pathogenic Microbiology (BIO 3304). 5 hours</td>
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<tr>
<td>BIO 6413</td>
<td>Immunology (BIO 3304 and CH 4513). 3 hours</td>
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<tr>
<td>BIO 6414</td>
<td>Microbiology of Foods (BIO 3304). 4 hours</td>
</tr>
<tr>
<td>BIO 6433</td>
<td>Principles of Virology (BCH 4603 and BIO 3103 or equivalents). 3 hours</td>
</tr>
<tr>
<td>BIO 6442</td>
<td>Bacterial Genetics Lab (BCH 4603, BIO 3304 and concurrent enrollment in BIO 4443/6443). 2 hours</td>
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<tr>
<td>BIO 6443</td>
<td>Bacterial Genetics (BCH 4603, BIO 3304 or consent of instructor). 3 hours</td>
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<tr>
<td>BIO 6463</td>
<td>Bacterial Physiology (BIO 3404 and BCH 4603). 3 hours</td>
</tr>
<tr>
<td>BIO 6473</td>
<td>Medical Virology (BIO 3304). 3 hours</td>
</tr>
<tr>
<td>BIO 6503</td>
<td>Vertebrate Histology (BIO 1134 and BIO 1144). 3 hours</td>
</tr>
<tr>
<td>BIO 6504</td>
<td>Comparative Vertebrate Embryology (BIO 1134 and BIO 1144). 4 hours</td>
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<tr>
<td>BIO 6514</td>
<td>Animal Physiology (10 hours of zoology and organic chemistry). 4 hours</td>
</tr>
<tr>
<td>BIO 6603</td>
<td>Ethnobotany (BIO 1134 and BIO 1144 or AN 1143 and AN 1343). 3 hours</td>
</tr>
<tr>
<td>BIO 6673</td>
<td>Industrial Microbiology. 3 hours</td>
</tr>
<tr>
<td>BIO 6990</td>
<td>Special Topics in Biology. 1-9 hours</td>
</tr>
<tr>
<td>BIO 7000</td>
<td>Directed Individual Study. (BIO 4326/6326). Hours to be arranged.</td>
</tr>
<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. 3 hours</td>
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<tr>
<td>BIO 8021</td>
<td>Seminar II. 1 hour</td>
</tr>
<tr>
<td>BIO 8103</td>
<td>Advanced Ecology (BIO 3104). 3 hours</td>
</tr>
<tr>
<td>BIO 8113</td>
<td>Biogeography. 3 hours</td>
</tr>
<tr>
<td>BIO 8123</td>
<td>Physiological Ecology (One semester of physiology or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>BIO 8163</td>
<td>Invasion Ecology. 3 hours</td>
</tr>
<tr>
<td>BIO 8213</td>
<td>Plant Water and Mineral Relations (BIO 4214). 3 hours</td>
</tr>
<tr>
<td>BIO 8223</td>
<td>Plant Metabolism (BIO 4214 and organic chemistry). 3 hours</td>
</tr>
<tr>
<td>BIO 8233</td>
<td>Molecular Applications. 3 hours</td>
</tr>
<tr>
<td>BIO 8453</td>
<td>Advanced Virology (Cell Biology or equivalent). 3 hours</td>
</tr>
<tr>
<td>BIO 8990</td>
<td>Special Topics in Biology. 1-9 hours</td>
</tr>
<tr>
<td>BIO 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
</tr>
</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. Course prerequisites are noted in parentheses.

BIO 6013 Genetics & Molecular Biology (Consent of instructor). 3 hours
BIO 6023 Principles of Evolutionary Biology (Consent of instructor). 3 hours
BIO 6033 Fundamentals of Biotechnology (BIO 6013 and BIO 8033, or consent of instructor). 3 hours
BIO 6043 Developmental & Reproductive Biology (BIO 6013 and BIO 8033 or consent of instructor). 3 hours
BIO 6703 Avian Diversity and Evolution (BIO 1134 and BIO 1144, or permission of instructor). 3 hours
BIO 8023 Modern Microbiology (Consent of instructor). 3 hours
BIO 8033 Advanced Cell Biology (Consent of instructor). 3 hours
BIO 8043 Ecology & the Environment (Consent of instructor). 3 hours
BIO 8053 Comprehensive Study of Animals (BIO 6023 or consent of instructor). 3 hours
BIO 8063 Comprehensive Study of Plants (BIO 6023 or consent of instructor). 3 hours
BIO 8093 Experimental Biology & Biostatistics (Consent of instructor). 3 hours
BIO 8183 Capstone in Modern Biology (30 hours of BIO graduate work and consent of instructor). 3 hours
BIO 8191 Seminar in General Biology (33 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). 1 hour

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.chemistry.msstate.edu.

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.

**Master of Science**

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).

**Doctor of Philosophy**

Program of Study/Completion Requirements

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>
<thead>
<tr>
<th>Analytical</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>CH 8313  Advanced Analytical</td>
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</tr>
<tr>
<td>CH 8333  Advanced Instrumental</td>
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</tr>
<tr>
<td>CH 8990 Special topic: Chemical Separations</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Organic</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 8553  Theoretical Organic</td>
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</table>

<table>
<thead>
<tr>
<th>Inorganic</th>
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<tbody>
<tr>
<td>CH 8203 Advanced Inorganic Chemistry II</td>
<td></td>
</tr>
<tr>
<td>CH 8990 Special topic: Organometallic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 8990 Special topic: Inorganic Structures and Properties</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 8423  Molecular Structure</td>
<td></td>
</tr>
<tr>
<td>CH 8623  Physical Biochemistry</td>
<td></td>
</tr>
</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 4353/6353). 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 |
| CH 8111 Professional Chemistry. 1 hour |
| CH 8771-8741 Seminar. 1-4 hours |
| CH 8990 Special Topics in Chemistry. 1-9 hours |
| CH 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree |
Analytical Chemistry:
CH 8313 Advanced Analytical Chemistry (Consent of instructor). 3 hours
CH 8333 Advanced Instrumental Analysis (CH 4353/6353 or consent of instructor). 3 hours
CH 8343 Electroanalytical Chemistry (Consent of instructor). 3 hours

Biochemistry:
Any course numbered 6000 or above as offered by the Department of Biochemistry and Molecular Biology is accepted for major credit.

Inorganic Chemistry:
CH 8203 Advanced Inorganic Chemistry II (CH 4213/6213, and CH 4423/6423). 3 hours

Organic Chemistry:
FP 8123 Advanced Lignocellulosic Chemistry. 3 hours
CH 8213 Organometallic Chemistry. 3 hours
CH 8513 Synthetic Organic Chemistry. 3 hours
CH 8553 Theoretical Organic Chemistry. 3 hours

Physical Chemistry:
CH 8423 Molecular Structure (CH 4423/6423 and MA 2913). 3 hours
CH 8473 Quantum Chemistry I. (PH 4723, MA 3353, MA 4153). 3 hours

Chemical Physics:
Any course numbered 6000 or above as offered by the Department of Physics is accepted for major credit.

Classical & Modern Languages and Literatures
Dr. Jack Jordan, Department Head
Dr. Edward Potter, Graduate Coordinator
122 Howell 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 Classical & Modern Languages and Literatures 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 Classical & Modern Languages and Literatures. 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.

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.

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.

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 graduate coordinator of the Department of Classical and Modern Languages and Literatures, Box FL, Mississippi State, MS 39762 or fax 662-325-8209.

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

<table>
<thead>
<tr>
<th>French:</th>
<th>German:</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLF 6053  <strong>19th Century Studies: Baudelaire Seminar</strong> (FLF 3124 or consent of instructor). 3 hours</td>
<td>FLG 6143  Verwandlungen (FLG 2143 or equivalent). 3 hours</td>
</tr>
<tr>
<td>FLF 6073  French Drama of the 20th Century (FLF 3523 or consent of instructor). 3 hours</td>
<td>FLG 6163  History of the German Language (FLG 3124). 3 hours</td>
</tr>
<tr>
<td>FLF 6083  Survey of French Lyric Poetry (FLF 3513 or consent of instructor). 3 hours</td>
<td>FLG 6303  German Film (FLG 2143 or equivalent). 3 hours</td>
</tr>
<tr>
<td>FLF 6093  French Novel and Short Story of the 19th Century (FLF 3523 or consent of instructor). 3 hours</td>
<td>FLG 6353  German Novella (FLG 2143 or equivalent). 3 hours</td>
</tr>
<tr>
<td>FLF 6103  French Novel and Short Story of the 20th Century (FLF 3523 or consent of instructor). 3 hours</td>
<td>FLG 6463  German Drama of the 20th Century (FLG 3523). 3 hours</td>
</tr>
<tr>
<td>FLF 6143  17th-Century French Literature (FLF 3513). 3 hours</td>
<td>FLG 6493  Mysteries in Literature &amp; Film (FLG 2143 or equivalent). 3 hours</td>
</tr>
<tr>
<td>FLF 6153  French Classicism (FLF 3513 or consent of instructor). 3 hours</td>
<td>FLG 6503  German Literature to 1750 (FLG 2143 or equivalent). 3 hours</td>
</tr>
<tr>
<td>FLF 6173  Introduction to Francophone Cinema (FLF 3124 or consent of instructor). 3 hours</td>
<td>FLG 6523  German Literature 1750 to Present (FLG 2143 or equivalent). 3 hours</td>
</tr>
<tr>
<td>FLF 6193  18th Century French Literature (FLF 2143 or equivalent). 3 hours</td>
<td>FLG 6990  Special Topics in German. 1-9 hours</td>
</tr>
<tr>
<td>FLF 6213  Historical Grammar (FLF 3114 and FLF 3124 or consent of instructor). 3 hours</td>
<td>FLG 7000  Directed Individual Study. 1-6 hours</td>
</tr>
<tr>
<td>FLF 6223  French Novel Before 1945 (FLF 2143 or the equivalent). 3 hours</td>
<td>FLG 8000  Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
</tr>
<tr>
<td>FLF 6233  Modern French Poetry (FLF 2143 or the equivalent). 3 hours</td>
<td>FLG 8443  18th Century German Drama (Graduate standing). 3 hours</td>
</tr>
<tr>
<td>FLF 6273  The Human Condition (FLF 2143 or the equivalent). 3 hours</td>
<td>FLG 8483  20th Century Short Story (Graduate standing). 3 hours</td>
</tr>
<tr>
<td>FLF 6323  Studies in the 20th Century: Le Clézio Seminar (FLF 2143 or the equivalent). 3 hours</td>
<td>FLG 8990  Special Topics in German. 1-9 hours</td>
</tr>
<tr>
<td>FLF 6333  19th Century Studies: Decadents, Dandies, and Bohemians (FLF 3124 or consent of instructor). 3 hours</td>
<td>Greek:</td>
</tr>
<tr>
<td>FLF 6990  Special Topics in French. 1-9 hours</td>
<td>FLH 6990  Special Topics in Greek. 1-9 hours</td>
</tr>
<tr>
<td>FLF 7000  Directed Individual Study. 1-6 hours</td>
<td>FLH 7000  Directed Individual Study. 1-6 hours</td>
</tr>
<tr>
<td>FLF 8000  Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
<td>FLH 8990  Special Topics in Greek. 1-9 hours</td>
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</table>
Japanese:
FLJ 6990. Special Topics in Japanese. 1-9 hours
FLJ 8990 Special Topics in Japanese. 1-9 hours

Latin:
FLL 6990 Special Topics in Latin. 1-9 hours
FLL 7000 Directed Individual Study. 1-6 hours
FLL 8990 Special Topics in Latin. 1-9 hours

Russian:
FLR 6990 Special Topics in Russian. 1-9 hours
FLR 8990 Special Topics in Russian. 1-9 hours

Spanish:
FLS 6213 Modern Spanish Women Writers (FLS 3113, FLS 3223 or equivalent, or consent of instructor). 3 hours
FLS 6223 Spanish Novel of the Golden Age (FLS 3513). 3 hours
FLS 6243 Modern Spanish Essay (FLS 3113, 3233 or the equivalent, or consent of instructor). 3 hours
FLS 6273 Modern Spanish Drama (FLS 3113, 3233 or the equivalent, or consent of instructor). 3 hours
FLS 6283 The Contemporary Spanish-American Novel and Short Story (FLS 3523 or consent of instructor). 3 hours
FLS 6293 Cinema in Spanish Culture (FLS 3113, FLS 3223 or equivalent, or consent of instructor). 3 hours
FLS 6323 Spanish Drama of the Golden Age (FLS 3513 or consent of instructor). 3 hours
FLS 6543 Survey of Spanish-American Literature (FLS 3223 or consent of instructor). 3 hours
FLS 6633 Introduction to Spanish Linguistics (FLS 3223 or consent of instructor). 3 hours
FLS 6643 Spanish Phonology (FLS 3233 or consent of instructor). 3 hours
FLS 6653 History of the Spanish Language (FLS 3513 or consent of instructor). 3 hours
FLS 6990 Special Topics in Spanish. 1-9 hours
FLS 7000 Directed Individual Study. 1-6 hours
FLS 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
FLS 8223 Seminar in the Picaresque Novel. 3 hours
FLS 8263 Seminar in the Novel of the 20th Century. 3 hours
FLS 8283 The Contemporary Spanish-American Novel and Short Story. 3 hours
FLS 8990 Special Topics in Spanish. 1-9 hours

Special Graduate Courses:
FL 6023 Introduction to Literary Criticism. 3 hours
FL 6143 Classical Mythology [Same as REL 4143/6143]. 3 hours
FL 6990 Special Topics in Foreign Language. 1-9 hours
FL 8113 Capstone Seminar, 3 hours

FL 8990 Special Topics in Foreign Language. 1-9 hours

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. Currently there is no graduate program in Communication. For additional information, contact the Department of Communication at 662-325-3320, jforde@comm.msstate.edu, or PO Box PF, Mississippi State, MS 39762.

Graduate Courses—Course prerequisites are noted in parentheses.
CO 6203 Nonverbal Communication. 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 6403 Journalism Ethics (CO 2413). 3 hours
CO 6433 Television Criticism. 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 6990 Special Topics in Communication. 1-9 hours
CO 7000 Directed Individual Study. 1-6 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
- 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.

Unsatisfactory Performance
Unsatisfactory performance in the graduate program in English may be defined as any of the following: failure to maintain a B average in attempted graduate courses after admission to the program, a grade of U or F in any one course, failure of the comprehensive examination, unsatisfactory evaluation of a thesis, or failure of a required component of the program of study. Any one of these or a combination of these may constitute the basis for review for possible dismissal. The graduate coordinator will review the record along with the student’s graduate committee and take a final course of action which will be immediate dismissal or the establishment of a probationary period in which corrective action must take place. Appeal of dismissal can be made by submitting a written appeal statement to the department head. If the dismissal is upheld by the department head upon the student’s appeal, the student can then submit a written appeal to the dean of the College of Arts & Sciences.

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. Degree-seeking students will be awarded their
certificates at the time that they complete their degrees.

Additionally, the program is open to members of the following groups who hold a B.A./B.S. 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

Non-degree seeking students will be awarded their certificates immediately upon completing the certificate requirements.

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 6393 Postcolonial Literature and Theory (Completion of English requirements in student’s major) (Same as AAS 4393). 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 Approaches to TESOL. 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 Society (Same as AN 4623/6263 and SO 4623/6263). 3 hours
- EN 6633 Language and Society (Same as AN 4633/6633 and SO 4633/6633). 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

GEOSCIENCES
Dr. William Cooke, Interim Department Head
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Telephone: 662-325-3915
On-Campus Programs
Email: tina@geosci.msstate.edu
Distance Learning Programs
E-mail: mary@geosci.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 required that applicants to the doctoral program will have completed a thesis-based master’s degree and have a background in one of the departmental emphasis areas. All applicants for the Doctoral program must identify a mentor (dissertation supervisor) prior to acceptance into the program. Applicants who have not completed a thesis or are from other science disciplines will be considered on a case-by-case basis through a petition, initiated by the identified mentor, to the department’s graduate faculty. The doctoral degree student should anticipate a four-year program of study. 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 January 1.

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 8913 Research, Readings, and Techniques in Geosciences
- GR 8913 Philosophy and Ethics in Geosciences

**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, the Geospatial Sciences concentration and/or Teachers in Geosciences or Applied Meteorology in the distance-learning concentrations) requires at least 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, the distance-learning 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**
The Department of Geosciences follows the Graduate School guidelines regarding academic dismissal from an academic program. Additionally, a grade of U given for thesis or dissertation research hours or a grade of D or F for any regular class will result in dismissal from the program. A student in the Broadcast Meteorology concentration who earns a C 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.*

**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.*
GG 8713 Regional Geology of Eastern North America

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
GR 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
GG 8233 Environmental Geosciences
GG 8613 Hydrology
GR 8400 Field Methods in Geosciences (up to 6 credits may count toward the degree)

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 (online)
GG 6113 Geology I: Processes and Products (Consent of instructor). 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 Paleoclimatology (GG 1123 or equivalent or consent of instructor). 3 hours
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>GG 6153</td>
<td>Engineering Geology (GG 1113 or equivalent). 3 hours</td>
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<tr>
<td>GG 6201</td>
<td>Practicum in Paleontology (GG 1123 or equivalent). 1 hour</td>
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<td>GG 6203</td>
<td>Principles of Paleobiology (GG 1123 or equivalent). 3 hours</td>
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<td>GG 6233</td>
<td>Applied Geophysics (Consent of instructor). 3 hours</td>
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<td>GG 6304</td>
<td>Principles of Sedimentary Deposits (GG 4114/6114 or consent of instructor). 4 hours</td>
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<td>GG 6333</td>
<td>Geowriting. 3 hours</td>
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<td>GG 6403</td>
<td>Gulf Coast Stratigraphy (GG 4304/6304 or consent of instructor). 3 hours</td>
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<td>GG 6413</td>
<td>Structural Geology (GG 4123/6123 or consent of instructor). 3 hours</td>
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<td>GG 6433</td>
<td>Subsurface Methods (GG 4304/6304 or equivalent). 3 hours</td>
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<td>GG 6443</td>
<td>Principles of Sedimentary Deposits II (GG 4304/6304 or equivalent). 3 hours</td>
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<td>Geomorphology (Consent of instructor). 3 hours</td>
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<td>GG 6523</td>
<td>Coastal Environments (GG 1113, GR 1114 or consent of instructor). 3 hours</td>
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<td>GG 6613</td>
<td>Physical Hydrogeology (GG 3613 or consent of instructor). 3 hours</td>
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<td>GG 6623</td>
<td>Chemical Hydrogeology (CE 3523, CE 8563, or GG 4613/6613 or consent of instructor). 3 hours</td>
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<td>GG 6990</td>
<td>Special Topics in Geology. 1-9 hours</td>
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<td>GG 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<td>GG 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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<tr>
<td>GG 8123</td>
<td>Geology II: Earth, Time, and Life (GG 6113 or consent of instructor). 3 hours</td>
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<td>GG 8133</td>
<td>Rocks and Minerals (Consent of instructor. 3 hours video and online</td>
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<td>GG 8164</td>
<td>Earth Sciences I (Consent of department head). 4 hours</td>
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<td>GG 8203</td>
<td>Ocean Science (GG 6113 or consent of instructor). 3 hours (online)</td>
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<td>GG 8223</td>
<td>Advanced Paleontology (GG 4203/6203 or equivalent). 3 hours</td>
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<td>Environmental Geoscience (GG 6113 or consent of instructor). 3 hours (online)</td>
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<td>History of Life (Consent of instructor). 3 hours video and online</td>
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<td>GG 8333</td>
<td>Planetary Science (GG 6113 or consent of instructor). 3 hours (online)</td>
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<td>GG 8423</td>
<td>Earthquakes and Volcanoes (Consent of instructor). 3 hours video and online</td>
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<td>GG 8443</td>
<td>Advanced Structural Geology (Major in geology including GG 4413/6613 or equivalent). 3 hours</td>
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<td>GG 8561</td>
<td>Geoscience Seminar. 1 hour</td>
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<td>Geologic Literature (Major in geology). 2 hours</td>
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<td>GG 8613</td>
<td>Hydrology (GG 6113 or consent of instructor). 3 hours (online)</td>
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<td>GG 8713</td>
<td>Regional Geology of Eastern North America (Major in geology). 3 hours</td>
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<td>Regional Geology of Western North America (Major in geology). 3 hours</td>
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<td>Research, Readings, and Techniques in Geosciences (Consent of instructor). 3 hours</td>
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<td>Special Topics in Geology. 1-9 hours</td>
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<td>GR 6103</td>
<td>Geography of Tourism (GR 1123 or equivalent). 3 hours</td>
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<td>GR 6113</td>
<td>Meteorology I: Observations. 3 hours</td>
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<td>GR 6123</td>
<td>Urban Geography. 3 hours</td>
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<td>GR 6203</td>
<td>Geography of North America. 3 hours</td>
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<td>GR 6283</td>
<td>Geography of Islamic World. 3 hours</td>
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<td>GR 6303</td>
<td>Principles of GIS (Consent of instructor). 3 hours</td>
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<td>GR 6313</td>
<td>Advanced GIS (GR 4303/6303 or consent of instructor). 3 hours</td>
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<td>GR 6323</td>
<td>Cartographic Sciences (Consent of instructor). 3 hours</td>
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<td>Remote Sensing of the Physical Environment (GR 3303, 3311, or consent of instructor). 3 hours</td>
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<td>GR 6343</td>
<td>Advanced Remote Sensing (Either GR 4333/6333, ECE 4423/6423, or FO 4452/6452 or consent of instructor). 3 hours</td>
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<td>GR 6353</td>
<td>Geodatabase Design (GR 4303/6303 or consent of instructor). 3 hours</td>
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<td>GR 6363</td>
<td>Geographic Information Systems Programming (Either GR 4303/6303 or consent of instructor). 3 hours</td>
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<td>GR 6402</td>
<td>Weather Analysis I (GR 1603 or equivalent). 2 hours</td>
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<td>GR 6411-6441</td>
<td>Remote Sensing Seminar (Junior standing). 1 hour</td>
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<td>GR 6412</td>
<td>Weather Analysis II (GR 4402/6402). 2 hours</td>
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<td>GR 6422</td>
<td>Weather Forecasting I (GR 4412/6412). 2 hours</td>
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<td>GR 6432</td>
<td>Weather Forecasting II (GR 4422/6422). 2 hours</td>
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<td>GR 6473</td>
<td>Numerical Weather Prediction (Consent of instructor). 3 hours</td>
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<td>GR 6502</td>
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GR 6512 Practicum in Broadcast Meteorology II (GR 4502/6502). 2 hours
GR 6522 Practicum in Broadcast Meteorology III (GR 4512/6512). 2 hours
GR 6532 Practicum in Broadcast Meteorology IV (GR 4522/6522). 2 hours
GR 6603 Climatology (GR 1114 or GR 1123, or equivalent). 3 hours
GR 6613 Applied Climatology (GR 1603 or equivalent). 3 hours
GR 6623 Physical Meteorology (GR 1603). 3 hours
GR 6633 Statistical Climatology (GR 1603 or GG 1113 or equivalent and MA 1313 or MA 1713). 3 hours
GR 6640 Meteorological Internship (Consent of instructor). 1-6 hours
GR 6713 Synoptic Meteorology I (GR 1603 or equivalent). 3 hours
GR 6733 Synoptic Meteorology II (GR 1603 and MA 1713). 3 hours
GR 6753 Satellite and Radar Meteorology (GR 1603). 3 hours
GR 6813 Natural Hazards and Processes (GR 1114 or equivalent). 3 hours
GR 6823 Dynamic Meteorology I (GR 4733/6733). 3 hours
GR 6841 Observations of Severe Local Storms (Consent of instructor). 1 hour
GR 6842 Forecasting Severe Local Storms (Consent of instructor). 2 hours
GR 6843 Field Methods for Severe Local Storms (Consent of instructor). 3 hours
GR 6913 Thermodynamic Meteorology (GR 4723/6723 or equivalent). 3 hours
GR 6923 Severe Weather (GR 4913/6913 or equivalent). 3 hours
GR 6933 Dynamic Meteorology II (GR 4823/6823). 3 hours
GR 6943 Tropical Meteorology (Consent of instructor). 3 hours
GR 6963 Mesoscale Meteorology (GR 4913/6913). 3 hours
GR 6990 Special Topics in Geosciences. 1-9 hours
GR 7000 Directed Individual Study. 1-6 hours
GR 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
GR 8123 Meteorology II: Forecasting and Storms (GR 6113 or consent of instructor). 3 hours (online)
GR 8133 Foundations in Forecasting (GR 8123 or consent of instructor). 3 hours (online)
GR 8143 Advanced Forecasting Techniques (Consent of Instructor). 3 hours (online)
GR 8191 Geoscience Review (30 hours of GR/GG graduate work and consent of instructor). 1 hour

GR 8303 Advanced Geodatabase Systems (GR 4353/6353 or consent of instructor). 3 hours
GR 8313 Advanced Cultural Geography (Consent of instructor). 3 hours
GR 8323 Geography for Teachers. 3 hours
GR 8333 Field Techniques in Remote Sensing (Either GR 4333/6333, ECE 4423/6423 or FO 4452/6452 or consent of instructor). 3 hours
GR 8400 Field Methods in Geoscience (Consent of instructor). 1-3 hours
GR 8542 Geographic Literature (Major or minor in geography). 2 hours
GR 8553 Research Methods in Geosciences (Consent of instructor). 3 hours
GR 8563 GIS Research Applications (GR 6333, GR 6313, ST 8114, or equivalent, or consent of instructor). 3 hours
GR 8573 Research in Applied Meteorology (Consent of instructor). 3 hours
GR 8613 Hydrometeorology (Consent of instructor). 3 hours
GR 8633 Climate Change (Consent of instructor). 3 hours
GR 8813 Advanced Hazards and Disasters (Consent of instructor). 3 hours
GR 8833 Weather and Society (Consent of instructor). 3 hours
GR 8913 Philosophy and Ethics in Geosciences (Consent of instructor). 3 hours
GR 8990 Special Topics in Geosciences. 3 hours

HISTORY
Dr. Alan I. Marcus, Department Head
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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.

Application Deadlines—
For fall semester ............................................ April 1
For spring semester ............................................ November 1
For student seeking a teaching assistantship (fall semester only) ............................................. March 1

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 9 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.

Master of Arts Degree

Program of Study/Completion Requirements

The History Department offers the Master of Arts degree with an emphasis in United States, European, Latin American, African, Asian, or World History. Each 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
Program of Study/Completion Requirements
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. Students seeking History Department-sponsored funding (Teaching Assistantships) should apply by March 1 in order for their applications to receive full consideration. 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.

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/und ergraduate_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

Program of Study/Completion Requirements

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>
<td>3</td>
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<tr>
<td>HI 6113</td>
<td>U.S. History 1783-1825</td>
<td>3</td>
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<tr>
<td>HI 6123</td>
<td>Jacksonian America, 1825-1850</td>
<td>3</td>
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<tr>
<td>HI 6133</td>
<td>Civil War and Reconstruction, 1850-1877</td>
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<td>HI 6143</td>
<td>Revolutionary America</td>
<td>3</td>
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<tr>
<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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<td>HI 6183</td>
<td>U.S. Economic History</td>
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<tr>
<td>HI 6193</td>
<td>U.S. Environmental History (Completion of any 1000-level history course)</td>
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<td>Diplomatic History of the U.S. 3</td>
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<td>3</td>
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<td>Intelligence Gathering in the 20th Century (Completion of any 1000-level history course or consent of instructor). 2</td>
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<td>American Military History (Completion of any 1000-level history course). 3</td>
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<td>HI 6243</td>
<td>American Life and Thought. 3</td>
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<td>HI 6253</td>
<td>Religion in America (HI 1063 or 1073). 3</td>
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<td>HI 6263</td>
<td>America’s Viet Nam War. 3</td>
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<td>HI 6273</td>
<td>Women in American History. 3</td>
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<td>HI 6283</td>
<td>History of Southern Women. 3</td>
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<td>HI 6293</td>
<td>History of Gender and Science. 3</td>
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<td>HI 6303</td>
<td>The Old South. 3</td>
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<td>HI 6313</td>
<td>The New South. 3</td>
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<td>HI 6323</td>
<td>The American West. 3</td>
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<td>HI 6333</td>
<td>Native American History to 1830 (Completion of any 1000 level history course). 3</td>
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<td>HI 6343</td>
<td>Native American History Since 1830 (Completion of any 1000 level history course). 3</td>
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<td>HI 6363</td>
<td>African-American History and Culture. 3</td>
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<td>HI 6373</td>
<td>History of the Modern Civil Rights Movement. 3</td>
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<td>HI 6393</td>
<td>Rural America. 3</td>
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<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</td>
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<tr>
<td>HI 6413</td>
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<tr>
<td>HI 6423</td>
<td>Medieval Civilization. 3</td>
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<td>HI 6443</td>
<td>Renaissance and Reformation. 3</td>
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<td>HI 6493</td>
<td>Terrorism in America. 3</td>
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<td>HI 6523</td>
<td>Europe, 1789-1914. 3</td>
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<td>HI 6553</td>
<td>Science and Technology to Newton. 3</td>
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<td>HI 6563</td>
<td>Viet Nam Between Revolution and War, 1940-1990. 3</td>
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<td>HI 6583</td>
<td>China Since 1800. 3</td>
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<tr>
<td>HI 6593</td>
<td>Japan Since 1600. 3</td>
<td>3</td>
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<tr>
<td>HI 6603</td>
<td>Medieval Civilization. 3</td>
<td>3</td>
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HI 6613  History of the Soviet Union (Completion of any 1000-level history course). 3 hours
HI 6643  Renaissance and Reformation. 3 hours
HI 6653  The History of Science and Technology. 3 hours
HI 6673  Europe, 1789-1914. 3 hours
HI 6683  Europe: The First World War to Hitler. 3 hours
HI 6693  Europe: The Second World War to the Common Market. 3 hours
HI 6703  England to 1485. 3 hours
HI 6713  Tudor and Stuart England. 3 hours
HI 6723  History of Britain Since 1688. 3 hours
HI 6733  Constitutional and Legal History of England. 3 hours
HI 6743  Evolution of International Politics. 3 hours
HI 6753  History of Russia. 3 hours
HI 6763  History of Modern Germany. 3 hours
HI 6773  History of Modern France. 3 hours
HI 6783  African Civilization to 1880. 3 hours
HI 6793  Modern Africa. 3 hours
HI 6813  History of Modern Civil Rights Movement. 3 hours
HI 6833  Colonial Latin America. 3 hours
HI 6843  Latin-American Republics. 3 hours
HI 6853  Modern Mexico. 3 hours
HI 6883  US History of Medicine. 3 hours
HI 6903  The Far East. 3 hours
HI 6913  The Administration of Archives and Manuscript Collections. 3 hours
HI 6923A  Practicum in Archival Administration (HI 4913/6913). 3 hours
HI 6990  Special Topics in History. 1-9 hours
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 8543  Diversity and Discrimination Law. (Same as AAS 8543). 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
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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 8543 Diversity and Discrimination Law (Same as HI 8543). 3 hours
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) (Same as SO 8973). 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
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Dr. Corlis Johnson, Graduate Coordinator
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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 coursework 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 coursework 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.

**Master of Science**

**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, and 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.

**Doctor of Philosophy**

**Program of Study/Completion Requirements**

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, geometric combinatorics, 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>MA 6133</td>
<td>Discrete Mathematics (MA 3163 or consent of instructor)</td>
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<tr>
<td>MA 6143</td>
<td>Graph Theory (MA 3113 or consent of instructor)</td>
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<tr>
<td>MA 6153</td>
<td>Matrices and Linear Algebra (MA 3113 and MA 3253)</td>
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<td>MA 6163</td>
<td>Group Theory (MA 3163 or consent of instructor)</td>
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<td>MA 6173</td>
<td>Number Theory (MA 3113)</td>
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<td>MA 6243</td>
<td>Data Analysis I (MA 2743). Corequisite: MA 3113.</td>
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<td>MA 6253</td>
<td>Data Analysis II (MA/ST 4243/6243 and MA 3113)</td>
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<td>MA 6313</td>
<td>Numerical Analysis I (CSE 1213 or equivalent, MA 3113 and MA 2743).</td>
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<td>MA 6323</td>
<td>Numerical Analysis II (CSE 1213 or equivalent, MA 3113, and MA 3253).</td>
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<td>MA 6373</td>
<td>Introduction to Partial Differential Equations (MA 3253)</td>
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<td>MA 6513</td>
<td>Applied Probability and Statistics for Secondary Teachers (MA 1723)</td>
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<td>MA 6523</td>
<td>Introduction to Probability (MA 2733) [Same as ST 6523].</td>
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<td>MA 6533</td>
<td>Introductory Probability and Random Processes (MA 3113 and MA 2743).</td>
<td>3 hours</td>
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<td>Course Code</td>
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<td>Prerequisites</td>
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<td>MA 6543</td>
<td>Introduction to Mathematical Statistics I</td>
<td>(MA 2743) [Same as ST 6543]. 3 hours</td>
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<td>MA 6573</td>
<td>Introduction to Mathematical Statistics II</td>
<td>(MA 4543/6543) [Same as ST 6573]. 3 hours</td>
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<td>MA 6633</td>
<td>Advanced Calculus I (MA 2743 and MA 3053). 3 hours</td>
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<td>MA 6643</td>
<td>Advanced Calculus II (MA 4633/6633). 3 hours</td>
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<td>MA 6733</td>
<td>Linear Programming (MA 3113) [Same as IE 6733]. 3 hours</td>
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<td>MA 6753</td>
<td>Applied Complex Variables (MA 2743). 3 hours</td>
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<td>MA 6933</td>
<td>Mathematical Analysis I (MA 4633/6633 or equivalent). 3 hours</td>
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<td>MA 6943</td>
<td>Mathematical Analysis II (MA 4933/6933). 3 hours</td>
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<td>MA 6953</td>
<td>Elementary Topology (MA 4633/6633). 3 hours</td>
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<tr>
<td>MA 6990</td>
<td>Special Topics in Mathematics. Hours and credits to be arranged.</td>
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<tr>
<td>MA 7000</td>
<td>Directed Individual Study. Hours and credits to be arranged.</td>
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<td>MA 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>MA 8113</td>
<td>Modern Higher Algebra I (MA 4163/6163). 3 hours</td>
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<td>MA 8123</td>
<td>Modern Higher Algebra II (MA 8113). 3 hours</td>
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<tr>
<td>MA 8203</td>
<td>Foundations of Applied Mathematics I (MA 3113, MA 3253 or consent of instructor). 3 hours</td>
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<td>MA 8213</td>
<td>Foundations of Applied Mathematics II (MA 8203). 3 hours</td>
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<td>MA 8253</td>
<td>Operational Mathematics (MA 4753/6753). 3 hours</td>
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<tr>
<td>MA 8273</td>
<td>Special Functions (One of the following: MA 4633/6633, MA 4153/6153, MA 4753/6753). 3 hours</td>
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<td>MA 8283</td>
<td>Calculus of Variations (One of the following: MA 4633/6633, MA 4153/6153, MA 4753/6753). 3 hours</td>
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<tr>
<td>MA 8293</td>
<td>Integral Equations (One of the following: MA 4633/6633, MA 4153/6153, MA 4753/6753). 3 hours</td>
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<tr>
<td>MA 8313</td>
<td>Ordinary Differential Equations I (One of the following: MA 4633/6633, MA 4153/6153, MA 4753/6753). 3 hours</td>
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<td>MA 8323</td>
<td>Ordinary Differential Equations II (MA 8313). 3 hours</td>
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<td>MA 8333</td>
<td>Partial Differential Equations I (MA 4373/6373). 3 hours</td>
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<td>MA 8343</td>
<td>Partial Differential Equations II (MA 8333). 3 hours</td>
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<td>MA 8363</td>
<td>Numerical Solution of Systems of Nonlinear Equations (MA 4313/6313 and MA 4323/6323). 3 hours</td>
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<td>MA 8383</td>
<td>Numerical Solution of Ordinary Differential Equations I (MA 4313/6313 and MA 4323/6323). 3 hours</td>
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<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). 3 hours</td>
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<tr>
<td>MA 8453</td>
<td>Numerical Solution of Partial Differential Equations II (MA 8443). 3 hours</td>
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<tr>
<td>MA 8463</td>
<td>Numerical Linear Algebra (MA 4323/6323). 3 hours</td>
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<td>MA 8633</td>
<td>Real Analysis I (MA 4943/6943). 3 hours</td>
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<td>MA 8643</td>
<td>Real Analysis II (MA 8633). 3 hours</td>
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<td>MA 8663</td>
<td>Functional Analysis I (MA 8643). 3 hours</td>
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<td>MA 8673</td>
<td>Functional Analysis II (MA 8663). 3 hours</td>
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<td>MA 8713</td>
<td>Complex Analysis I (MA 4943/6943 or consent of instructor). 3 hours</td>
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<td>MA 8723</td>
<td>Complex Analysis II (MA 8713). 3 hours</td>
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<td>MA 8913</td>
<td>Introduction to Topology I (MA 4643/6643 or MA 4953/6953). 3 hours</td>
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<td>MA 8923</td>
<td>Introduction to Topology II (MA 8913). 3 hours</td>
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<tr>
<td>MA 8981</td>
<td>Teaching Seminar (May be taken for credit more than once). 1 hour</td>
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<td>MA 8990</td>
<td>Special Topics in Mathematics. Hours and credits to be arranged.</td>
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<tr>
<td>MA 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>MA 9313</td>
<td>Selected Topics in Ordinary Differential Equations (MA 8313 and consent of instructor) (May be taken for credit more than once). 3 hours</td>
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<tr>
<td>MA 9333</td>
<td>Selected Topics in Partial Differential Equations (MA 8333 and consent of instructor) (May be taken for credit more than once). 3 hours</td>
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<tr>
<td>MA 9413</td>
<td>Selected Topics in Numerical Analysis (Consent of instructor) (May be taken for credit more than once). 3 hours</td>
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<tr>
<td>MA 9633</td>
<td>Selected Topics in Analysis (MA 8643 and consent of instructor) (May be taken for credit more than once). 3 hours</td>
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</tbody>
</table>

**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 coursework 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 coursework 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.
**Master of Science**  
**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.

**Doctor of Philosophy**  
**Program of Study/Completion Requirements**  
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.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ST 6111</td>
<td>Seminar in Statistical Packages</td>
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<tr>
<td>ST 6211</td>
<td>Statistical Consulting (Consent of instructor) (May be taken for credit more than once)</td>
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<td>ST 6213</td>
<td>Nonparametric Methods (Introductory course in statistical methods)</td>
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<td>ST 6243</td>
<td>Data Analysis I (MA 2743. Corequisite: MA 3113) [Same as MA 6243]</td>
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<td>ST 6253</td>
<td>Data Analysis II (MA/ST 4243/6243 and MA 3113) [Same as MA 6253]</td>
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<tr>
<td>ST 6313</td>
<td>Introduction to Spatial Statistics (Grade of C or better in ST 3123 or equivalent)</td>
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<td>ST 6523</td>
<td>Introduction to Probability (MA 2733) [Same as MA 6523]</td>
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<td>ST 6543</td>
<td>Introduction to Mathematical Statistics I (MA 2743) [Same as MA 6543]</td>
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<td>ST 6990</td>
<td>Special Topics in Statistics.</td>
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<td>Directed Individual Study. Hours and credits to be arranged.</td>
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<tr>
<td>ST 8114</td>
<td>Statistical Methods (MA 1313).</td>
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<td>ST 8214</td>
<td>Design and Analysis of Experiments (ST 8114).</td>
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<td>ST 8253</td>
<td>Regression Analysis (ST 8114 or equivalent).</td>
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<td>ST 8263</td>
<td>Advanced Regression Analysis (ST 8253).</td>
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<td>ST 8313</td>
<td>Introduction to Survey Sampling (ST 8114).</td>
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<td>ST 8353</td>
<td>Statistical Computations (ST 8114).</td>
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<td>ST 8413</td>
<td>Multivariate Statistical Methods (ST 8253).</td>
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<td>Multivariate Statistical Analysis (ST 8413 and ST 8613 or consent of instructor).</td>
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<td>ST 8533</td>
<td>Applied Probability (ST 4543/6543).</td>
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<td>ST 8553</td>
<td>Advanced Probability Theory (ST 6543 and MA 8633 or consent of instructor).</td>
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<td>ST 8563</td>
<td>Advanced Stochastic Processes (ST 8553 or consent of instructor).</td>
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<td>ST 8603</td>
<td>Applied Statistics (ST 4253/6253 or equivalent).</td>
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<td>Linear Models I (ST 4573/6573 and ST 4253/6253).</td>
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<td>ST 8733</td>
<td>Advanced Statistical Inference I (MA/ST 4573/6573 or consent of instructor).</td>
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<td>ST 8853</td>
<td>Advanced Design of Experiments I (ST 8603 or ST 8214).</td>
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<td>ST 8863</td>
<td>Advanced Design of Experiments II (ST 8853 and ST 8613).</td>
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<td>ST 8913</td>
<td>Recent Developments in Statistics (Consent of instructor).</td>
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<td>ST 8951</td>
<td>Seminar in Statistics (Consent of instructor) (May be taken for credit more than once).</td>
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<td>ST 8990</td>
<td>Special Topics in Statistics.</td>
<td>1-9</td>
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<tr>
<td>ST 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
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</tbody>
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PHILOSOPHY AND RELIGION
Dr. John Bickle, Department Head
228 Etheredge Hall
Box JS
Mississippi State, MS 39762
Telephone: 662-325-2382
E-mail: jbickle@philrel.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:
PHI 6013 Contemporary Philosophy and Architecture [Same as ARC 4333/6333]. 3 hours
PHI 6123 Contemporary Continental Philosophy. 3 hours
PHI 6143 Philosophy of Science. 3 hours
PHI 6153 American Philosophy. 3 hours
PHI 6163 Research Ethics. 3 hours
PHI 6213 Theories of Inquiry. 3 hours
PHI 6223 Philosophy of Cognitive Science. 3 hours
PHI 6313 Feminist Interpretations of Western Social and Political Philosophy. 3 hours
PHI 6423 Process Philosophy. 3 hours
PHI 6990 Special Topics in Philosophy. 1-9 hours
PHI 7000 Directed Individual Study. 1-6 hours
PHI 8101 Case Studies in Scientific Research Ethics [Same as CVM 8101]. 1 hour
PHI 8990 Special Topics in Philosophy. 1-9 hours

Religion:
REL 6123 Scandinavian Mythology [Same as FL 4123/6123]. 3 hours
REL 6143 Classical Mythology [Same as FL 4143/6143]. 3 hours
REL 6253 Religion in America (HI 1063 or 1073) [Same as HI 4253/6253]. 3 hours
REL 6403 The Ancient Near East (Completion of any 1000-level History course) [Same as HI 4403/6403 and MEC 4403/6403]. 3 hours
REL 6990 Special Topics in Religion. 1-9 hours
REL 7000 Directed Individual Study. 1-6 hours
REL 8990 Special Topics in Religion. 1-9 hours

PHYSICS AND ASTRONOMY
Dr. Mark Novotny, Department Head
Dr. David Monts, Graduate Coordinator
125 Hilbun Hall
Box 5167
Mississippi State, MS 39762
Telephone: 662-325-2806
Fax: 662-325-8898
E-mail: physics@msstate.edu
Website: http://physics.msstate.edu/

Graduate study is offered in the Department of Physics and Astronomy leading to the degree of Master of Science in Physics; both thesis and non-thesis options are offered. 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.

Master of Science
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.

Doctor of Philosophy
Program of Study/Completion Requirements
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 are required to 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. All Ph.D. candidates must then pass 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.

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</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PH 6013</td>
<td>Selected Topics in Physics for Teachers</td>
<td>3</td>
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<tr>
<td>PH 6023</td>
<td>Astronomy for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>PH 6033</td>
<td>Demonstrations and Concepts for Physics Teachers I</td>
<td>3</td>
</tr>
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<td>PH 6043</td>
<td>Demonstrations and Concepts for Physics Teachers II</td>
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<td>PH 6053</td>
<td>Physical Science for Teachers (Consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>PH 6113</td>
<td>Electronic Circuits for Scientists</td>
<td>3</td>
</tr>
<tr>
<td>PH 6143</td>
<td>Intermediate Laboratory</td>
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<td>PH 6152</td>
<td>Modern Physics Laboratory</td>
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<td>PH 6213</td>
<td>Intermediate Mechanics I (PH 1133 or PH 2233 and MA 2733)</td>
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<td>Intermediate Mechanics II (PH 4213/6213)</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 6333</td>
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<td>PH 6413</td>
<td>Thermal Physics (PH 3613, MA 2743)</td>
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<td>PH 6513</td>
<td>Intermediate Optics (PH 1123 or PH 2233, MA 2733)</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>
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<tr>
<td>PH 6723</td>
<td>Applications of Quantum Mechanics (PH 4713/6713)</td>
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<tr>
<td>PH 6813</td>
<td>Introduction to Solid State Physics (PH 3613)</td>
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<td>PH 6990</td>
<td>Special Topics in Physics.1-9 hours</td>
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<td>PH 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<tr>
<td>PH 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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<tr>
<td>PH 8213</td>
<td>Mechanics (A good undergraduate training in physics and mathematics and consent of instructor)</td>
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<tr>
<td>PH 8233</td>
<td>Methods of Theoretical Physics I (Consent of instructor)</td>
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<tr>
<td>PH 8243</td>
<td>Methods of Theoretical Physics II (PH 8233)</td>
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PH 8313 Electromagnetic Theory (PH 4333/6333 or equivalent). 3 hours
PH 8323 Electromagnetic Theory II (Same as ECE 8323). 3 hours
PH 8513 Statistical Mechanics (PH 4713 and PH 4413). 3 hours
PH 8613 Nuclear Physics I (PH 4723/6723). 3 hours
PH 8743 Quantum Mechanics I (PH 4723/6723, MA 3313). 3 hours
PH 8753 Quantum Mechanics II (PH 8743). 3 hours
PH 8803 Molecular Structure (PH 8743). 3 hours
PH 8990 Special Topics in Physics. 1-9 hours
PH 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

POLITICAL SCIENCE AND PUBLIC ADMINISTRATION

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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.

Doctor of Philosophy in Public Policy and Administration

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

The 42-hour Master of Public Policy and Administration (M.P.P.A.) 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PPA 8103</td>
<td>Seminar in Public Administration</td>
</tr>
<tr>
<td>PPA 8703</td>
<td>Government Organization and Administrative Theory</td>
</tr>
<tr>
<td>PPA 8713</td>
<td>Public Personnel Management</td>
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<tr>
<td>PPA 8723</td>
<td>Public Budgeting and Financial Management</td>
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<tr>
<td>PPA 8733</td>
<td>Public Program Evaluation</td>
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<tr>
<td>PPA 8743</td>
<td>Administrative Law</td>
</tr>
<tr>
<td>PPA 8803</td>
<td>Research Methods for Public Affairs</td>
</tr>
<tr>
<td>PPA 8903</td>
<td>Public Policy</td>
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</tbody>
</table>

(2) Elective Courses—12 hours
Each student must complete a 12-hour elective concentration to augment knowledge, skills, and abilities acquired in required courses. These courses are tailored to the student’s career objective.

(3) Internship—3 hours
Each student completes an internship in a public or non-profit agency. The internship is waived for students possessing at least one year of relevant work experience.

Unsatisfactory Performance
A student in the M.P.P.A. program will be dismissed if he or she receives grades of C or lower in 6 or more credits of graduate work.

Master of Arts in Political Science
Admission Criteria
A competitive applicant for the Master of Arts in Political Science program must have completed the last two years of undergraduate work with a grade point average of 3.00; an applicant with previous graduate work must have a grade point average of 3.00 on such coursework. Moreover, the applicant must submit three letters of recommendation. An applicant with a lower grade point average may be admitted if he or she has a competitive score on the Miller Analogies Test or on the verbal, quantitative, and analytical writing portions of the GRE.

An international applicant whose native language is not English must have a score of 600 PBT (250 CBT or 100 iBT) on the TOEFL (Test of English as a Foreign Language) or an IELTS (International English Language Testing Systems) score of 7.5. 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.

Provisional Admission—An applicant who fails to meet admission requirements may be admitted on a provisional basis. A student who is admitted on a provisional basis must receive no grade lower than B during the initial 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 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.

A student not 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 into his/her program of study.

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

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 6363 International Peacekeeping and Post-Conflict Nation (PS 1313 or PS 1513). 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

PS 6633 Democracy and Democratization (PS 1513). 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
<table>
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<th>Course Code</th>
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<tr>
<td>PS 6543</td>
<td>African Politics (PS 1513)</td>
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<td>PS 6553</td>
<td>West European Politics (PS 1513)</td>
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<td>PS 6573</td>
<td>South and Southeast Asian Politics (PS 1513)</td>
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<td>PS 6593</td>
<td>Latin American Politics (PS 1513)</td>
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<td>PS 6623</td>
<td>Politics of the Third World (PS 1513)</td>
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<td>PS 8203</td>
<td>Seminar in Comparative Government (PS 1513 and 9 hours of related courses or consent of instructor)</td>
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<td>PS 8543</td>
<td>Readings in Comparative Government and Politics (Consent of instructor)</td>
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<td>PS 8644</td>
<td>Political Analysis (6 hours in political science)</td>
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<td>PS 6990</td>
<td>Special Topics in Political Science</td>
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<td>PS 8803</td>
<td>Research Methods for Public Affairs [Same as PPA 8803]</td>
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<td>PS 7000</td>
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<td>PS 6703</td>
<td>Principles of Public Administration (PS 1113)</td>
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<td>PPA 8103</td>
<td>Seminar in Public Administration</td>
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<td>PPA 8123</td>
<td>State Government Administration</td>
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<td>City and County Management</td>
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<td>PPA 8143</td>
<td>Civil Rights and Affirmative Action</td>
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<td>PPA 8153</td>
<td>Seminar in Privatization</td>
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<td>PPA 8193</td>
<td>Seminar in Intergovernmental Relations.</td>
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<td>Public Administration Internship</td>
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<td>PPA 8703</td>
<td>Government Organization and Administrative Theory</td>
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<td>Administrative Law (PS 4703/6703)</td>
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<td>PPA 8763</td>
<td>Local Government Planning</td>
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<td>PPA 8793</td>
<td>Directed Research in Public Administration (PPA 8803 and special permission)</td>
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<td>Research Methods for Public Affairs [Same as PPA 8803]</td>
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<td>PPA 8983</td>
<td>Integrative Capstone (Consent of instructor)</td>
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<td>PPA 9413</td>
<td>Normative Analysis of American Public Policy [Same as PPA 9413]</td>
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<td>PPA 9603</td>
<td>Scope of American Public Administration (Consent of instructor)</td>
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<td>PPA 9613</td>
<td>Rural Government Administration I: Theoretical and Environmental Aspects (Consent of instructor)</td>
<td>3</td>
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<td>PPA 9623</td>
<td>Rural Government Administration II: Implementation Aspects (Consent of instructor)</td>
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<td>PPA 9703</td>
<td>Organization Behavior in the Public Sector (Consent of instructor)</td>
<td>3</td>
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<tr>
<td>PPA 9713</td>
<td>Administration of Human Resources in a Public Sector Environment (Consent of instructor)</td>
<td>3</td>
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<tr>
<td>PPA 9723</td>
<td>Public Budgeting Processes and Their Policy Implications (Consent of instructor)</td>
<td>3</td>
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<tr>
<td>PPA 9803</td>
<td>Multivariate Analysis and Design for Public Affairs (Consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>PPA 9893</td>
<td>American Political Behavior (PPA 9803 and consent of instructor) [Same as PPA 9893]</td>
<td>3</td>
</tr>
<tr>
<td>PPA 9903</td>
<td>Public Policy Formulation and Implementation (Consent of instructor)</td>
<td>3</td>
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</tbody>
</table>
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 and experimental psychology
- For the cognitive science doctoral program—introductory cognitive psychology
- For the clinical master’s program—abnormal psychology
- And (if available to applicants) biological/physiological psychology or some sort of behavioral neuroscience course

The application deadline for the Cognitive Science doctoral program is January 15. The application deadline for the master’s program (for both Clinical and Experimental) is February 1. Occasionally, students are admitted to begin in January.

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 requirements of 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.

Doctor of Philosophy
Program of Study/Completion Requirements
A student in the 72-hour doctoral program is required to complete successfully courses (number of hours in parentheses) listed below in the following psychology core areas:

- Cognitive Science Core (CSC) (6 hours)
  - PSY 6653 Cognitive Science
  - PSY 8713 Issues and methods in Cognitive Psychology
- Research Methods and Quantitative Core (10 hours)
  - PSY 8214 Quantitative methods in Psychology II
  - PSY 8803 Advanced Quantitative Methods for Industrial/Organization and General Psychology
- PSY 8513 Psychological Research Methods
- Cognitive Science integration (CSI) (3 hours from the following)
  - CSE 6633 Artificial Intelligence
  - PSY 8723 Cognitive Models of Skill
  - CSE 8633 Natural Language Processing
  - PHI 6143 Philosophy of Science
  - EN 6403 Introduction to Linguistics
- Applied Cognitive Integration (ACI) (3 hours from the following)
  - PSY 6753 Applied Cognitive Psychology
  - IE 8153 Cognitive Engineering
  - PSY 6123 Psychology of Human Computer Interaction
  - PSY 6353 Psychology and Law
  - IE 6113 Human Factors Engineering
  - MKT 8413 Seminar in Consumer Behavior
- Cognitive Psychology Integration (CPI) (3 hours from the following)
  - PSY 6423 Sensation and Perception
  - PSY 6733 Memory
  - PSY 6713 Language and Thought
- Advanced Graduate Seminars (9 hours required)
- PSY 8403-8413 Cognitive Science Reading Seminars
- Graduate Electives (9 hours)
  - PSY 8313 Developmental Psychology
  - PSY 8613 Advanced Social Psychology
  - PSY 6983 Psychology of Aging
  - PSY 6523 Industrial Psychology
  - CSE 8633 Natural Language Processing
  - CSE 8663 Neural Computing
  - IE 8343 Artificial Intelligence in Manufacturing
IE 8783  Natural Networks in Optimization  
SO 6413  Aging and Retirement  
COE 6713  Issues in Aging  
MKT 8313  Marketing Policies  
MKT 8343  Seminar in Marketing-Pricing and Product Strategies  
BIS 8112  Management Information Systems  
Other (29 hours)  
PSY 8731  Applied Cognitive Science Research Seminar (8 hours; taken during fall and spring semesters)  
PSY 9000  Dissertation/Research (21 hours required)  

In addition, the doctoral candidate must complete a research project during the first and second years, take a general examination during the fifth semester, and take a specialty exam during the sixth semester. The student must pass the comprehensive doctoral oral examination before admission to candidacy and the final doctoral oral examination which is the dissertation defense.

Master of Science  
Program of Study/Completion Requirements  
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 two grades of C or lower in graduate courses in a semester  
- Earning three grades of C or lower  
- In the doctoral program—failing the first or second year projects, the general or specialty exams, or 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.

Minor in Cognitive Science  
A minor in cognitive science is designed for students who wish to pursue an interdisciplinary study of mind and thought. Students completing the program will have a broad understanding of the field of cognitive science and will have demonstrated an approach that highlights the interdisciplinary nature of cognitive science. The candidate must complete 15 hours of coursework from the approved list. All students will be required to take PSY/CSE 6653. In addition, each student must take one additional course in psychology (from the list below) and one course in either IE or CSE (from the list below). Finally, all students must pass 6 hours of approved electives from two departments from the following list: PSY 6423, PSY 6643, PSY 6713, PSY 6733, PSY 6753, PSY 8713, PSY 8723/CSE 8613, PSY 8990 (with approval), PHI 6143, EN 6403/AN 6403, EN 6463, EN 6663/AN 6663/SO 6663, AN 6623/SO 6623, CSE 6633, CSE 6663, CSE 8633, CSE 8653, CSE 8663, CSE 8763, CSE 8990 (with approval), IE 6113, IE 8153, IE 8343, IE 8990 (with approval), ECE 6713, ECE 6813, ECE 8443, ECE 8463.

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). 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 (3713 or CSE 4633 or PHI 4142 or AN 4623). (Same as CSE 4653/6653). 3 hours  
- PSY 6713  Language and Thought (PS 1013 and PSY 3713, or consent of instructor). 3 hours  
- PSY 6733  Memory (PSY 1013 and PSY 3713). 3 hours  
- PSY 6743  Psychology of Human-Computer Interaction (PSY 3713 or CSE 4663/6663 or IE 4113/6113 of consent of instructor). 3 hours
PSY 6753  Applied Cognitive Psychology (PS 3713 or 
PSY 6903  IE 4113 or consent of instructor). 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 

PSY 8111-8151  Scientist-Practitioner Applications 
(Consent of instructor). 2 hours 
PSY 8214  Quantitative Methods in Psychology II 
(PSY 3104). 4 hours 
PSY 8223  Systems and Theories of Psychology (PSY 
4323). 3 hours 
PSY 8313  Developmental Psychology (PSY 3803). 3 
hours 
PSY 8323  Psychopathology (PSY 3213). 3 hours 
PSY 8333  Systems of Psychotherapy (Consent of 
instructor). 3 hours 
PSY 8354  Intelligence Testing (Consent of 
instructor), 4 hours 
PSY 8364  Personality Appraisal (PSY 8323). 4 hours 
PSY 8373  Child Psychopathology and Treatment of 
Childhood Disorders (PSY 3213). 3 hours 
PSY 8383  Behavior Therapy (Consent of instructor). 
3 hours 
PSY 8403- 8413 Seminar (Consent of department head 
required of all non-psychology students). 
3 hours 

PSY 8454-8464  Professional Practicum (Departmental 
consent). 4 hours 
PSY 8513  Psychological Research (PSY 4313). 3 
hours 
PSY 8533  Introduction to Clinical Practicum in 
Psychology (Consent of instructor). 3 hours 
PSY 8573  Psychopharmacology (PSY 4403 and PSY 
8323). 3 hours 
PSY 8613  Advanced Social Psychology (PSY 4623). 3 
hours 
PSY 8713  Issues and Methods in Cognitive 
Psychology (Graduate standing). 3 hours 
PSY 8723  Cognitive Skills Models (Graduate 
standing) [Same as CSE 8613]. 3 hours 
PSY 8731  Applied Cognitive Science Research 
Seminar. 3 hours 

PSY 8803  Advanced Quantitative Methods for 
Industrial/Organizational and General 
Psychology (PSY 8214). 3 hours 
PSY 8990  Special Topics in Psychology. 1-9 hours 

Hours and credits to be arranged; 
minimum of 20 hours required for 
degree
Continuous enrollment in the Ph.D. program in Sociology is dependent upon a satisfactory evaluation of academic performance and progress toward completion of the degree. Unsatisfactory performance will result in dismissal from the Ph.D. program. A student's performance is deemed unsatisfactory if one or more of the following occurs:
1) More than two letter grades below a B in a student's graduate 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 program of study, the successful completion of the coursework, 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.

Doctor of Philosophy
Program of Study
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, 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.

Minor in Sociology
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:
• More than two letter grades below a B in a student's graduate coursework
• Failure to maintain a cumulative 3.00 GPA for two consecutive semesters
• More than one unsatisfactory U grade for thesis research
• Two failures on the M.S. Exit Examination or two failures on the M.S. Thesis Defense

Master of Science
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.

Doctor of Philosophy
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
If the 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).

### 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>SO 6113</td>
<td>Social Organization and Change</td>
<td>3</td>
</tr>
<tr>
<td>SO 6123</td>
<td>Poverty Analysis: People, Organizations and Programs</td>
<td>3</td>
</tr>
<tr>
<td>SO 6173</td>
<td>Environment and Society</td>
<td>3</td>
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<tr>
<td>SO 6203</td>
<td>The Family in the United States</td>
<td>3</td>
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<tr>
<td>SO 6223</td>
<td>Comparative Family Systems</td>
<td>3</td>
</tr>
<tr>
<td>SO 6233</td>
<td>Juvenile Delinquency</td>
<td>3</td>
</tr>
<tr>
<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 6273</td>
<td>Sociology of Education</td>
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<tr>
<td>SO 6303</td>
<td>Urban Sociology</td>
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<tr>
<td>SO 6323</td>
<td>Victimology</td>
<td>3</td>
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<tr>
<td>SO 6333</td>
<td>Sociology of Sport</td>
<td>3</td>
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<tr>
<td>SO 6403*</td>
<td>Sociology of Gender</td>
<td>3</td>
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<tr>
<td>SO 6413</td>
<td>Aging and Retirement in American Society</td>
<td>3</td>
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<tr>
<td>SO 6423</td>
<td>Health and Society</td>
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<tr>
<td>SO 6433</td>
<td>Sociology of Death and Dying</td>
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<td>SO 6513</td>
<td>Correctional Systems</td>
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<td>SO 6523</td>
<td>Law and Society</td>
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<tr>
<td>SO 6623</td>
<td>Language and Culture (Same as AN 4623/6623 and EN 4623/6623)</td>
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<tr>
<td>SO 6633</td>
<td>Language and Society (Same as AN 4633/6633 and EN 4633/6633)</td>
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<td>SO 6703</td>
<td>Population Problems and Processes</td>
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<td>SO 6713</td>
<td>Methods in Population Research</td>
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<tr>
<td>SO 6733</td>
<td>Community: Organization and Relationships</td>
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<tr>
<td>SO 6990</td>
<td>Special Topics in Sociology</td>
<td>1-9</td>
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<tr>
<td>SO 7000*</td>
<td>Directed Individual Study</td>
<td>1-6</td>
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<tr>
<td>SO 8000</td>
<td>Thesis Research/Thesis</td>
<td>Hours credits to be arranged; minimum of 6 hours required for degree</td>
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<td>SO 8103</td>
<td>Graduate Social Theory I</td>
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<td>SO 8113</td>
<td>Graduate Social Theory II</td>
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<td>SO 8213</td>
<td>Research Design</td>
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<td>SO 8223</td>
<td>Advanced Quantitative Analysis (SO 8213)</td>
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<tr>
<td>SO 8233</td>
<td>Qualitative Analysis (SO 8213)</td>
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</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>
<td>4</td>
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<tr>
<td>SO 8284</td>
<td>Graduate Social Statistics II (SO 8274)</td>
<td>4</td>
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<tr>
<td>SO 8293</td>
<td>Structural Equations Modeling with Latent Variables in Sociology</td>
<td>3</td>
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<tr>
<td>SO 8323</td>
<td>Strategies and Tactics of Planned Change</td>
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<tr>
<td>SO 8343</td>
<td>Complex Organizations</td>
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<tr>
<td>SO 8403</td>
<td>Seminar in Race Relations</td>
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<td>SO 8413</td>
<td>Seminar in Social Stratification</td>
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<td>SO 8423</td>
<td>Seminar in Deviant Behavior</td>
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<td>SO 8433</td>
<td>Seminar in Criminology</td>
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<tr>
<td>SO 8503*</td>
<td>Seminar in Family</td>
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<tr>
<td>SO 8523</td>
<td>Symbolic Interaction and Social Structure</td>
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<tr>
<td>SO 8603</td>
<td>Seminar in Modernization</td>
<td>3</td>
</tr>
<tr>
<td>SO 8673</td>
<td>Seminar in Social Impact Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SO 8703</td>
<td>Seminar in Population</td>
<td>3</td>
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<tr>
<td>SO 8723</td>
<td>Advanced Demographic Analysis and Research</td>
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<tr>
<td>SO 8900</td>
<td>Fields of Sociology</td>
<td>1-3</td>
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<tr>
<td>SO 8963</td>
<td>Exploring Issues in Gender (Graduate standing and enrollment in Diversity Certificate program)</td>
<td>3</td>
</tr>
<tr>
<td>SO 8973</td>
<td>Gender and Work (Graduate standing and enrollment in Diversity Certificate program)</td>
<td>3</td>
</tr>
<tr>
<td>SO 8983</td>
<td>Seminar in Race Relations (Graduate standing and enrollment in Diversity Certificate program)</td>
<td>3</td>
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<tr>
<td>SO 8993</td>
<td>Sociology of Gender (Graduate standing and enrollment in Diversity Certificate program)</td>
<td>3</td>
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<tr>
<td>SO 8990</td>
<td>Special Topics in Sociology</td>
<td>1-9</td>
</tr>
<tr>
<td>SO 9000</td>
<td>Dissertation Research/Dissertation</td>
<td>Hours credits to be arranged; minimum of 20 hours required for degree</td>
</tr>
</tbody>
</table>

*Denotes courses that are cross-listed with Gender Studies.

**Gender Studies Certificate Program**

Dr. Kimberly Kelly, 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: kk435@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).
The College of Business offers graduate coursework in business administration, accounting, information systems, management and marketing as well as applied economics. This section describes all doctoral and master’s programs offered at the graduate level.

### Degree Programs

(T=thesis; NT=non-thesis)  
[Offered: 1=Starkville, 2=Meridian, 5=Distance]

#### Adkerson School of Accountancy

**Master of Professional Accountancy**  
Major: Accounting (NT) [1]

**Master of Professional Accountancy**  
Major: Accounting; Concentration in Systems (NT) [1]

**Master of Taxation**  
Major: Taxation (NT) [1]

#### Department of Finance and Economics

**Master of Arts**  
Major: Economics (T; NT) [1]

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

#### Department of Management and Information Systems

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

#### Business Administration

**Master of Business Administration**  
Major: Business Administration (NT) [1, 2, 5]

**Master of Business Administration**  
Major: Project Management (NT) [1, 5]

**Master of Business Administration**  
Major: Business Administration  
Concentration: Accounting (NT) [2]

**Doctor of Philosophy**  
Major: Business Administration; Concentrations in Accounting [1]; Business Information Systems [1]; Finance [1]; Management [1]; Marketing [1]

The College of Business offers graduate coursework in business administration, accounting, information systems, management and marketing as well as applied economics. This section describes all doctoral and master’s 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:

- Ph.D. in Business Administration with concentrations in Accounting, Business Information Systems, Finance, Management, and Marketing;
- Ph.D. in Applied Economics

### Doctor of Philosophy in Business Administration

**Dr. Rebecca Long, Director of Graduate Studies**  
200 McCool Hall  
Box 5288  
Mississippi State, MS  39762  
Telephone: 662-325-1891  
E-mail: gsb@business.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, 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 odd 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 concentration field; at least two other members from the concentration 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
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 concentration 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.

- **Concentration 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 concentration 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 concentration 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
Dissertation Research Requirements—The student is required to complete a minimum of 20 credit hours of dissertation research in the concentration 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 concentration 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 concentration 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) Concentration Field Preliminary Examination—An eight-hour written examination is required in the concentration 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 concentration field is housed. The proposal defense is open to all
interested parties, and copies of the proposal are available through the unit housing the concentration.

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 concentration field is housed. To qualify for graduation in a given semester the final defense must take place at least by the “Last day for final examination for doctoral degree” as published in the graduate academic calendar of this publication. The final defense of the dissertation is open to all interested parties, and copies of the manuscript are available through the unit housing the concentration. 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 MSU 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
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. We admit students every other year; we are scheduled to admit new students for Fall 2013 and subsequent odd-numbered years. 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 third semester courses.

Guided by his or her interests and career goals, the student may specialize in a number of areas. Specific applied fields of specialization available include public economics, labor economics, industrial organization, and development economics. A field consists of a minimum of two approved graduate course electives in one area of specialization. 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 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 December after the third semester 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

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.

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 six programs at the master’s level:
- Master of Arts in Economics
- Master of Business Administration
- Master of Business Administration in Project Management
- Master of Professional Accountancy
- Master of Taxation
- Master of Science in Information Systems

MASTER OF ARTS IN ECONOMICS
Dr. Michael Highfield, Department Head
Dr. Randy Campbell, Director of Graduate Studies
312 McCool Hall
Box 9580
Mississippi State, MS 39762
Telephone: 662-325-2341
E-mail: grad-econ@business.msstate.edu

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. We admit students every other year; we are scheduled to admit new students for Fall 2013 and subsequent odd-numbered years.

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.

**MASTER OF BUSINESS ADMINISTRATION**

Dr. Rebecca Long, Director of Graduate Studies  
200 McCool Hall  
Box 5288  
Mississippi State, MS 39762  
Telephone: 662-325-1891  
E-mail: gsb@business.msstate.edu  
Websites:  
http://www.business.msstate.edu/gsb/mba.php  
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) or the Graduate Record Examination (GRE). Admission to the M.B.A. program requires a competitive GPA and a competitive GMAT or GRE score administered within the last five years.

In addition, a student must submit a statement of purpose, transcripts, three letters of recommendation, and a current résumé. The College of Business does not allow unclassified graduate students to take courses. Students must be accepted to a degree program prior to registering for courses.

Applicants will not be permitted to take graduate-level MBA courses prior to official admission to the program. Applicants may choose to take undergraduate prerequisite courses prior to official admission into the MBA program; however, doing so in no way guarantees admission to the MBA program.

Our full-time, on-campus program accepts applications for the fall semester only. The deadline for submitting all application materials, including the GMAT, is March 1.

Our part-time, distance program accepts applications for fall, spring, and summer.

**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 or 2) an IELTS, administered within the last two years. Other indicators of English proficiency may be considered on a case-by-case basis.

**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**—Students are required to complete foundation courses or the equivalent prerequisite courses which may be satisfied in part or total by prior undergraduate or graduate preparation in business. Please contact the MBA office for specific foundation course information.

**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:

- ACC 8112  
  Financial Statement & Management Accounting for Business Decision Making. 2 hours

- BIS 8112  
  Management of Information Technology and Systems. 2 hours

- BL 8112  
  Law, Business Ethics, & Dispute Resolution. 2 hours

- EC 8103  
  Economics for Managers. 3 hours

- FIN 8113  
  Corporate Finance. 3 hours
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<th>Hours</th>
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<tr>
<td>MKT 8153</td>
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<tr>
<td>BQA 8233</td>
<td>Quantitative Analysis and Business Research</td>
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<td>Human Resource Issues</td>
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<td>Leadership Skills for Managerial Behavior</td>
<td>2</td>
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<tr>
<td>MGT 8123</td>
<td>Strategic Business Consulting Project</td>
<td>3</td>
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**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.

**Transfer of Credit**—Up to 6 hours of graduate transfer credits may be accepted toward fulfilling the requirements for the master’s degree, provided the credits have been earned in a recognized (regionally accredited) institution and are considered applicable to the student’s graduate program. These credits are considered part of the student’s program and must adhere to the eight-year time limit restriction. Grades of C or below are not acceptable, nor are extension credits from other institutions.

**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:
IE 6533     Project Management. 3 hours

**BIS 8112**  Management of Information Technology and Systems. 2 hours
**ACC 8112**  Financial Statement and Management Accounting Report Analysis for Business Decision Making. 2 hours
**BQA 8233**  Quantitative Analysis and Business Research. 3 hours
**MGT 8111**  Human Resource Issues. 1 hour
**IE 6573**   Process Improvement Engineering. 3 hours
**MKT 8153**  Strategic Marketing Management. 3 hours
**MGT 8112**  Leadership Skills for Managerial Behavior. 2 hours
**IE 8583**   Enterprise Systems Engineering. 3 hours
**BL 8112**   Law, Business Ethics, and Dispute Resolution. 2 hours
**EC 8103**   Economics for Managers. 3 hours
**MGT 8123**  Strategic Business Consulting. 3 hours
**FIN 8313**  Financial Management of Projects. 3 hours, OR
**FIN 8113**  Corporate Finance. 3 hours

**MASTER OF PROFESSIONAL ACCOUNTANCY**
Adkerson School of Accountancy
Dr. James Scheiner, Director
Dr. Marcia Watson, Graduate Coordinator
300 McCool Hall
Box EF
Mississippi State, MS 39762
Telephone: 662-325-3710
Fax: 662-325-1646
E-mail: sac@business.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 G.P.A. of 3.00/4.00 over the last 60 hours of baccalaureate
work, an appropriate GPA on all upper-level accounting courses attempted in 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 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

**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

**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.

**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 3003 Accounting Information Systems I. 3 hours
- ACC 3013 Cost Accounting. 3 hours
- Computer Literacy
- Written Communication Skills
- 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

**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@business.msstate.edu.

MASTER OF SCIENCE IN INFORMATION SYSTEMS
Dr. Tim Barnett, Department Head
Dr. Bob Otondo, Graduate Coordinator
302 McCool Hall
Box 9581
Mississippi State, MS 39762
Telephone: 662-325-3928
E-mail: gsb@business.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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Replaces</th>
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</thead>
<tbody>
<tr>
<td>Survey of Accounting</td>
<td>Prin. of Financial Acc &amp; Prin. of Managerial Acc</td>
</tr>
<tr>
<td>Survey of Statistics</td>
<td>Business Statistical Methods I &amp; II</td>
</tr>
<tr>
<td>Survey of Management</td>
<td>Prin. of Management &amp; Production Management</td>
</tr>
<tr>
<td>Survey of Economics</td>
<td>Prin of Macroeconomics &amp; Prin of Microeconomics</td>
</tr>
<tr>
<td>Survey of Finance</td>
<td>Financial Management</td>
</tr>
<tr>
<td>Survey of Marketing</td>
<td>Principles of Marketing</td>
</tr>
<tr>
<td>6 Hours Programming Courses</td>
<td></td>
</tr>
</tbody>
</table>

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 3 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
- BIS 8753 Information Systems Collaborative Project. 3 hours

**BIS Elective Courses:**

- BIS 6113 BIS Security Management. 3 hours
- BIS 6513 Microcomputers/Networks. 3 hours
- BIS 6523 Advanced Languages II. 3 hours
- BIS 6533 Decision Support Systems. 3 hours

**NOTE:** The student must take at least two of the above BIS electives. The remaining hours may be selected from courses either inside or outside the College of Business with the approval of the student’s major professor. In addition, elective hours must be approved by the student’s major professor.

**Completion Requirements**

The course BIS 8753 (Information Systems Collaborative Project) is the capstone course for the M.S.I.S. program and constitutes the comprehensive exam. A grade of B or better in this course is required for graduation.

**Academic Performance**

A grade of C or better is required on all undergraduate prerequisite courses. A student in any graduate degree program in the College of Business 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.

**Minor in Information Systems**

A graduate minor in information systems is offered to both business and non-business graduate students. Students interested in business and technology may wish to pursue this minor. Typical career paths range from programmer to systems analyst, database administrator, network administration, IT manager, and chief information officer. The graduate minor in information systems will be awarded to candidates who have successfully completed the following specified 9 hours of approved coursework with a minimum GPA of 3.00 in those courses. The 9 hours are expected to be taken from the following list.

Choose any one of the following:

- BIS 6113 BIS Security Management
- BIS 6513 Microcomputers/Networks
- BIS 6523 Advanced Languages II
- BIS 6533 Decision Support Systems

Choose any two of the following:

- BIS 8213 Advanced Systems Analysis and Design
- BIS 8313 Advanced Database Design Administration
- BIS 8413 Decision Support and Expert Systems
- BIS 8513 Business Telecommunications
- BIS 8613 MIS Administration

The student selecting the minor must name a minor committee professor from the Department of Management and Information Systems to his/her graduate committee.

Any student interested in a minor in information systems should contact the Department of Management and Information Systems at 662-325-3928.
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 (see the Business Administration section of this publication).

Graduate Courses—Course prerequisites are noted in parentheses.

ACC 6023 Advanced Accounting (ACC 3033). 3 hours
ACC 6043 Municipal and Governmental Accounting (ACC 2023). 3 hours
ACC 6053 International Accounting (ACC 2023). 3 hours
ACC 6063 Income Tax II (ACC 4013). 3 hours
ACC 6203 Accounting Internship (Senior standing and approval by Internship Director prior to internship). 3 hours
ACC 6990 Special Topics in Accounting. 1-9 hours
ACC 7000 Directed Individual Study. 3 hours
ACC 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
ACC 8013 Seminar in Financial Accounting Theory (ACC 3033). 3 hours
ACC 8023 Advanced Managerial Accounting (ACC 3013). 3 hours
ACC 8033 Business Assurance Services (ACC 4033). 3 hours
ACC 8043 Fraud Examination (ACC 3053 and ACC 4033). 3 hours
ACC 8053 Professional Accounting Policy (ACC 3033). 3 hours
ACC 8063 Research in Tax Practice and Procedures (ACC 4013). 3 hours

ACC 8073 Taxation of Corporations and Shareholders (ACC 4013). 3 hours
ACC 8083 Federal Estate and Gift Taxation (ACC 4013). 3 hours
ACC 8093 Taxation of Partnerships, S Corporations, Trusts, and Estates (ACC 4013). 3 hours
ACC 8101 Analysis of Accounting Data (ACC 2203 or equivalent). 1 hour
ACC 8103 Income Taxation of Natural Resources (ACC 4013). 3 hours
ACC 8112 Financial Statement and Management Accounting Report Analysis for Decision Making (ACC 8303 or equivalent). 2 hours
ACC 8113 Advanced Income Tax and Wealth Management. 3 hours
ACC 8123 Tax Topics. 3 hours
ACC 8203 Advanced Accounting Analysis for Decision Making (ACC 2023, not open to undergraduate majors). 3 hours
ACC 8213 Financial Statement Analysis (ACC 8203 or equivalent). 3 hours
ACC 8303 Survey of Accounting. 3 hours
ACC 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree
ACC 9013 Seminar in Financial Accounting (ACC 8483). 3 hours
ACC 9023 Seminar in Management Accounting Research (ACC 8223). 3 hours
ACC 9033 Seminar in Accounting Research. 3 hours

FINANCE AND 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
Graduate Courses—Course prerequisites are noted in parentheses.

**BUS 9113** Preparing Future Business Faculty. 3 hours

**Economics:**

EC 6183 U.S. Economic History (Completion of any 1000-level history course). 3 hours

EC 6213 Personnel Economics (EC 2113 and EC 2123). 3 hours

EC 6223 Labor Law and Employment Policy (3 hours of economics or consent of instructor). 3 hours

EC 6303 Theory of Economic Development (EC 2113 and EC 2123). 3 hours

EC 6323 International Economic Relations (EC 2113 and EC 2123). 3 hours

EC 6423 Introduction to Public Finance (EC 2113 and EC 2123). 3 hours

EC 6433 Problems in State and Local Finance (EC 2113 and EC 2123). 3 hours

EC 6523 History of Economic Thought (EC 2113 or consent of instructor). 3 hours

EC 6990 Special Topics in Economics. 1-9 hours

EC 7000 Directed Individual Study. 3 hours

EC 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree

EC 8113 Corporate Finance (Graduate standing and FIN 3123 or equivalent). 3 hours

EC 8223 Problems in Corporation Finance (FIN 8113). 3 hours

EC 8423 Portfolio Management (FIN 8113 or equivalent). 3 hours

EC 8723 Financial Institutions Management (FIN 3113 and FIN 3123 or equivalent). 3 hours

EC 8733 Financial Markets, Rates, and Flows (FIN 8113 or equivalent). 3 hours

EC 8990 Special Topics in Finance. 1-9 hours

EC 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

**Finance:**

FIN 6123 Financial and Commodities Futures Markets (junior standing). 3 hours

FIN 6923 International Financial Management (FIN 3123 or consent of instructor). 3 hours

FIN 6990 Special Topics in Finance. 1-9 hours

FIN 7000 Directed Individual Study. 1-3 hours

FIN 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree

FIN 8113 Corporate Finance (Graduate standing and FIN 3123 or equivalent). 3 hours

FIN 8223 Problems in Corporation Finance (FIN 8113). 3 hours

FIN 8423 Portfolio Management (FIN 8113 or equivalent). 3 hours

FIN 8723 Financial Institutions Management (FIN 3113 and FIN 3123 or equivalent). 3 hours

FIN 8733 Financial Markets, Rates, and Flows (FIN 8113 or equivalent). 3 hours

FIN 8990 Special Topics in Finance. 1-9 hours

FIN 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

**Insurance:**

INS 6503 Risk Management (FIN 3123, MGT 3113, MKT 3013, or consent of instructor). 3 hours

INS 6990 Special Topics in Insurance. 1-9 hours
INS 8113 Insurance Education (Consent of instructor). 3 hours
INS 8512 Risk Management Seminar (Consent of instructor). 2 hours

**International Business:**
IB 6103 International Business (Graduate standing in business). 3 hours

**Real Estate Finance:**
REF 6333 Real Estate Law (BL 2413 or consent of instructor) [Same as BL 4333/6333]. 3 hours

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**MANAGEMENT AND INFORMATION SYSTEMS**
Dr. Tim Barnett, Department Head
Dr. Rebecca Long, Graduate Coordinator, Ph.D. concentration in Management
Dr. Merrill Warkentin, Graduate Coordinator, Ph.D. concentration in Information Systems
Dr. Bob Otondo, Graduate Coordinator, M.S.I.S.
3103 McCool Hall
Box 9581
Mississippi State, MS 39762
Telephone: 662-325-3928
E-mail: gsb@business.msstate.edu

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

**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

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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
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 9013 General Topics in MIS Research (Graduate standing). 3 hours
BIS 9113 Management Information Systems (MIS) Seminar (BIS 8213, BIS 8313). 3 hours
BIS 9213 Advanced Topics in MIS Research (BIS 8213, BIS 8313, or consent of instructor). 3 hours
BIS 9313 Qualitative Research in MIS. 3 hours
BIS 9613 Info Security Research Design (Graduate standing). 3 hours

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

Marketing, Quantitative Analysis, and Business Law
Dr. Jason Lueg, Department Head
Dr. Nicole Ponder Lueg, Graduate Coordinator
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Mississippi State, MS 39762
Telephone: 662-325-3163
E-mail: mqabl@business.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

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
### DEGREE PROGRAMS

(T=thesis; NT=non-thesis)

[Offered: 1=Starkville, 2=Meridian, 5=Distance]

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<tr>
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<th>Degree(s)</th>
<th>Major Concentrations</th>
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<td><strong>DEPARTMENT OF COUNSELING &amp; EDUCATIONAL PSYCHOLOGY</strong></td>
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<td>Counselor Education; Concentrations in Clinical Mental Health (NT) [1, 2]; Rehabilitation (NT) [1]; Student Affairs (NT) [1]; School Counseling (NT) [1, 2]; College Counseling (NT) [1, 2]</td>
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<td><strong>Master of Science</strong></td>
<td>Educational Specialist</td>
<td>Major: Education; Concentrations in Counselor Education (T; NT) [1, 2]; School Psychology (T; NT) [1]</td>
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<tr>
<td><strong>Doctor of Philosophy</strong></td>
<td>Major: Educational Psychology; Concentrations in General Educational Psychology (NT) [1]; Psychometry (NT) [1]</td>
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<tr>
<td><strong>Doctor of Philosophy</strong></td>
<td>Doctor of Philosophy</td>
<td>Major: College/Postsecondary Student Counseling &amp; Personnel Services [1]</td>
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<tr>
<td><strong>Doctor of Philosophy</strong></td>
<td>Doctor of Philosophy</td>
<td>Major: Counselor Education/Student Counseling &amp; Guidance Services [1]</td>
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<td><strong>Doctor of Philosophy</strong></td>
<td>Major: Educational Psychology [1]</td>
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<tr>
<td><strong>DEPARTMENT OF CURRICULUM, INSTRUCTION, &amp; SPECIAL EDUCATION</strong></td>
<td>Master of Arts in Teaching-Middle Level</td>
<td>Major: Middle Level Alternate Route (NT) [5]</td>
</tr>
<tr>
<td><strong>Master of Arts in Teaching-Secondary</strong></td>
<td>Major: Secondary Teacher Alternate Route (NT) [1, 2, 5]</td>
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<tr>
<td><strong>Master of Science</strong></td>
<td>Major: Elementary Education; Concentrations in Early Childhood Education (NT) [1, 2]; Middle Level Education (NT) [1, 2]; General Elementary Educ (NT) [1, 2]</td>
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<td><strong>Master of Science</strong></td>
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<td><strong>Educational Specialist</strong></td>
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<tr>
<td><strong>Doctor of Philosophy</strong></td>
<td>Major: Curriculum &amp; Instruction; Concentrations in Early Childhood Education [1]; Elementary Education [1]; General Curriculum &amp; Instruction [1]; Reading Education [1]; Secondary Education [1]; Special Education [1]</td>
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<tr>
<td><strong>DEPARTMENT OF INSTRUCTIONAL SYSTEMS AND WORKFORCE DEVELOPMENT</strong></td>
<td>Master of Science</td>
<td>Major: Technology (T, NT) [1]</td>
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<td><strong>Veterans’ Certificate</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Department</th>
<th>Degree(s)</th>
<th>Major Concentrations</th>
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<tr>
<td><strong>DEPARTMENT OF KINESIOLOGY</strong></td>
<td>Master of Science</td>
<td>Major: Kinesiology; Concentrations in Exercise Physiology (T; NT) [1]; Sport Administration (T; NT) [1]; Sport Pedagogy (T; NT) [1]</td>
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<thead>
<tr>
<th>Department</th>
<th>Degree(s)</th>
<th>Major Concentrations</th>
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<tr>
<td><strong>DEPARTMENT OF LEADERSHIP &amp; FOUNDATIONS</strong></td>
<td>Master of Arts in Teaching</td>
<td>Major: Community College Education (NT) [1, 2, 5]</td>
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<tr>
<td><strong>Master of Science</strong></td>
<td>Major: School Administration (NT) [1, 2]</td>
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<tr>
<td><strong>Master of Science</strong></td>
<td>Major: Workforce Education Leadership (NT) [5]</td>
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**Educational Specialist**
Major: Education (NT) [1, 2]; Concentration in School Administration

**Doctor of Philosophy**
Major: Community College Leadership [5]

**Doctor of Philosophy**
Major: Elementary, Middle and Secondary Education Administration [1]

**COUNSELING & EDUCATIONAL PSYCHOLOGY**
Dr. Daniel Wong, Department Head
Dr. Charles Palmer, Graduate Coordinator (COE)
To Be Named, Graduate Coordinator (EPY)
508 Allen Hall
Box 9727
Mississippi State, MS 39762
Telephone: 662-325-3426
E-mail: dw767@msstate.edu
Website: http://www.cep.msstate.edu/

**Department Programs**
The Department of Counseling and Educational Psychology offers graduate programs in college counseling, clinical mental health 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, and student affairs are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The clinical mental health counseling program is also accredited by CACREP. The accreditation runs through March 2014. (Note: The clinical mental health counseling program is currently accredited under the 2001 standards for community counseling programs as a community counseling program. The CACREP 2009 standards combine the community counseling and mental health counseling standards into standards for clinical mental health counseling programs. The counseling program intends to seek accreditation for this program as a clinical mental health counseling program when it comes up for re-accreditation per CACREP guidelines.) The doctoral programs in counseling (PHCE) and in school counseling (PHSE) are also accredited CACREP. 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, clinical mental health counseling, rehabilitation counseling, school counseling, and student affairs in higher education.

b. The counseling concentration 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 3.00 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 concentration 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. Satisfactory results of the Graduate record Examination (GRE) taken with the past five years must be submitted.

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 will 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.

Master of Science
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 clinical mental health 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.

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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.
courses may be included in the student’s Ed.S. program of study. Students from an academic discipline that was not counseling in nature may be required to complete the equivalent of a master’s degree as part of the Ed.S. program of study. All Ed.S. students will successfully complete EPY 6214 Educational Psychology Statistics (or equivalent statistics course); COE 7000 Directed Individual Study or COE 8000 Thesis Research, and other additional courses required by the program from the concentration area. For additional information about the Ed.S. degree with a concentration in counseling, see the departmental handbook.

**Doctor of Philosophy**

**Program of Study/Completion Requirements**

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 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

a) counseling theory;

b) cultural foundations in counseling;

c) an environmental specialty course; and

d) at least one other counseling course.

**Counselor Education Program 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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<td>COE 6013</td>
<td>Facilitative Skills Development</td>
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<tr>
<td>COE 6023</td>
<td>Introduction to Counseling</td>
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<td>COE 6050</td>
<td>Seminar for Guidance Counselors</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>
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<tr>
<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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<td>Work Samples in Vocational Assessment</td>
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<td>Paraprofessionals in Student Affairs</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 6990</td>
<td>Special Topics in Counselor Education</td>
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<td>COE 7000</td>
<td>Directed Individual Study</td>
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<tr>
<td>COE 8000</td>
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<td>COE 8013</td>
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<td>COE 8043</td>
<td>Group Techniques and Procedures</td>
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<td>COE 8053</td>
<td>Practicum</td>
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<td>COE 8063</td>
<td>Research Techniques for Counselors</td>
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<td>COE 8073</td>
<td>Cultural Foundations in Counseling</td>
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<td>COE 8083</td>
<td>Assessment Techniques for Counselors</td>
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<td>COE 8093</td>
<td>Seminar in Counseling</td>
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<td>COE 8150</td>
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<td>COE 8163</td>
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<td>COE 8173</td>
<td>Counseling Gifted Students</td>
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<td>COE 8183</td>
<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>
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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>COE 8373</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</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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<tr>
<td>COE 8543</td>
<td>Legal Issues</td>
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COE 8553  Student Affairs in Higher Education. 3 hours
COE 8563  Introduction to Assessment in Student Affairs. 3 hours
COE 8573  College Counseling Services. 3 hours
COE 8623  Advanced Legal and Ethical Issues in Counseling. 3 hours
COE 8633  Psychosocial Rehabilitation. 3 hours
COE 8703  Principles of Clinical Mental Health Counseling. 3 hours
COE 8730  Internship (COE 8053). 1-9 hours
COE 8740  Supervised Academic Year Field Experience II: Internship (permission of department). 1-9 hours
COE 8750  Internship (permission of department). 1-9 hours
COE 8763  Counseling the Sexually Abused Client (COE 8023). 3 hours
COE 8773  Counseling Chemically Dependent Clients. 3 hours
COE 8783  Counseling the Chemically Dependent Family (COE 8773). 3 hours
COE 8803  Crisis Response in Counseling (COE 8013, COE 8023, or consent of instructor). 3 hours
COE 8813  Counseling Elderly Clients. 3 hours
COE 8903  School Counseling Services. 3 hours
COE 8990  Special Topics in Counselor Education. 1-9 hours
COE 8913  Counseling Children. 3 hours
COE 8923  Seminar in School Counseling (COE 8903). 3 hours
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, 8073 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

Educational Psychology Major
A Master of Science (M.S.) and a Doctor of Philosophy (Ph.D.) are offered in Educational Psychology. At the master's level, concentrations of study are in General Educational Psychology and Psychometry (a non-terminal degree). At the doctoral level, a Ph.D. in Educational Psychology is offered with a concentration in either General Educational Psychology or School Psychology. An Educational Specialist (Ed.S.) is available with a major in Education and a Concentration in School Psychology. Some teaching, research, and applied assistantships are available.

General Educational Psychology Concentration
The concentration in General Educational Psychology is 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.

The M.S. in Educational Psychology with a concentration in General Educational Psychology is a planned program consisting of 37-40 hours.

The Ph.D. degree in Educational Psychology with a concentration in General Educational Psychology requires a minimum of 120 hours of coursework beyond the baccalaureate degree.

Applications are due March 1 each year. For further information, write to Graduate Coordinator; Department of Counseling and Educational Psychology; PO Box 9727; Mississippi State, MS 39762.
School Psychology/Psychometry Concentration
The School Psychology/Psychometry concentrations are based on a scientist-practitioner model with a behavioral focus. In addition to training 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.

M.S. in Educational Psychology with Concentration in Psychometry
The M.S. in Educational Psychology with a concentration in Psychometry is a non-terminal degree designed to begin in the fall semester and be completed in three years. The concentration in psychometry leads to AA licensure from the Mississippi Department of Education. The degree is currently a 33-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.

Ph.D. in Educational Psychology with Concentration in School Psychology
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 Psychometry or obtain AA certification in Psychometry within the first three years in the program. For students entering the program with only an undergraduate degree, the Ph.D. concentration 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. For students entering the program with an advanced degree, the PhD. Program with a concentration in School Psychology will require a minimum of three years of formal coursework. In addition to required coursework, doctoral students in the School Psychology concentration are required to present a minimum of one refereed presentation at a regional or national conference, submit one manuscript to a refereed journal, or seek to publish one book chapter or formal test review. Doctoral School Psychology students must also pass three examinations including the PRAXIS II in School Psychology (i.e., students must obtain a passing score as outlined by the National Association of School Psychologists), doctoral written comprehensive exam, and doctoral oral comprehensive exam. Also, students are required to complete a 2000-hour internship (APA-accredited preferred).

The deadline for applications to all programs (PhD. and Ed.S.) is January 15. For further information, write to Graduate Coordinator, Department of Counseling and Educational Psychology; PO Box 9727; Mississippi State, MS 39762.

Admission Criteria for Educational Psychology Major
The following are admission criteria for admission to the Educational Psychology degree 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 the Educational Psychology graduate degree program must maintain continuous enrollment. A student who is not enrolled or is inactive for one calendar year must be re-screened for readmission to the department prior to re-enrollment in the University.

Prerequisite Undergraduate Courses for School Psychology and Psychometry Concentrations
Students should have the following undergraduate courses before entering the concentration in either School Psychology or Psychometry:

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 move through the Ed.S. or Ph.D. program with a concentration in School Psychology, they are required to complete the requirements for the M.S. degree in Psychometry and obtain an AA license in Psychometry from the Mississippi State Department of Education.

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.

**Master of Science**

**Program of Study/Completion Requirements**
The program of study for the M.S. in Educational Psychology includes the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPY 6214</td>
<td>Educational and Psychological Statistics</td>
</tr>
<tr>
<td>EPY 8253</td>
<td>Child and Adolescent Development and Psychopathology (or equivalent)</td>
</tr>
<tr>
<td>EPY 8263</td>
<td>Psychological Testing in Educational and Related Settings</td>
</tr>
<tr>
<td><strong>General Educational Psychology Concentration (27-30 hours)</strong></td>
<td></td>
</tr>
<tr>
<td>EPY 8293</td>
<td>Cognitive Development</td>
</tr>
<tr>
<td>EPY 8223</td>
<td>Psychological Foundations of Education</td>
</tr>
<tr>
<td>EDF 8363</td>
<td>Functions and Methods of Research in Education</td>
</tr>
<tr>
<td>Cognitive elective (3 hours)**</td>
<td></td>
</tr>
<tr>
<td>EPY electives (9-12 hours)**</td>
<td></td>
</tr>
<tr>
<td>Related electives (9-12 hours)**</td>
<td></td>
</tr>
<tr>
<td><strong>See advisor</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Psychometry Concentration (33 hours)</strong></td>
<td></td>
</tr>
<tr>
<td>EPY 6113</td>
<td>Behavioral and Cognitive Behavioral Intervention</td>
</tr>
<tr>
<td>EPY 6123</td>
<td>Applications in School Psychology</td>
</tr>
<tr>
<td>EPY 6133</td>
<td>Data-based Decision Making for Interventions in the School Setting</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>EPY 8493</td>
<td>Personality Assessment in Educational and Related Settings</td>
</tr>
<tr>
<td>EPY 8690</td>
<td>Supervised Experiences in School Psychology I (3 hours)</td>
</tr>
<tr>
<td>EPY 8703</td>
<td>Introduction to School Psychology</td>
</tr>
<tr>
<td>EPY 8723</td>
<td>Individual Assessment for Educational and Related Settings</td>
</tr>
<tr>
<td>EPY 8773</td>
<td>Academic Assessment and Interventions</td>
</tr>
<tr>
<td>EPY 8933</td>
<td>Integration of Intelligence/ Psychometric Instruments</td>
</tr>
<tr>
<td>EPY 9703</td>
<td>Contemporary Ethics, Legal, and Professional issues in School Psychology</td>
</tr>
<tr>
<td>EPY 9713</td>
<td>Advanced Consultation and Supervision in School Psychology</td>
</tr>
</tbody>
</table>

**Doctor of Philosophy**

**Program of Study/Completion Requirements**
The program of study for the Ph.D. in Educational Psychology includes the following major core and the Educational Psychology core. Students must take courses identified in their corresponding concentration.

**Major Core (58 hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPY 6214</td>
<td>Educational and Psychological Statistics</td>
</tr>
<tr>
<td>EPY 8113</td>
<td>History and Systems of Psychology</td>
</tr>
<tr>
<td>EPY 8214</td>
<td>Advanced Educational and Psychological Statistics</td>
</tr>
<tr>
<td>EPY 8253</td>
<td>Child and Adolescent Development and Psychopathology (or equivalent)</td>
</tr>
<tr>
<td>EPY 8263</td>
<td>Psychological Testing in Educational and Related Settings</td>
</tr>
<tr>
<td>EPY 8293</td>
<td>Cognitive Development (or equivalent)</td>
</tr>
<tr>
<td>EPY 8513</td>
<td>Psychometric Theory</td>
</tr>
<tr>
<td>EPY 9000</td>
<td>Dissertation (20 hours)</td>
</tr>
<tr>
<td>EPY 9213</td>
<td>Advanced Analysis in Educational Research</td>
</tr>
<tr>
<td>EPY 9723</td>
<td>Seminar in Contemporary School Psychology</td>
</tr>
<tr>
<td>EDF 9373</td>
<td>Educational Research Design</td>
</tr>
<tr>
<td>PSY 6403</td>
<td>Physiological Psychology (or equivalent)</td>
</tr>
<tr>
<td>PSY 8613</td>
<td>Advanced Social Psychology (or equivalent)</td>
</tr>
</tbody>
</table>

**General Educational Psychology Concentration (62 hours minimum)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EPY 8523</td>
<td>Psychology of the Gifted</td>
</tr>
<tr>
<td>EPY 8533</td>
<td>Practicum in Teaching Educational Psychology</td>
</tr>
<tr>
<td>EDF 6613</td>
<td>Seminar in Educational Psychology</td>
</tr>
<tr>
<td>EDF 8353</td>
<td>Principles of Curriculum Development</td>
</tr>
<tr>
<td>EPY 9313</td>
<td>Educational Evaluation Methods</td>
</tr>
<tr>
<td>EPY 8223</td>
<td>Psychology of Education Foundations</td>
</tr>
</tbody>
</table>
EDF 8363  Function and Methods of Research in Education
EPY 9263  Applied Research Seminar
EPY 7000  Directed Individual Study in Educational Psychology (3 hours)
PSY electives (6 hours)**
EDS elective (3 hours)**
Subspecialty electives (9 hours)**
Minor coursework (12-18 hours)++
**See advisor

School Psychology Concentration (84 hours)
EPY 6113  Behavioral and Cognitive Behavioral Interventions
EPY 6123  Applications in School Psychology
EPY 6133  Data-based Decision Making for Interventions in the School Setting
EPY 8123  Assessment of Infants, Toddlers, and Special Populations
EPY 8133  Crisis Prevention & Intervention in Schools and Related Settings
EPY 8493  Personality Assessment in Educational and Related Settings
EPY 8690  Supervised Experiences in School Psychology I (9 hours minimum)
EPY 8703  Introduction to School Psychology
EPY 8723  Individual Assessment for Educational and Related Settings
EPY 8763  Advanced Behavioral and Cognitive Behavioral Interventions
EPY 8773  Academic Assessment and Interventions
EPY 8790  Supervised Experiences in School Psychology II (9 hours minimum)
EPY 8890  School Experiences in School Psychology III (3 hours minimum)
EPY 8933  Integration of Intelligence/ Psychometric Instruments
EPY 9443  Single Subject Research Design
EPY 9703  Contemporary Ethics, Legal, and Professional issues in School Psychology
EPY 9713  Advanced Consultation and Supervision in School Psychology
EPY 9730  Doctoral Internship in School Psychology (18 credit hours)
COE 8073  Multicultural Foundations in Counseling (or equivalent)

Doctoral Minor in School Psychology
Choose one of the following:
EPY 8123  Assessment of Infants, Toddlers, and Special Populations
EPY 8890  Supervised Experiences in School Psychology III (3 hours minimum)

Educational Specialist Concentration in School Psychology
The Ed.S. degree with a major in education and concentration in School Psychology is accredited by the National Association of School Psychologists (NASP) and requires an additional 39 hours beyond the M.S. degree in Educational Psychology with a concentration in Psychometry. The Ed.S. leads to AAA educator’s licensure as a School Psychologist by the Mississippi 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 is designed to be completed in four years which typically requires the equivalent of one additional academic year of formal coursework beyond the M.S. in Educational Psychology with a concentration in Psychometry including additional practica and a minimum of a 1500-hour internship completed in the schools during the fourth year.

Ed.S. Courses (39 hours):
EPY 7000  Special Topics (3 hours minimum)
EPY 8763  Advanced Behavioral and Cognitive Behavioral Interventions
EPY 8690  Supervised Experiences in School Psychology I (3 hours minimum)
EPY 8790  Supervised Experiences in School Psychology II (6 hours minimum)
EPY 8780  Specialist Internship (12 hours)
EPY 9443  Single Subject Research Design
EPY 8133  Crisis Prevention & Intervention in Schools and Related Settings
COE 8073  Multicultural Foundations in Counseling (or equivalent)

Danish

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 and to obtain approval from the School Psychology faculty for enrolling in the School Psychology minor coursework. 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 dismissal from further consideration as a student with a minor in School Psychology.

**School Psychology 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>EPY 6113</td>
<td>Behavioral and Cognitive Behavioral Interventions</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 6133</td>
<td>Data-based Decision Making for Interventions in the School Setting (Not for EPY majors)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 6123</td>
<td>Applications of School Psychology (Permission of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 6214</td>
<td>Educational and Psychological Statistics</td>
<td>4 hours</td>
</tr>
<tr>
<td>EPY 8113</td>
<td>History and Systems of Psychology</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8123</td>
<td>Assessment of Infants, Toddlers, and Special Populations</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8133</td>
<td>Crisis Prevention and Intervention in Schools and Related Settings</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8214</td>
<td>Advanced Educational and Psychological Statistics</td>
<td>4 hours</td>
</tr>
<tr>
<td>EPY 8253</td>
<td>Child and Adolescent Development and Psychopathology</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8263</td>
<td>Psychological Testing in Educational and Related Settings</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8293</td>
<td>Cognitive Development (or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8473</td>
<td>Middle Level Assessment and Evaluation</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8493</td>
<td>Child Behavior and Personality Assessment</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8513</td>
<td>Psychometric Theory (EPY 6214, EPY 8214, EPY 8263 or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8550</td>
<td>Supervised Experience in School Psychology. (hours vary)</td>
<td></td>
</tr>
<tr>
<td>EPY 8690</td>
<td>Supervised Experiences in School Psychology I. May be repeated up to 4 times for credit. 1-6 hours</td>
<td></td>
</tr>
<tr>
<td>EPY 8703</td>
<td>School Psychology</td>
<td>3 hours</td>
</tr>
<tr>
<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>
</tr>
<tr>
<td>EPY 8763</td>
<td>Advanced Behavioral and Cognitive-Behavioral Interventions (EPY 8703)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8773</td>
<td>Assessment and Interventions for Academic Skills Deficits</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8780</td>
<td>Internship in School Psychology (Ed.S. level)</td>
<td>12 hours</td>
</tr>
<tr>
<td>EPY 8790</td>
<td>Supervised Experiences in School Psychology II. May be repeated up to 4 times for credit. 1-6 hours</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPY 8890</td>
<td>Supervised Experiences in School Psychology III. May be repeated up to 4 times for credit. 1-6 hours</td>
<td></td>
</tr>
<tr>
<td>EPY 8933</td>
<td>Integrated Psycho-Educational Assessment (EPY 8723)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8993</td>
<td>Special Topics in Educational Psychology</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
<td></td>
</tr>
<tr>
<td>EPY 9213</td>
<td>Advanced Analysis in Educational Research</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 9443</td>
<td>Single Subject Research Designs in Education [Same as EDF 9443]</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 9703</td>
<td>Contemporary, Legal, Ethical, and Professional Issues in School Psychology (permission of the instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 9713</td>
<td>Advanced Psychological Consultation and Supervision: Theory and Practice (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 9730</td>
<td>Internship in School Psychology (Doctoral Level)</td>
<td>18 hours</td>
</tr>
<tr>
<td>COE 8073</td>
<td>Cultural Foundations in Counseling</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDF 8363</td>
<td>Function and Methods of Research in Education</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDF 9373</td>
<td>Educational Research Design</td>
<td>3 hours</td>
</tr>
<tr>
<td>EDF 9443</td>
<td>Single Subject Research Designs in Education [Same as EPY 9443]</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSY 6403</td>
<td>Physiological Psychology (or other biology-based course)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PSY 8223</td>
<td>Systems and Theories of Psychology</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

**Educational Psychology 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>EPY 6033</td>
<td>Application of Learning Theories in Educational and Related Settings</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 6053</td>
<td>Psychology and Education of the Mentally Retarded</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 6073</td>
<td>Personality Adjustment in Educational and Related Settings</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 6113</td>
<td>Behavioral and Cognitive Behavioral Interventions</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 6214</td>
<td>Educational and Psychological statistics</td>
<td>4 hours</td>
</tr>
<tr>
<td>EPY 6313</td>
<td>Measurement and Evaluation</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 6990</td>
<td>Special Topics in Educational Psychology</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>EPY 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
</tr>
<tr>
<td>EPY 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>EPY 8214</td>
<td>Advanced Educational and Psychological Statistics (EPY 4214/6214 or equivalent)</td>
<td>4 hours</td>
</tr>
<tr>
<td>EPY 8223</td>
<td>Psychological Foundations of Education</td>
<td>3 hours</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Hours</td>
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</tr>
<tr>
<td>EPY 8253</td>
<td>Advanced Child and Adolescent Development and Psychopathology</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8263</td>
<td>Psychological Testing in Educational and Related Settings</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8293</td>
<td>Cognitive Development</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8473</td>
<td>Middle Level Assessment and Evaluation</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8493</td>
<td>Personality Assessment in Educational and Related Settings (EPY 8263 and EPY 8723 or consent of the instructor)</td>
<td>3 hours</td>
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<tr>
<td>EPY 8523</td>
<td>Psychology of the Gifted</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8533</td>
<td>Practicum in Teaching Educational Psychology (EPY 8243)</td>
<td>3 hours</td>
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<tr>
<td>EPY 8703</td>
<td>School Psychology</td>
<td>3 hours</td>
</tr>
<tr>
<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>
</tr>
<tr>
<td>EPY 8763</td>
<td>Seminar in Psychological Interventions in Educational and related Settings (EPY 8703)</td>
<td>3 hours</td>
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<tr>
<td>EPY 8773</td>
<td>Assessment and Interventions for Academic Skills Deficits</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8780</td>
<td>Internship in School Psychology (Consent of instructor)</td>
<td>3-6 hours</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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<td>EPY 8933</td>
<td>Interpretation of Intelligence/ Psychometric Instruments (EPY 8723)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 8990</td>
<td>Special Topics in Educational Psychology</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>EPY 9263</td>
<td>Applied Research Seminar (EPY 6214, EDF 8363, and EDF 9373)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 9723</td>
<td>Seminar in Contemporary School Psychology (approval of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
<td></td>
</tr>
<tr>
<td>EPY 9213</td>
<td>Advanced Analysis in Educational Research (EPY 4214/6214)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EPY 9313</td>
<td>Educational Evaluation Methods (EPY 8214 and EDF 9373 or equivalent coursework)</td>
<td>3 hours</td>
</tr>
<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>
</tr>
<tr>
<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>
</tr>
<tr>
<td>EPY 9730</td>
<td>Doctoral Internship in School Psychology (Consent of instructor)</td>
<td>3-6 hours</td>
</tr>
</tbody>
</table>

**CURRICULUM, INSTRUCTION, & SPECIAL EDUCATION**

**Dr. Devon Brenner, Department Head**
**Dr. Dana Franz, Graduate Coordinator**
310 Allen Hall
Box 9705
Mississippi State, MS 39762
Telephone: 662-325-3703
E-mail: tstevenson@colled.msstate.edu
Website: [http://www.cise.msstate.edu/](http://www.cise.msstate.edu/)

**Admission Criteria**

**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-Middle Level (MAT-M) and 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 Philosophy is offered in Curriculum and Instruction with concentrations in Early Childhood, Elementary Education, General Curriculum and Instruction, Reading Education, Secondary Education, and Special Education. 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, 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, if applicable); 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).

Master of Science in Elementary Education
This program of study requires a minimum of 36
semester hours of coursework beyond the bachelor’s
degree, including the following courses.
- EDF 8363 Function and Methods of Research in
  Education
- EDE 8313 Theory and Development of Early
  Childhood Education
- EDE 8623 Content Area Literacy
- EDE 8633 The Teaching of Writing
- EDE 8713 Educating Young Adolescents
- EDE 8733 Teaching Physical, Life and Earth
  Science in the Elementary/Middle
  School Classroom
- EDE 8763 Elementary and Middle Level
  Mathematics Education
- RDG 8713 Teaching Struggling Readers and
  Writers
A written comprehensive examination is required. Students choose a concentration in General
Education, Early Childhood Education, or Middle Level
Education.

The Early Childhood concentration requires the
following additional courses.

- EDE 8513 Curriculum and Program
  Developments in Early Childhood
  Education
- Any two courses of the following:
  - EDE 8523 Practicum: Language Arts and Literacy
    Development in Early Childhood
  - EDE 8533 Behavioral Experiences in Early
    Childhood Education
  - EDE 8463 Readings and Research in Children’s
    Literature
  - EDE 8543 Mathematics Experiences In Early
    Childhood Education

The Middle Level Education concentration requires 9
hours from the following courses.
- RDG 6113 Middle Level Literacy Development
  and Instruction
- EDE 8473 The Elementary Social Studies
  Curriculum
- EDS 8683 Dispositions and Reflective Practice in
  Teaching
- EDS 8243 Advanced Planning and Managing of
  Learning
- EDS 8653 Issues of Accountability in Schools
- EDS 8623 Principles of Effective Instruction in
  Secondary Schools
- RDG 8653 Teaching Reading in the Secondary
  Schools

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.

Master of Science in Secondary Education
This program 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
the following courses.
- EDS 8243 Advanced Planning and Managing of
  Learning
- EDS 8613 Middle and Secondary School
  Curriculum
- EDS 8663 Improving Instruction in Secondary
  Schools
- EDS 8653 Issues of Accountability in Schools
- EDF 8363 Function and Methods of Research in
  Education

3-12 hours of Education electives as approved by the
advisor from the following courses:
- EDS 8103 Advanced Methodologies in Middle
  and Secondary Education
- EDS 8633 Problems of Secondary Education
- EDS 8623 Principles of Effective Instruction in
  Secondary Schools
EDS 8683 Dispositions and Reflective Practice in Teaching
RDG 8593 Issues and Innovations in Reading
9-18 credit hours of required content courses selected with the 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.

**Master of Science in Special Education**
This program 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.

**Master of Arts in Teaching-Middle Level**
The M.A.T.M. program is an alternate route licensure program of study that consists of 36 semester hours of graduate-level coursework. It is designed for those who wish to prepare for a career as a middle-level teacher. In addition to the criteria for admission to a Master of Science degree program (with the exception of a teaching license), MATM candidates must pass the Praxis I and Praxis II Specialty Area Test required for middle-level licensure by the Mississippi Department of Education, possess either 21 hours in a single content area or pass the secondary education Praxis II Specialty Area test for a specific content area, and pass a certified background check.

Required courses include the following.
- EDE 8113 Middle Level Management and the Young Adolescent
- EDE 8123 Foundations for Teaching Middle Level Mathematics
- RDG 8113 Middle Level Literacy Instruction
- EPY 8473 Middle Level Assessment and Evaluation
- RDG 8123 Supporting the Middle Level Literacy Learner
- EDE 8133 Middle Level Internship I
- EDF 8553 Research in the Classroom
- EDE 8143 Middle Level Internship II
- RDG 8133 Middle Level Content Area Literacy Instruction
- EDE 8153 Professional Roles of the Middle Level Educator
- EDE 8163 Teaching Middle Level Mathematics Content OR
- 3 hours of a graduate-level diversity elective course

**Master of Arts in Teaching-Secondary**
The M.A.T.-S. program 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. MAT-S students must also pass a certified background check prior to beginning field experiences.

Required courses include the following.
- EDS 8243 Advanced Planning and Managing
- EPY 6313 Measurement and Evaluation
- 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
- EDX 8173 Special Education in the Regular Classroom
- EDS 8103 Advanced Methodologies in Middle and Secondary Schools OR
- TKT 6803 Integrating Technology for Meaningful Living

**Educational Specialist degree with a major in Education and concentration in Elementary or Secondary Education**
The program requires a minimum of 30 hours of coursework above the master’s degree including EPY 6214 Educational and Psychological Statistics and EDE/EDS 7000 and a comprehensive examination.

**Educational Specialist degree with a major in Education and concentration in Special Education**
This program requires a minimum of 31 hours of coursework including the following courses.
- EPY 6214 Educational and Psychological Statistics
- EDX 7000 Special Problem-Ed.S. Field Study
- EDE 8133 Readings and Research in Special Education
EDX 8123  Organization and Supervision of Special Education Programs. Specialist students must pass the Specialist-level written comprehensive examination.

**Doctor of Philosophy in Curriculum and Instruction**
The program requires a minimum of 90 semester hours of coursework beyond the bachelor's degree including the following courses.

EPY 8214  Advanced Educational and Psychological Statistics
EPY 9213  Advanced Analysis in Educational Research
EDF 8363  Functions and Methods of Research (may be taken in master’s work)
EDF 9373  Educational Research Design
EDF 9453  Introduction to Qualitative Research in Education

Choose one or two of the following:

EDF 9463  Qualitative Data Collection in Education
EDF 9473  Qualitative Data Analysis and Presentation in Education
EDF 9443  Single-Subject Research Designs for Education

Total Hours: 19-22

**Foundations**

One of the following:

EDF 8323  Comparative Education
EDF 8383  Issues in Education
EDF 8393  History of Education
EDF 9313  Philosophy of Education
EPY 8223  Psychological Foundations of Education

**Ethics**

PHI 8101  Case Studies in Scientific Research

**Major Area Coursework**

EDE/EDS/

EDX 7000  DIS with major professor
EDE/EDS/

EDX 9553  Teaching and Teacher Education
EDE/EDS/

EDX 9413  Practicum in College Teaching

EDE 8893 or

EDS 8643  Directed Readings in Teacher Education
OR

EDX 8133  Readings in Exceptional Education

EDE/EDS/

EDX 9221  Professional Practice in Teacher Education

Additional 24 hours of major area coursework. A student may include 12 hours in concentration area and/or 12 hours in a minor if a concentration and/or a minor are being sought. Concentrations include Elementary Education, Secondary Education, Special Education, Reading Education, Early Childhood Education, or General Curriculum and Instruction. At least two-thirds of the total hours of coursework on the plan of study, exclusive of dissertation hours, must be courses at the 8000 level or above.

Total Hours: 37

**Dissertation Coursework**—20 hours

Other requirements include demonstration of competence in the application of research and statistics through the research skill requirement; a written and oral preliminary examination; and a dissertation.

**Comprehensive Examinations**
The written comprehensive examinations for the Master of Science and Educational Specialist degrees 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 6 hours of completing their degree or are in their terminal semester, have an overall graduate GPA of 3.00, 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 for All Programs**
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. Any of the following or combination of the following will result in the dismissal of a student from a CISE graduate program: grades of less than B in more than 6 hours of coursework; a GPA below 3.00; 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.

**Completion Requirements for All Programs**
All graduate students must attend the CISE graduate orientation or complete the online orientation quiz. 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.

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](http://www.cise.msstate.edu)) and the College of Education Doctoral Student Handbook ([www.educ.msstate.edu](http://www.educ.msstate.edu)).

**Courses offered by the Department of Curriculum, Instruction, and special Education:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDE 6990</td>
<td>Special Topics in Elementary Education</td>
<td>1-9</td>
</tr>
<tr>
<td>EDE 7000</td>
<td>Directed Individual Study</td>
<td>1-6</td>
</tr>
<tr>
<td>EDE 8000</td>
<td>Thesis Research/Thesis</td>
<td>hours</td>
</tr>
<tr>
<td>EDE 8313</td>
<td>Theory and Development of Early Childhood Education</td>
<td>hours</td>
</tr>
<tr>
<td>EDE 8423</td>
<td>Elementary School Methods</td>
<td>hours</td>
</tr>
<tr>
<td>EDE 8433</td>
<td>The Elementary School Curriculum</td>
<td>hours</td>
</tr>
<tr>
<td>EDE 8443</td>
<td>Seminar in Elementary Education</td>
<td>hours</td>
</tr>
<tr>
<td>EDE 8463</td>
<td>Readings and Research in Children's Literature</td>
<td>hours</td>
</tr>
<tr>
<td>EDE 8473</td>
<td>The Elementary Social Studies Curriculum</td>
<td>hours</td>
</tr>
<tr>
<td>EDE 8513</td>
<td>Curriculum and Program Developments in Early Childhood Education</td>
<td>hours</td>
</tr>
<tr>
<td>EDE 8523</td>
<td>Practicum: Language Arts and Literacy Development in Early Childhood Education (EDE 4133, RDG 3113, RDG 3213, or the equivalent)</td>
<td>hours</td>
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<tr>
<td>EDE 8533</td>
<td>Behavioral Experiences in Early Childhood Education</td>
<td>hours</td>
</tr>
<tr>
<td>EDE 8543</td>
<td>Mathematics Experiences in Early Childhood Education</td>
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<tr>
<td>EDE 8623</td>
<td>Content Area Literacy</td>
<td>hours</td>
</tr>
<tr>
<td>EDE 8633</td>
<td>The Teaching of Writing</td>
<td>hours</td>
</tr>
<tr>
<td>EDE 8713</td>
<td>Educating Young Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>EDE 8733</td>
<td>Teaching Physical, Life and Earth Science in the Elementary/Middle School Classroom</td>
<td>3</td>
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<td>EDE 8763</td>
<td>Elementary and Middle Level Mathematics Education</td>
<td>3</td>
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<tr>
<td>EDE 8893</td>
<td>Directed Readings in Teacher Education (Same as EDS 8643)</td>
<td>3</td>
</tr>
<tr>
<td>EDE 8990</td>
<td>Special Topics in Elementary Education</td>
<td>1-9</td>
</tr>
<tr>
<td>EDE 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged</td>
<td>hours</td>
</tr>
<tr>
<td>EDE 9221</td>
<td>Professional Practice in Teacher Education [Same as EDX 9221 and EDS 9221]</td>
<td>1</td>
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<tr>
<td>EDE 9413</td>
<td>Practicum in College Teaching</td>
<td>hours</td>
</tr>
<tr>
<td>EDE 9420</td>
<td>Research Practicum in Early Childhood Education (EDE 8513, EDE 8523, EDE 8533, EDE 8543)</td>
<td>1-6</td>
</tr>
<tr>
<td>EDE 9553</td>
<td>Teaching and Teacher Education [Same as EDS 9553 and EDX 9553]</td>
<td>3</td>
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**Readings in Education:**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDG 6113</td>
<td>Middle Level Literacy Development and Instruction (RDG 4113)</td>
<td>3</td>
</tr>
<tr>
<td>RDG 6990</td>
<td>Special Topics in Readings</td>
<td>1-9</td>
</tr>
<tr>
<td>RDG 8113</td>
<td>Middle Level Literacy Instruction.</td>
<td>hours</td>
</tr>
<tr>
<td>RDG 8123</td>
<td>Supporting the Middle Level Literacy Learner</td>
<td>hours</td>
</tr>
<tr>
<td>RDG 8133</td>
<td>Middle Level Content Area Literacy Instruction</td>
<td>hours</td>
</tr>
<tr>
<td>RDG 8153</td>
<td>Psychology of Reading</td>
<td>hours</td>
</tr>
<tr>
<td>RDG 8453</td>
<td>Research in Reading</td>
<td>hours</td>
</tr>
<tr>
<td>RDG 8593</td>
<td>Issues and Innovations in Reading</td>
<td>hours</td>
</tr>
<tr>
<td>RDG 8653</td>
<td>Teaching Reading in the Secondary Schools</td>
<td>hours</td>
</tr>
<tr>
<td>RDG 8713</td>
<td>Teaching Struggling Readers and Writers.</td>
<td>hours</td>
</tr>
<tr>
<td>RDG 8990</td>
<td>Special Topics in Readings</td>
<td>1-9</td>
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**Middle-Level Education:**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EDE 8113</td>
<td>Middle Level Management and the Young Adolescent</td>
<td>3</td>
</tr>
<tr>
<td>EDE 8123</td>
<td>Foundations for Teaching Middle Level Mathematics</td>
<td>hours</td>
</tr>
<tr>
<td>EDE 8133</td>
<td>Middle Level Internship I (Admission to MAT-M, EDE 8113 and EPY 8473)</td>
<td>3</td>
</tr>
<tr>
<td>EDE 8143</td>
<td>Middle Level Internship II (Admission to MAT-M degree program, EDE 8113, EDE 8133, and EPY 8473)</td>
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<tr>
<td>EDE 8153</td>
<td>Professional Roles of the Middle Level Educator</td>
<td>hours</td>
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<tr>
<td>EDE 8163</td>
<td>Teaching Middle Level Mathematics Content</td>
<td>hours</td>
</tr>
<tr>
<td>EDE 8173</td>
<td>Teaching Middle Level Social Studies</td>
<td>hours</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
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<tr>
<td>------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>EDE 8183</td>
<td>Teaching Middle Level Science</td>
<td>3</td>
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<tr>
<td><strong>Secondary Education:</strong></td>
<td></td>
<td></td>
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<tr>
<td>EDS 6633</td>
<td>Methods of Teaching Mathematics (Admission to Teacher Education)</td>
<td>3</td>
</tr>
<tr>
<td>EDS 6643</td>
<td>Methods of Teaching Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>EDS 6653</td>
<td>Methods of Teaching Science</td>
<td>3</td>
</tr>
<tr>
<td>EDS 6663</td>
<td>Methods in Foreign Language Teaching</td>
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</tr>
<tr>
<td>EDS 6673</td>
<td>Methods of Teaching Language Arts</td>
<td>3</td>
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<tr>
<td>EDS 6683</td>
<td>Methods in Foreign Language Teaching</td>
<td>3</td>
</tr>
<tr>
<td>EDS 6990</td>
<td>Special Topics in Secondary Education</td>
<td>1-9</td>
</tr>
<tr>
<td>EDS 7000</td>
<td>Directed Individual Study</td>
<td>1-3</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 Methodologies in Middle and Secondary Education. 3 hours</td>
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<tr>
<td>EDS 8243</td>
<td>Advanced Planning and Managing of Learning. 3 hours</td>
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<td>EDS 8613</td>
<td>Middle and Secondary School Curriculum. 3 hours</td>
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<td>EDS 8623</td>
<td>Principles of Effective Instruction in Secondary Schools. 3 hours</td>
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<tr>
<td>EDS 8633</td>
<td>Problems of Secondary Education. 3 hours</td>
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<tr>
<td>EDS 8643</td>
<td>Directed Reading in Teacher Education (Same as EDE 8893). 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). 3 hours</td>
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<tr>
<td>EDS 8663</td>
<td>Improving Instruction in Secondary Schools. 3 hours</td>
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<td>EDS 8683</td>
<td>Dispositions and Reflective Practice in Teaching (EDS 8623 or permission of instructor). 3 hours</td>
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<td>EDS 8713</td>
<td>Curriculum Adjustments. 3 hours</td>
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<tr>
<td>EDS 886</td>
<td>Dimensions of Learning I (Admission to MATS program, EDS 8243, EPY 6313). 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). 6 hours</td>
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<td>EDS 8990</td>
<td>Special Topics in Secondary Education. 3 hours</td>
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<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>
<td>EDS 9221</td>
<td>Professional Practice in Teacher Education (Same as EDS 9221 and EDE 9221). 3 hours</td>
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</tr>
<tr>
<td>EDS 9413</td>
<td>Practicum in College Teaching. 3 hours</td>
<td></td>
</tr>
<tr>
<td>EDS 9553</td>
<td>Teaching and Teacher Education (Same as EDE 9553 and EDX 9553). 3 hours</td>
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</tr>
</tbody>
</table>

| **Special Education:**                           |                                                             |
| EDX 6113  | Diagnostic-Prescriptive Methods and Materials for Early Childhood Disabled. 3 hours |              |
| EDX 6123  | Diagnostic-Prescriptive Methods and Materials for Elementary Age Disabled. 3 hours |              |
| EDX 6133  | Diagnostic-Prescriptive Methods and Materials for Secondary Age Disabled [Same as TKT 6133 and COE 6133]. 3 hours |              |
| EDX 6353  | Assistive Technology in Special Education. 3 hours                          |              |
| EDX 6503  | Teaching the Severely and Profoundly Impaired Child. 3 hours                 |              |
| EDX 6603  | Children and Youth with Physical Handicaps/Multiple Disabilities. 3 hours    |              |
| EDX 6613  | Teaching Children and Youth with Physical/Multiple Disabilities. 3 hours      |              |
| EDX 6623  | Curricular and Mobility Adaptations for Physical/Multiple Disabilities. 3 hours |              |
| EDX 6953  | Introduction to Sign Language [Same as COE 4353/6353]. 3 hours              |              |
| EDX 6990  | Special Topics in Special Education. 1-9 hours                              |              |
| EDS 7000  | Directed Individual Study. 1-3 hours                                         |              |
| EDS 8000  | Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree |              |
| EDS 8103  | Advanced Contingency Management. 3 hours                                     |              |
| EDS 8123  | Organization and Supervision of Special Education. 3 hours                  |              |
| EDS 8133  | Readings and Research in Exceptional Education. 3 hours                     |              |
| EDS 8143  | Early Education for the Disabled. 3 hours                                    |              |
| EDS 8153  | Language Development—Assessment and Remediation. 3 hours                    |              |
| EDS 8163  | Teaching Strategies for the Gifted. 3 hours                                  |              |
| EDS 8173  | Special Education in the Regular Classroom. 3 hours                         |              |
| EDS 8183  | Seminar in Learning Disabilities (EDX 3203 or equivalent). 3 hours           |              |
| EDS 8203  | Practicum: Diagnosis of Special Education Populations. 3 hours               |              |
| EDS 8213  | Practicum: Remediation of Special Education Populations. 3 hours             |              |
| EDS 8223  | Supervision: Diagnosis of the Educationally Disabled Practicum. 3 hours      |              |
| EDS 8303  | Seminar in Mental Retardation. 3 hours                                       |              |
| EDS 8333  | Placement Services and Techniques [Same as COE 8923]. 3 hours                |              |
| EDS 8393  | Seminar in Education for the Emotionally Disabled (EDX8403). 3 hours        |              |
| EDS 8403  | Teaching the Emotionally Disabled. 3 hours                                   |              |

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INSTRUCTIONAL SYSTEMS AND WORKFORCE DEVELOPMENT

Dr. Connie M. 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 degree 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.

Master of Science
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**

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.

**Doctor of Philosophy**

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 in Education with 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 Philosophy in Instructional Systems and Workforce Development**

The Doctor of Philosophy in Instructional Systems and Workforce Development (ISWD) is located within the College of Education and is designed to provide students with knowledge of instructional technology, research design methodologies to conduct research, foundations of education, and postsecondary education.

A minimum of 90 semester hours of post-baccalaureate credit is necessary to meet the ISWD doctoral degree. In order for the program to reflect students’ content areas in research and foundation levels, students must take two required research and statistics courses and two required foundations courses from the Department of Instructional Systems and Workforce Development (ISWD). The hours taken in these required classes will serve to meet the requirements for Research, Foundations, and Postsecondary and will not be reflective of the 24-30 hours needed to complete the Technology requirements. Two-thirds or more of the hours on the doctoral program of study, exclusive of dissertation credits, must be in 8000-9000 level courses or their equivalent. Approved 7000 Directed Individual Study courses must count toward this requirement. Ordinarily no more than 6 semester hours of graduate credit earned in DIS courses or 6 semester hours of special problem courses may be included on the student’s approved program of study. No more than 9 semester hours of a combination of DIS and special problem courses may be included on the student’s approved program of study.

Research and Statistics Requirement ...............19 hours
Foundation Courses ........................................6 hours
Postsecondary................................................. 3 hours
Approved Technology electives* ..................24-30 hours

*Approved General Electives ...................... 12-18 hours
Dissertation .................................................. 20 hours

*A technology elective is any 6000-, 7000-, 8000-, or 9000-level course with a TKB/TKI/TKT prefix that is not included in the required courses. If a student takes more than the required number of courses in research, foundations, or postsecondary, those courses will be classified as an approved general elective.

Minor courses are optional.

All department requirements must be completed, and all College of Education requirement courses must be completed to satisfy degree requirements prior to graduation.

<table>
<thead>
<tr>
<th>CURRICULUM OUTLINE</th>
<th>Required Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research and Statistics Requirement:</td>
<td>19</td>
</tr>
<tr>
<td>*EPY 8214 Advanced Educational and Psychological Statistics. 4 hours</td>
<td></td>
</tr>
<tr>
<td>TKT 8243 Research Problems in Technology and Workforce Development. 3 hours</td>
<td></td>
</tr>
<tr>
<td>TKT 8713 Seminar in Industrial Research and Development. 3 hours</td>
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<tr>
<td>Select three from the following:</td>
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<tr>
<td>EPY 9213 Advanced Analysis of Educational Research. 3 hours</td>
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<tr>
<td>EDF 9373 Educational Research Design. 3 hours</td>
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<tr>
<td>EPY 9263 Applied Research Seminar. 3 hours</td>
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<tr>
<td>EDF 9443 Single-Subject Research Design for Education. 3 hours</td>
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<tr>
<td>EDF 9453 Introduction to Qualitative Research in Education. 3 hours</td>
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<tr>
<td>EDF 9463 Qualitative Data Collection. 3 hours</td>
<td></td>
</tr>
<tr>
<td>EDF 9473 Qualitative Data Analysis. 3 hours</td>
<td></td>
</tr>
<tr>
<td>*Prerequisite for this class is EPY 6214 Educational and Psychological Statistics or equivalent prerequisite. This prerequisite does not count toward the 90 hours for the Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Foundations Courses:</td>
<td>6</td>
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<tr>
<td>Select any two of the following:</td>
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<tr>
<td>TKT 9213 Foundations of Workforce/Technology Education and Adult Learning Theories. 3 hours</td>
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<tr>
<td>TKT 8273 Contemporary Issues in Curriculum Planning in ISWD. 3 hours</td>
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<tr>
<td><em>Approved Technology electives</em></td>
<td></td>
</tr>
<tr>
<td>*Approved General Electives</td>
<td></td>
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<tr>
<td>Dissertation</td>
<td>20 hours</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>TKT 6263</td>
<td>Issues of Diversity in Work and Educational Environments. 3 hours</td>
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<tr>
<td></td>
<td>Postsecondary Courses</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
</tr>
<tr>
<td></td>
<td>TKT 8263 Philosophy and Administration of Teaching Career and Technical Education. 3 hours</td>
</tr>
<tr>
<td></td>
<td>TKT 8213 Content and methods of Teaching Career and Technical Education. 3 hours</td>
</tr>
<tr>
<td></td>
<td>TKT 8253 Analysis of Workforce Programs and Survey Research. 3 hours</td>
</tr>
<tr>
<td></td>
<td>Approved Technology Electives – see advisor</td>
</tr>
<tr>
<td></td>
<td>Approved General Electives:</td>
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<td></td>
<td>See advisor for list of approved general electives</td>
</tr>
<tr>
<td></td>
<td>Dissertation:</td>
</tr>
<tr>
<td></td>
<td>TKT 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
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<tr>
<td></td>
<td>Total Hours</td>
</tr>
</tbody>
</table>

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

**Technology:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TKT 6073</td>
<td>Instructional Materials Development and Use in Vocational Education. 3 hours</td>
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</tr>
<tr>
<td>TKT 6103</td>
<td>Delivery of the Vocational-Technical Instructional Program. 3 hours</td>
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</tr>
<tr>
<td>TKT 6143</td>
<td>History and Philosophy of Career and Technical Education. 3 hours</td>
<td></td>
</tr>
<tr>
<td>TKT 6153</td>
<td>Methods of Teaching Economics/Business Pathways (Admission to teacher education for teacher education majors). 3 hours</td>
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<tr>
<td>TKT 6183</td>
<td>Methods of Teaching Career Pathways Experience. 3 hours</td>
<td></td>
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<tr>
<td>TKT 6213</td>
<td>Methods of Teaching Business Subjects. (TKE 4213/6213). 3 hours</td>
<td></td>
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<tr>
<td>TKT 6223</td>
<td>Management of the Vocational-Technical Learning Environment. 3 hours</td>
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<tr>
<td>TKT 6233</td>
<td>Design of the Vocational-Technical Instructional Program. 3 hours</td>
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<tr>
<td>TKT 6253</td>
<td>Evaluation and Measurement of Students in Vocational Education and Technology. 3 hours</td>
<td></td>
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<tr>
<td>TKT 6263</td>
<td>Diversity in Workforce and Educational Environments. 3 hours</td>
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</tr>
<tr>
<td>TKT 6314</td>
<td>Content and Methods of Teaching Technology Discovery. 4 hours</td>
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<tr>
<td>TKT 6323</td>
<td>Content and Methods of Teaching Computer Discovery. 3 hours</td>
<td></td>
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<tr>
<td>TKT 6333</td>
<td>Content and Methods of Teaching Career Discovery. 3 hours</td>
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<tr>
<td>TKT 6443</td>
<td>Design of Instructional Games and Simulations (TKT 4753/6753, or consent of instructor). 3 hours</td>
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<tr>
<td>TKT 6463</td>
<td>Methods of Teaching Technology in the Middle School (Admission to teacher education for teacher education majors and keyboarding proficiency using the touch method). 3 hours</td>
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<tr>
<td>TKT 6473</td>
<td>Methods of Teaching Online. 3 hours</td>
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<tr>
<td>TKT 6483</td>
<td>Methods of Teaching STEM in the Middle School. 3 hours</td>
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<tr>
<td>TKT 6713</td>
<td>Authoring for Instruction (TKT 1273 or consent of instructor). 3 hours</td>
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<tr>
<td>TKT 6733</td>
<td>Managing a Multimedia Learning Environment. 3 hours</td>
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<tr>
<td>TKT 6743</td>
<td>Desktop Publishing. 3 hours</td>
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<tr>
<td>TKT 6753</td>
<td>Presenting with Media. 3 hours</td>
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<tr>
<td>TKT 6763</td>
<td>Digital Tools for 21st Century Teaching and Learning (TKT 1273 or consent of instructor). 3 hours</td>
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<tr>
<td>TKT 6803</td>
<td>Integrating Technology for Meaningful Learning. 3 hours</td>
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<tr>
<td>TKT 6813</td>
<td>Introduction of Instructional Systems. 3 hours</td>
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<tr>
<td>TKT 6853</td>
<td>Philosophy and Principles of Vocational-Technical Instruction. 3 hours</td>
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<tr>
<td>TKT 6863</td>
<td>Methods of Teaching Information and Communication Technology II (Keyboarding proficiency using the touch method and TKT 4663/6463 or instructor's consent). 3 hours</td>
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<tr>
<td>TKT 6990</td>
<td>Special Topics in Technology Teacher Education. 1-9 hours</td>
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<tr>
<td>TKT 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<tr>
<td>TKT 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>TKT 8200</td>
<td>Internship in Career and Technology Education. 1-6 hours</td>
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<tr>
<td>TKT 8213</td>
<td>Content and Methods of Teaching in Career and Technology Education. 3 hours</td>
<td></td>
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<tr>
<td>TKT 8233</td>
<td>Analysis of Workforce Education Programs and Survey Research in Workforce Development. 3 hours</td>
<td></td>
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<tr>
<td>TKT 8243</td>
<td>Research Problems in Instructional Systems and Workforce Development. 3 hours</td>
<td></td>
</tr>
<tr>
<td>TKT 8263</td>
<td>Philosophy and Administration of Career and Technology Education. 3 hours</td>
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<tr>
<td>TKT 8273</td>
<td>Contemporary Issues in Curriculum Planning in ISWD. 3 hours</td>
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<tr>
<td>TKT 8703</td>
<td>Trends and Issues in Instructional Systems. 3 hours</td>
<td></td>
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</tbody>
</table>
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
TKI 6213 Survey of Energy Sources & Power Technology (3 semester hours of physical science or other physics & junior standing). 3 hours
TKI 6224 Quality Assurance (BQA 2113 & junior standing). 3 hours
TKI 6263 Manufacturing Technology & Processes (Senior standing). 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

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**Veterans’ Certificate Program**

Dr. Linda F. Cornelious
256 IED Building
Box 9730
Mississippi State, MS 39762
Telephone: 662-325-2281
E-mail: LCornelious@colled.msstate.edu

The Veterans’ Certificate Program, which is offered at the undergraduate and graduate levels, consists of 15 semester hours of coursework (3 hours prerequisite and 12 hours required core courses). The certificate is designed for anyone at any level who would like to serve veterans. Employees of colleges and universities, corporations, government at all levels, and other professionals who are interested in serving veterans should obtain this certificate.

As part of the University’s ongoing commitment to veterans, the certificate provides the knowledge, skills, and competencies that individuals will need to support veterans as they transition to civilian life.

The curriculum is designed to increase the capabilities of individuals within the federal and state governments, educational institutions, and private corporations who work with veterans’ issues. Individuals working in the educational benefits area will find this program of particular value. The attainment of the Veterans’ Certificate could be used as a precursor to position advancement within any governmental agency, federal or state, that deals with matters relevant to veterans.

<table>
<thead>
<tr>
<th>Curriculum</th>
<th>Required Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prerequisite Course:</strong></td>
<td></td>
</tr>
<tr>
<td>TKB 3133 Administrative Management and Procedures</td>
<td>3 hours</td>
</tr>
<tr>
<td><strong>Required Program Courses:</strong></td>
<td></td>
</tr>
<tr>
<td>TKT 4403/6403 Strategies for Campus Transition and Success for Veterans. 3 hours</td>
<td></td>
</tr>
<tr>
<td>TKT 4413/6413 Veterans’ Benefits and Certification-Policies and Procedures. 3 hours</td>
<td></td>
</tr>
<tr>
<td>TKT 4423/6423 History of Administration of Veterans’ Benefits. 3 hours</td>
<td></td>
</tr>
<tr>
<td>TKT 4433/6433 The Development of Veterans’ Benefits, Laws and Policies. 3 hours</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td>15</td>
</tr>
</tbody>
</table>
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

The following items are required in applying to the master’s degree programs in the Department of Kinesiology:

1. A completed MSU Graduate School application form.
2. Official transcripts from all institutions attended since high school.
3. Graduate Record Examination (GRE) General Test scores.
4. Three professional letters of recommendation, at least one of which should comment specifically about the applicant’s academic capabilities.
5. A written statement of purpose, which should reflect a strong sense of career direction and highlight the applicant’s qualifications, skills, and professional experience.

Admission to graduate programs in the Department of Kinesiology is a competitive process. Positions within the programs are limited, and more individuals may apply than are able to be accepted. Competitive applicants will have a GPA of 3.00 or better in their final 60 undergraduate hours as well as acceptable scores on the verbal, quantitative, and analytical sections of the GRE exam.

Declarations for application to master’s degree programs in the Department of Kinesiology are as follows:

Fall/Summer admission: March 1
Late application deadline for Fall: June 1
Spring admission: October 15

Applications are reviewed periodically each semester, and applicants should generally expect to receive a reply within 30 days of the application deadline. Because of the competitive nature of admissions, it is recommended that individuals apply as far in advance of a deadline as possible. Students who wait until the late application deadline to apply may find there are no remaining spaces available in the program.

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 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.

<table>
<thead>
<tr>
<th>Exercise Physiology Concentration (33 credit hours)</th>
<th>( \text{Sport Pedagogy Concentration (33 credit hours)} \)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Research Core</strong> (15 hours)</td>
<td><strong>Non-Thesis Option</strong></td>
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<tr>
<td>KI 8303 Research in Kinesiology</td>
<td>KI 8303 Research in Kinesiology</td>
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<tr>
<td>KI 8313 Interpretation of Data in Kinesiology</td>
<td>KI 8313 Interpretation of Data in Kinesiology</td>
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<tr>
<td>EP 8273 Laboratory Instrumentation</td>
<td>KI 7006 Directed Individual Study</td>
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<td><strong>Thesis Option</strong> (6 hours)</td>
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<tr>
<td>KI 8006 Thesis Research or</td>
<td></td>
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<tr>
<td><strong>Non-Thesis Option</strong> (6 hours)</td>
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<tr>
<td>KI 7006 Directed Individual Study</td>
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<tr>
<td><strong>Exercise Physiology Core</strong> (9 hours)</td>
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<tr>
<td>EP 8243 Cardiorespiratory Exercise Physiology</td>
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<tr>
<td>EP 8263 Exercise Biochemistry</td>
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<tr>
<td>EP 8283 Environmental Exercise Physiology</td>
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<tr>
<td><strong>Exercise Physiology Tracks</strong> (9 hours)</td>
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<tr>
<td>Clinical Exercise Physiology (Choose 3)</td>
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<tr>
<td>EP 8433 Psychological Aspects of Exercise</td>
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<tr>
<td>EP 8443 Neuromuscular Mechanisms in Exercise Strength and Conditioning (Choose 3)</td>
<td>EP 6153 Training Techniques for Exercise and Sport</td>
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<td>EP 6153 Training Techniques for Exercise and Sport</td>
<td>EP 8253 Doping and Supplement Use in Sport</td>
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<tr>
<td>EP 8203 Psychological Aspects of Sport</td>
<td>EP 8203 Psychological Aspects of Sport</td>
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<tr>
<td>EP 8453 Biomechanics of Human Movement</td>
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<tr>
<th>Sport Pedagogy Concentration (33 credit hours)</th>
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<tbody>
<tr>
<td><strong>Research Core</strong> (12 hours)</td>
</tr>
<tr>
<td>KI 8303 Research in Kinesiology</td>
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<tr>
<td>KI 8313 Interpretation of Data in Kinesiology</td>
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<tr>
<td>I 8006 Thesis</td>
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<tr>
<td><strong>Sport Pedagogy Core</strong> (12 hours)</td>
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<tr>
<td>PE 8103 Developing Coaching Expertise</td>
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<tr>
<td>PE 8163 Seminar in Physical Education</td>
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<tr>
<td>SS 8883 Ethical Issues in Sport</td>
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<tr>
<td>PE 8203 Psychological Aspects of Sport</td>
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<tr>
<td><strong>Electives</strong> (Choose 3)</td>
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<tr>
<td>PE 6153 Training Techniques for Exercise and Sport</td>
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<td>EP 8253 Doping and Supplement Use in Sports</td>
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<td>SS 8213 Funding of Sport</td>
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<td>SS 8803 Sport Law</td>
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<td>EP 8453 Biomechanics of Human Movement</td>
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<tr>
<th>Sport Administration Concentration (33 credit hours)</th>
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<tbody>
<tr>
<td><strong>Core</strong> (18 hours)</td>
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<tr>
<td>SS 8123 Sport Management</td>
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<tr>
<td>SS 8803 Sport Law</td>
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<tr>
<td>SS 8823 Sport Sponsorships</td>
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<tr>
<td>SS 8883 Ethical Issues in Sport</td>
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<tr>
<td>KI 8303 Research in Kinesiology</td>
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<tr>
<td>KI 8313 Interpretation of Data in Kinesiology</td>
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<tr>
<td><strong>Electives</strong> (9-12 hours)</td>
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<tr>
<td>Graduate-level courses subject to approval of graduate advisor.</td>
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<tr>
<th>Concluding Options (3-6 hours)</th>
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<tbody>
<tr>
<td>Option 1: KI 8006 Thesis</td>
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<tr>
<td>Option 2: KI 8713 Internship</td>
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</table>
**Graduate Courses**—Course prerequisites are noted in parentheses.

EP 6113  Fitness Programs and Testing Procedures (EP 3304). 3 hours
EP 6153  Training Techniques for Exercise and Sport (EP 3304). 3 hours
EP 8243  Cardiorespiratory Exercise Physiology (EP 3304). 3 hours
EP 8253  Doping and Supplement Use in Sport (PE 3304 or equivalent, consent of instructor). 3 hours
EP 8273  Laboratory Instrumentation (EP 3304). 3 hours
EP 8283  Environmental Exercise Physiology (EP 3304). 3 hours
EP 8323  Science and Practice of Cardiopulmonary Rehabilitation. 3 hours
EP 8433  Psychological Aspects of Exercise (EP 3304 or equivalent). 3 hours
EP 8443  Neuromuscular Mechanisms in Exercise (EP 3304 or equivalent). 3 hours
EP 8453  Biomechanics of Human Movement (PE 4283 or equivalent). 3 hours
KI 6990  Special Topics in Physical Education. 1-9 hours
KI 7000  Directed Individual Study. 1-6 hours
KI 8000  Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
KI 8303  Research in Kinesiology. 3 hours
KI 8313  Interpretation of Data in Kinesiology. 3 hours
KI 8710  Internship (Consent of department head). 1-9 hours
KI 8990  Special Topics in Physical Education. 1-9 hours
PE 6163  Principles and Methods of Secondary School Health and Physical Education (senior or graduate standing). 3 hours
PE 6883  School Health Education (admission to teacher education). 3 hours
PE 8103  Developing Coaching Expertise. 3 hours
PE 8163  Seminar in Physical Education. 3 hours
SS 6403  Gender & Sport [Same as GS 4403/6403]. 3 hours
SS 8123  Sport Management. 3 hours
SS 8203  Funding of Sport. 3 hours
SS 8823  Sport Sponsorships. 3 hours
SS 8833  Event and Facility Management. 3 hours
SS 8883  Ethical Issues in Sport. 3 hours

**LEADERSHIP AND FOUNDATIONS**

Dr. David Morse, Interim Department Head
To Be Announced, Graduate Coordinator
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Mississippi State, MS 39762
Telephone: 662-325-0969
E-mail: dmorse@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 in School Administration 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 October 1 for spring and March 1 for summer or fall. No applications are accepted after these deadlines for the respective admission semesters.

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 may require 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 application 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.

**General Admission Requirements:**

**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 admission requirements: *Doctoral degree* – demonstrated interest in the mission of community colleges, résumé, writing sample, and interview; *Master of Arts in Teaching in Community College Education* – indication of teaching specialty (e.g., history) in purpose statement.

**Degree Programs in School Leadership**

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 admission requirements: *Master’s and Educational Specialist degrees* – copy of valid teacher’s license, evidence of a minimum of three years teaching experience, résumé, portfolio, and interview; *Doctoral degree* – résumé and interview

**COMMUNITY COLLEGE PROGRAMS**

**M.A.T. in Community College Education**
The Master of Arts in Teaching in Community College Education is an interdisciplinary, distance learning degree program designed to prepare professionals for teaching in a community college setting. 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 an internship experience. 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. The program is offered through the Center for Distance Education.

**Admission Criteria**—To be eligible for admission to the program, the applicant must hold a bachelor’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: (a) grade point average (GPA) of 2.75 on a 4.00 scale on the last half of the bachelor’s degree, (b) GRE score results, (c) three letters of reference, and (d) indication of teaching specialty (e.g., history) in the purpose statement.

**Required Courses:** 33 credit hours

**Core Courses:** (9 credit hours)
- CCL 8113 Community College History/Philosophy. 3 hours
- CCL 8313 Community College Instructional Assessment. 3 hours
- CL 8173 Community College Teaching and Learning. 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)
All courses should have the same prefix.

**Internship Course:** (3 credit hours)
- CCL 8243 Internship in Community College Teaching

**M.S. in Workforce Education Leadership**
The Master of Science in Workforce Education Leadership is a distance learning program designed to prepare professionals for employment in workforce education in postsecondary educational institutions and social services entities, advancing the knowledge base of workforce preparation, workforce development education, and professional development. The program is offered through the Center for Distance Education.

**Admission Criteria**—To be eligible for admission to the program, the applicant must hold a bachelor’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 college and/or workforce issues, and demonstrate academic proficiency based on the following indicators: (a) grade point average (GPA) of 2.75 on a 4.00 scale on the last half of the bachelor’s degree, (b) GRE score results, (c) three letters of reference, and (d) purpose statement.

**Required Courses:** 30 credit hours

**Core Courses:** 15 credit hours
- CCL 8113 History and Philosophy of the Community College. 3 hours
- CCL 8343 Community Development and Resources. 3 hours
- CCL 8133 Leadership Theory and Practice in the Community College. 3 hours
- CCL 8153 Human Resources Administration. 3 hours
- CCL 8143 Program Planning and Development. 3 hours

**Interdisciplinary Courses:** 9 credit hours
- AIS 8523 Teaching Out-of-School Groups. 3 hours
- Any two TKT courses at the 6000 level or above. 6 hours

**Research Course:** 3 credit hours
- EDF 8363 Functions and Methods of Research in Education. 3 hours

**Internship:** 3 credit hours
- CCL 8223 Internship in Workforce Education Leadership. 3 hours

**Ph.D. in Community College Leadership**
The Ph.D. degree program in Community College Leadership is designed to prepare professionals for leadership positions in community colleges. The degree program is designed to prepare the next
generation of community college leaders. The program consists of core courses of study in leading and managing in the community college, interdisciplinary courses in a rural context, and courses in research and statistics. The program is offered through the Center for Distance Education.

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: (a) grade point average (GPA) of 3.40 on a 4.00 scale for all graduate-level credit hours completed; (b) GRE score results; (c) writing sample; (d) three letters of reference; (e) structured interview; and (f) current résumé.

Required Courses: 76-79 credit hours
Core Courses: 24 credit hours
CCL 8113 History and Philosophy of the Community College. 3 hours OR CCL 8373 Community College Curriculum Improvement. 3 hours OR CCL 8363 Community College Activities Administration. 3 hours OR CCL 8123 Community College Finance and Budgeting. 3 hours OR CCL 8233 Community College Legal Issues. 3 hours OR CCL 8333 Organization and Administration of the Community College. 3 hours OR CCL 8283 Leadership in Community College Administration. 3 hours OR CCL 8353 Applications of Organizational Theory and Behavior in Community College Leadership. 3 hours OR CCL 8383 Ethical Decision Making in Community College Administration. 3 hours
EDA 8323 Educational Facilities Design. 3 hours

Interdisciplinary Courses: 18 credit hours
PPA 9613 Rural Government Administration I. 3 hours
PPA 9623 Rural Government Administration II. 3 hours
AEC 6313 Introduction to Regional Economics. 3 hours
AEC 6333 Applied Regional Economics. 3 hours
AEC 8713 Rural Community and Economic Development. 3 hours
PPA 8733 Public Program Evaluation. 3 hours

Research Courses: 14 credit hours
EPY 6214 Educational and Psychological Statistics. 4 hours
EPY 8214 Advanced Educational and Psychological Statistics. 4 hours
EDF 9373 Educational Research Design. 3 hours
EDF 9453 Introduction to Qualitative Research in Education. 3 hours

In addition to successfully completing at least four applied research courses, students are expected to demonstrate competency in research skills in one of two ways: (a) submit a research paper to a peer reviewed journal, or (b) present a research paper at an annual meeting of a regional or national association conference/meeting.

Dissertation Research: 20 credit hours
EDA 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

Additional Requirements: 3 credit hours
CCL 8213 Internship in Community College Leadership (required for students lacking community college work experience). 3 hours

SCHOOL LEADERSHIP PROGRAMS
M.S. in School Administration
The program for the Master of Science (M.S.) degree in School Administration prepares educators for careers in school administration. Program candidates learn to analyze data, evaluate instruction, improve student achievement, make strategic decisions, creatively solve problems, involve families in their children’s education, empower others, supervise staff, promote change, establish positive school culture, understand budgets, and manage resources. The program is nationally accredited by the Educational Leadership Constituent Council (ELCC) and approved for administrative licensure by the Mississippi Department of Education. Graduates are prepared for a wide range of professional positions in education, including principal, assistant principal, coordinator, and director.

Admission Criteria—To be eligible for admission to the program, the applicant must hold a bachelor’s degree from an accredited institution, meet the basic requirements specified for graduate students at Mississippi State University, demonstrate interest in the mission of P-12 schools, and demonstrate academic proficiency based on the following indicators: (a) grade point average (GPA) of 2.75 on a 4.00 scale on the last half of the bachelor’s degree; (b) GRE score results; (c) three letters of reference; (d) statement of purpose; (e) copy of valid teacher’s license; (f) evidence of three years of teaching experience, (g) current résumé; (h) letter of endorsement from current school administrator; (i) portfolio; and (j) interview.
Required Courses—33 hours
First summer:
EDL 8413: School Legal and Ethical Perspectives. 3 hours
EDL 8423: School Leadership. 3 hours
EDL 8433: Using Data for School Improvement. 3 hours
Fall:
EDL 8513: School Leadership Internship I. 3 hours
EDL 8523: Educating Diverse Learners. 3 hours
Spring:
EDL 8613: School Leadership Internship II. 3 hours
EDL 8623: Leading Curriculum, Instruction, and Assessment. 3 hours
EDL 8633: Human Resources Leadership for Schools. 3 hours
Second summer:
EDL 8713: School Business and Facilities. 3 hours
EDL 8723: Leadership for Positive School Culture. 3 hours
A Culminating Assessment is also held during the second summer term.

Ed.S. in Education/School Administration
The Educational Specialist degree with a major in Education and concentration in School Administration requires a minimum of 30 hours of coursework above the Master’s degree including EPY 6214 and EDL 7000 and a comprehensive examination for individuals. The program is designed for individuals who hold a Master’s degree in School Administration and administrator license. Graduates are prepared for professional positions in education including school district level positions.

If the student does not hold administrator licensure, the program of study for the Educational Specialist degree with a major in Education and concentration in School Administration requires a minimum of 30 hours of coursework above the Master’s degree including EPY 6214 and EDL 7000. The program is designed to provide administrative licensure by the Mississippi Department of Education. Graduates are prepared for a wide range of professional positions in education, including principal, assistant principal, coordinator, and director.

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 P-12 schools, and demonstrate academic proficiency based on the following indicators: (a) grade point average (GPA) of 3.20 on a 4.00 scale on the master’s degree; (b) GRE score results; (c) three letters of reference; (d) statement of purpose; (e) copy of valid teacher’s license; (f) evidence of three years of teaching experience; (g) résumé; (h) letter of recommendation from a school administrator; (i) portfolio; and (j) interview.

Ph.D. in Elementary, Middle, and Secondary Education Administration
The program for the Doctor of Philosophy (Ph.D.) degree in Elementary, Middle, and Secondary Education Administration is designed for experienced professional educators interested in leading and managing schools, school districts, educational associations, foundations, and state departments of education. Program candidates learn state-of-the-art executive skills, applied theory, ethical decision making and problem solving, organizational structure and function, systems analysis, strategic planning, curriculum assessment and improvement, human resource management, school law, school finance, facility design, and public relations.

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 P-12 schools, and demonstrate academic proficiency based on the following indicators: (a) grade point average (GPA) of 3.40 on a 4.00 scale on previous graduate degree(s); (b) GRE score results; (c) three letters of reference; (d) statement of purpose; (e) evidence of three years of teaching experience, (f) résumé; and (g) interview.

Required Courses: 73-76 credit hours
Core Courses: 24 credit hours
Leading and Managing in Educational Environments
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.
Applied Research: 17 credit hours
The student must select and successfully complete a minimum of five 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 9463 Qualitative Data Collection. 3 hours
- EDF 9473 Qualitative Data Analysis. 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 peer reviewed journal, or (b) present a research paper at an annual meeting of a regional or national association conference/meeting.

Educational Foundations: 12 credit hours

- 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

Dissertation Research: 20 credit hours

EDA 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree.

Additional Courses may be taken: 3-6 credit hours

- EDA 8210 Internship in Supervision and Administration (required for students lacking school district level work experience). 3 hours
- EDA 8323 Educational Facilities Design. 3 hours

Additional Requirements:
All graduate students submitting a thesis or dissertation Must attend the thesis/dissertation workshop conducted by Mitchell Memorial 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.)
# JAMES WORTH BAGLEY COLLEGE OF ENGINEERING

Dr. Achille Messac, Dean  
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## Degree and Certificate Programs

(T=thesis; NT=non-thesis)  
[Offered: 1=Starkville, 2=Meridian, S=Distance]

### Department of Aerospace Engineering

**Master of Science**  
Major: Aerospace Engineering (T; NT) [1, S]

**Doctor of Philosophy**  
Major: Engineering; Concentration in Aerospace Engineering [1, S]

### Department of Agricultural & Biological Engineering

**Master of Science**  
Major: Biological Engineering (T) [1]

**Master of Science**  
Major: Biomedical Engineering (T) [1]

**Doctor of Philosophy**  
Major: Engineering; Concentration in Biomedical Engineering [1]

**Doctor of Philosophy**  
Major: Biomedical Engineering [1]

### Dave C. Swalm School of Chemical Engineering

**Master of Science**  
Major: Chemical Engineering (T; NT) [1]

**Doctor of Philosophy**  
Major: Engineering; Concentration in Chemical Engineering [1]

### Department of Civil & Environmental Engineering

**Master of Science**  
Major: Civil Engineering (T; NT) [1, S]

**Doctor of Philosophy**  
Major: Engineering; Concentration in Civil Engineering [1, S]

### Department of Computer Science & Engineering

**Master of Science**  
Major: Computer Science (T; NT) [1, S]

**Doctor of Philosophy**  
Major: Computer Science [1]

### Department of Electrical & Computer Engineering

**Master of Science**  
Major: Electrical and Computer Engineering (T; NT) [1, S]

**Doctor of Philosophy**  
Major: Electrical and Computer Engineering [1, S]

### Department of Industrial & Systems Engineering

**Master of Science**  
Major: Industrial Engineering (T; NT) [1, S]

**Doctor of Philosophy**  
Major: Industrial and Systems Engineering [1, S]

### Department of Mechanical Engineering

**Master of Science**  
Major: Mechanical Engineering (T; NT) [1, S]

**Doctor of Philosophy**  
Major: Engineering; Concentration in Mechanical Engineering [1, S]

### Interdisciplinary Curricula

**Master of Engineering**  
Major: Engineering (NT) [5]

**Master of Science**  
Major: Computational Engineering (T, NT) [1]

**Doctor of Philosophy**  
Major: Computational Engineering [1]

**Doctor of Philosophy**  
Major: Engineering; Concentration in Applied Physics [1]
GRADUATE CERTIFICATE PROGRAMS

Automotive Engineering
Computational Biology
Geospatial and Remote Sensing
Information Assurance Professional Certificate
Manufacturing
Materials Engineering
Six Sigma

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 (80th) engineering graduate programs and is listed in the U.S. News & World Report—America’s Best Graduate Schools. BCoE Learning programs are ranked 12th nationally by USNWR. In fall 2012, graduate enrollment totaled 622 (280 M.S.; 342 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 35th 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 study 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

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E-mail: grad-coord@ae.msstate.edu
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The Department of Aerospace Engineering offers graduate study leading to the degrees of Master of Science and Doctor of Philosophy. Distance-learning options for these degrees are also available (see http://www.bcoelearning.msstate.edu). 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 the Center for Advanced Vehicular Systems (CAVS) where members of this faculty provide primary leadership in computational simulations. Other department facilities include a low speed wind tunnel, a blow-down supersonic wind tunnel, and a fatigue and fracture testing 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.

Master of Science
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.

Doctor of Philosophy
Program of Study/Completion 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.

- ASE 6013 Directed Project in ASE. 3 hours
- ASE 6133 Automatic Control of Aerospace Vehicles (ASE 4123). 3 hours
- ASE 6153 Advanced Performance (ASE 2113 or consent of instructor). 3 hours
- ASE 6163 Introduction to Flight Test Engineering (ASE 3313, ASE 4123). 3 hours
- ASE 6233 Structural Dynamics (EM 3413). 3 hours
- ASE 6333 Helicopter Aerodynamics and Performance (Consent of instructor). 3 hours
- ASE 6423 Introduction to Computational Fluid Dynamics (Consent of instructor). 3 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ASE 6433</td>
<td>Fundamentals of Numerical Grid Generation (Consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ASE 6553</td>
<td>Engineering Design Optimization (Consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ASE 6813</td>
<td>Advanced Orbital Mechanics (ASE 3813)</td>
<td>3 hours</td>
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<tr>
<td>ASE 6833</td>
<td>Space Mission Operations (ASE 3813 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ASE 6990</td>
<td>Special Topics in Aerospace Engineering.</td>
<td>1-9 hours</td>
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<tr>
<td>ASE 7000</td>
<td>Directed Individual Study.</td>
<td>1-6 hours</td>
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<tr>
<td>ASE 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours</td>
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<tr>
<td>ASE 8313</td>
<td>Advanced Compressible Aerodynamics I (ASE 4343 or equivalent)</td>
<td>3 hours</td>
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<td>ASE 8323</td>
<td>Advanced Compressible Aerodynamics II (ASE 8313)</td>
<td>3 hours</td>
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<tr>
<td>ASE 8343</td>
<td>Incompressible Viscous Laminar Flow (Consent of instructor)</td>
<td>3 hours</td>
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<td>ASE 8353</td>
<td>Turbulent Flow (ASE 8343)</td>
<td>3 hours</td>
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<tr>
<td>ASE 8363</td>
<td>Computational Heat Transfer (Consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ASE 8413</td>
<td>Computational Fluid Dynamics I (Consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ASE 8423</td>
<td>Computational Fluid Dynamics II (ASE 8413 or equivalent)</td>
<td>3 hours</td>
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<tr>
<td>ASE 8713</td>
<td>Space Environments and Effects (ASE 4533 and ASE 4543 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ASE 8843</td>
<td>Advanced Mission Design (ASE 4813/6813 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ASE 8853</td>
<td>Statistical Orbit Determination (ASE 4813/6813 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>ASE 8863</td>
<td>Optimal Control of Dynamic Systems (ASE 4123 or ECE 4913/6913 or equivalent)</td>
<td>3 hours</td>
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<tr>
<td>ASE 8883</td>
<td>Spacecraft Dynamics, Design and Operations (Graduate standing in College of Engineering)</td>
<td>3 hours</td>
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<tr>
<td>ASE 8990</td>
<td>Special Topics in Aerospace Engineering.</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>ASE 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
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</tbody>
</table>

**AGRICULTURAL AND BIOLOGICAL ENGINEERING**

Dr. Jonathan Pote, Department Head
Dr. Rajkumar Prabhu, 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.

Biological Engineering:
- ABE 6111 Biological Engineering Principles Laboratory (Co-requisite: ABE 4812). 1 hour
- ABE 6122 Biological Engineering Practices Laboratory. 2 hours
- ABE 6413 Biological Control Systems (ABE 4312, MA 2913). 3 hours
- ABE 6423 Bioinstrumentation II (ABE 3413 or graduate standing). 3 hours
- ABE 6453 Cotton Ginning Systems and Management. 3 hours
- ABE 6483 Introduction to Remote Sensing Technology (Graduate standing or consent of instructor). 3 hours
- ABE 6513 Dynamics of Aging (ZO 1023). 3 hours
- ABE 6523 Biomedical Materials (ABE 3813 or CHE 3413 or ME 3403). 3 hours
- ABE 6533 Rehabilitation Engineering (Senior standing in College of Engineering). 3 hours
- ABE 6613 Biomechanics (EM 2413 and ME 3403). 3 hours
- ABE 6624 Experimental Methods in Materials Research (CHE 3413 or ABE 3813). 3 hours
- ABE 6723 Tissue Engineering and Regeneration (ABE 3813). 3 hours
- ABE 6803 Biosystems Simulation. 3 hours
- ABE 6821 Practices of Engineering Design (ABE 4812). 1 hour
- ABE 6844 Sustainable Communities [Same as LA 4844/6844]. 3 hours
- ABE 6863 Seed Conditioning Machinery (Same as AGN 6233). 3 hours
- ABE 6990 Special Topics in Agricultural and Biological Engineering. 1-9 hours
- ABE 7000 Directed Individual Study. 1-6 hours.
- ABE 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
- ABE 8314 Corrosion of Biomedical Implants. 4 hours
- ABE 8501-8531 Journal Reviews in Biomedical Engineering. 3 hours
- ABE 8723 Cellular and Tissue Biomechanics. 3 hours. 3 hours
- ABE 8801 Clinical Experience for Biomedical Engineering (Graduate standing in the Biomedical Engineering Program and consent of instructor). 1 hour
- ABE 8911 Agricultural and Biological Engineering Seminar. 1 hour
- ABE 8921 Agricultural and Biological Engineering Seminar. 1 hour
- ABE 8931 Agricultural and Biological Engineering Seminar. 1 hour
ABE 8990 Special Topics in Agricultural and Biological Engineering. 1-9 hours
ABE 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

Agricultural Engineering Technology:
ABE 6163 Agricultural Machinery Management (ABE 1863). 3 hours
ABE 6263 Soil and Water Management (ABE 2873). 3 hours
ABE 6383 Building Construction (EG 1143). 3 hours
ABE 6473 Electrical Application (ABE 1863). 3 hours

Graduate study is offered in the College of Agriculture and Life Sciences 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. See program information in the College of Agriculture and Life Sciences section of this publication.

**BIOMEDICAL ENGINEERING**
An Interdisciplinary Curriculum
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Dr. Steven Elder, Graduate Coordinator
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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; submit GRE scores; receive a positive recommendation by the coordinating committee of the biomedical engineering graduate program; 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. 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.

**Master of Science**
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).

**Doctor of Philosophy**
Program of Study/Completion Requirements
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.

Selected Courses for the Biomedical Engineering Graduate Program:

- ABE 6312 Biosystem Environments II. 2 hours
- ABE 6423 Bioinstrumentation II. 3 hours
- ABE 6513 Dynamics of Aging. 3 hours
- ABE 6523 Biomedical Materials. 3 hours
- ABE 6624 Experimental Methods in Materials Research. 4 hours
- ABE 6613 Biomechanics. 3 hours
- ABE 6633 Rehabilitation Engineering. 3 hours
- ABE 6803 Biosystems Simulation. 3 hours
- ABE 6990 Special Topics in Agricultural and Biological Engineering. 1-9 hours
- ABE 7000 Directed Individual Study. 1-6 hours
- ABE 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
- ABE 8990 Special Topics in Agricultural and Biological Engineering. 1-9 hours
- ABE 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree
- ABE 8314 Corrosion of Biomedical Implants. 4 hours
- ABE 8324 Failure Analysis of Metallic Medical Implants. 4 hours
- ABE 8501 Journal Reviews in Biomedical Engineering. 1 hour
- ABE 8801 Clinical Experience for Biomedical Engineering. 1 hour
- ABE 8911 Agricultural and Biological Engineering Seminar. 1 hour
- BIO 6514 Animal Physiology. 4 hours
- BIO 6114 Cellular Physiology. 4 hours
- BIO 8104 Experimental Molecular Biology. 4 hours
- BIO 8133 Advanced Cell Biology. 3 hours
- CHE 6323 High Polymer Theory and Practice. 3 hours
- CME 8113 Computational Geometry. 3 hours
- CPE 8813 Digital Image Processing. 3 hours
- CSE 6633 Artificial Intelligence. 3 hours
- CSE 8663 Neural Computing. 3 hours
- ECE 6723 Microprocessors. 3 hours
- EM 6213 Advanced Mechanics of Materials. 3 hours
- EPP 8223 Scanning Electron Microscopy. 1 hour
- IE 6113 Human Factors Engineering. 3 hours
- IE 6133 Ergonomics. 3 hours
- MA 8203 Foundations of Applied Math I. 3 hours
- MA 8213 Foundations of Applied Math II. 3 hours
- ME 8243 Finite Elements in Mechanical Engineering. 3 hours
- ST 8214 Design and Analysis of Experiments. 4 hours

\(^a\) All M.S. students must take these courses
All Ph.D. students must take these courses plus one graduate-level mathematics course or approved.

Or BIO 6114 Cellular Physiology

CHEMICAL ENGINEERING
Dave C. Swalm School of Chemical Engineering
Dr. Jason M. Keith, Department Director
Dr. Keisha B. Walters, 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.

Doctor of Philosophy
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.

Master of Science
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)
  o CHE 8113 Advanced Chemical Engineering Thermodynamics (Fall)
  o CHE 8123 Chemical Kinetics and Dynamics (Spring)
  o CHE 8223 Advanced Process Computations (Fall)
  o CHE 8523 Advanced Transport Phenomena (Spring)
  o 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.
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. thesis students must prepare and successfully defend his/her thesis before a committee composed of faculty members of the University. All non-thesis MS students 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 prepare and successfully defend her/his dissertation before a committee composed of faculty members of the University.

**Graduate Courses**—Course prerequisites are noted in parentheses. A grade of C or better is required in any prerequisite course with CHE as a designation.

- **CHE 6113** Chemical Reactor Design (Grade of C or better in both CHE 3123 and MA 3253). 3 hours
- **CHE 6134** Process Design (IE 3913, grade of C or better in the following: CHE 3123, CHE 3213, and CHE 3223). 4 hours
- **CHE 6143** Advanced Polymeric and Multicomponent (Junior standing or greater; CHE 3413, ME 3403, EM 4133 or equivalent materials course). 3 hours
- **CHE 6153** Introduction to Particle and Crystallization Technology (Junior standing or greater; CHE 2114, MA 1723, PH 2213, and/or consent of instructor). 3 hours
- **CHE 6163** Nanotechnology in Chemical Applications (Junior standing or greater, CH1223 or equivalent, PH 2213, MA 1723, and/or consent of instructor). 3 hours
- **CHE 6193** Automotive Engineering. 3 hours
- **CHE 6223** Process Instrumentation and Control (CHE 4113, C or better in CHE 3223). 3 hours
- **CHE 6233** Chemical Plant Design (CHE 4113, CHE 4134). 3 hours
- **CHE 6313** Transport Phenomena (Grade of C or better in the following courses: CHE 3213, MA 3253, and either CHE 3203 or EM 3313). 3 hours
- **CHE 6423** Fundamentals of Industrial Corrosion (CHE 3413). 3 hours
- **CHE 6513** Pulp and Paper Manufacturing Processes (CHE 2114, consent of instructor). 3 hours
- **CHE 6613** Air Pollution Control Design: Theory and Practice (Consent of instructor). 3 hours
- **CHE 6624** Experimental Methods in Materials Research (CHE 3413 or ABE 3813 or ME 3403 or consent of instructor). 4 hours
- **CHE 6633** Chemical Process Safety (CHE 2114, CHE 3203 and MA 1723). 3 hours
- **CHE 6673** Industrial Microbiology. 3 hours
- **CHE 6683** Fundamentals of Biofuels Production. 3 hours
- **CHE 6703** Gas Hydrates (Consent of instructor). 3 hours
- **CHE 6990** Special Topics in Chemical Engineering. 3 hours
- **CHE 7000** Directed Individual Study. 1-6 hours
- **CHE 8000** Thesis Research/Theis. 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 Computations (CHE 3223). 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

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**CIVIL AND ENVIRONMENTAL ENGINEERING**

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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
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 as computed for courses that comprise the last two academic years of the degree. Graduates of programs not accredited by the Engineering Accreditation Commission of ABET (www.ABET.org) 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. An applicant with a bachelor’s degree major other than civil and 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. To be removed from contingent status, the student must successfully complete remedial prerequisite courses as defined by the graduate committee with a grade of B or higher on each course.

Provisional Admission—A student accepted with a GPA of 2.70, or greater, of a 4.00 scale on the last two academic years of the program may be admitted with 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.

Master of Science
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). 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 with at least 9 hours at the upper graduate level
- a minimum of half the coursework on the program of study at the 8000 level or above;
- all graduate core curriculum requirements within the student’s sub-discipline; and
- a minimum of 6 hours of CE 8000 (Thesis Research/Thesis) in addition to the minimum 24 hours of coursework.

The program of study is also limited to:
- a maximum of 6 hours of coursework in business management;
- a maximum of 6 hours of CE 7000 as part of the minimum 24 hours of coursework;
- a maximum of 9 hours of graduate coursework received as an unclassified graduate student; and
- a maximum of 9 hours of graduate credit transferred from other institutions.

Students are expected to receive grades of B or better in each course 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:

- a minimum of 18 hours of coursework in the department with at least 12 hours at the upper graduate level;
- a minimum of 15 hours of coursework on the program of study at the 8000 level or above; and
- all graduate core curriculum requirements within the student’s sub-discipline.

The program of study is also limited to:

- a maximum of 6 hours of coursework in business management;
- a maximum of 6 hours of CE 7000 as part of the minimum 33 hours of coursework;
- a maximum of 9 hours of graduate coursework received as an unclassified graduate student; and
- a maximum of 9 hours of graduate credit transferred from other institutions.

Students are expected to receive grades of B or better in each course used to satisfy the minimum graduate credit coursework requirements.

**Doctor of Philosophy**

**Program of Study/Completion Requirements**

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). A minimum of 20 hours of dissertation research is included. 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 their dismissal and justification for the action in a written letter of notification. To appeal a dismissal from the department’s graduate program, the student must submit within thirty days of the date of the letter of notification a written petition for reconsideration memorandum to the department’s graduate coordinator providing justification as to why the dismissal should be reversed.

**Core and Prerequisite Courses**—Course prerequisites are noted in parentheses.

- CE 6103 Pavement Materials and Design (Grade of C or better in CE 3313 and CE 3413). 3 hours
- CE 6133 Geometric Design of Highways (Grade of C or better in CE 2213 and CE 3113). 3 hours
- CE 6143 Traffic Engineering (Grade of C or better in CE 3113, credit in ST 3123). 3 hours
- CE 6153 Freight Transportation System Analysis (CE 3113 and consent of instructor). 3 hours
- CE 6163 Urban Transportation Planning (CE 3113 and consent of instructor). 3 hours
- CE 6183 Waterborne Transportation (Grade of C or better in CE 3113). 3 hours
- CE 6233 Control Surveys. (Grade of C or better in CE 2213). 3 hours
- CE 6243 Land Surveys (Grade of C or better in CE 2213). 3 hours
- CE 6313 Advanced Concrete Materials (Grade of C or better in CE 3313). 3 hours
- CE 6433 Foundations (Grade of C or better in CE 3413). 3 hours
- CE 6513 Engineering Hydrology (Grade of C or better in CE 3803 or consent of instructor). 3 hours
- CE 6523 Open Channel Hydraulics (Grade of C or better in CE 3813 or consent of instructor). 3 hours
- CE 6533 Computational Methods in Water Resources Engineering (Grade of C or better in CE 3813). 3 hours
- CE 6543 Advanced Reinforced Concrete (Grade of C or better in CE 4601 and CE 4633). 3 hours
- CE 6563 Sedimentation Engineering (Grade of C or better in CE 4523/6523). 3 hours
- CE 6583 Stream Reconnaissance. 3 hours
- CE 6703 Construction Engineering and Management (Consent of instructor). 3 hours
- CE 6733 Construction Engineering Equipment and Methods. 3 hours
- CE 6743 Analysis and Mitigation of Conflicts, Claims, and Disputes. 3 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites/Eligibility Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 6843</td>
<td>Environmental Engineering Chemistry</td>
<td>(Grade of C or better in CE 3803 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>CE 6863</td>
<td>Water and Wastewater Engineering (CE 3813 with grade of C or better)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 6873</td>
<td>Water and Wastewater Engineering (Grade of C or better in CE 3803)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 6883</td>
<td>Engineered Environmental Systems (CE 3503 and CE 3803 with a grade of C or better)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 6893</td>
<td>Hazardous Waste Management (Consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>CE 6903</td>
<td>Civil Engineering Comprehensive (Graduation semester)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 6913</td>
<td>Matrix of Analysis of Structures (Grade of C or better in CE 3603, or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 6923</td>
<td>Structural Dynamics (Grade of C or better in CE 3603, or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 6963</td>
<td>Design of Steel Structures (Grade of C or better in CE 4953)</td>
<td>3 hours</td>
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<tr>
<td>CE 6973</td>
<td>Design of Concrete Structures (Grade of C or better in CE 4953)</td>
<td>3 hours</td>
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<tr>
<td>CE 6983</td>
<td>Engineering of Wood Structures (Grade of C or better in CE 3603)</td>
<td>3 hours</td>
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<tr>
<td>CE 6993</td>
<td>Prestressed Concrete Structures (Grade of C or better in CE 4953)</td>
<td>3 hours</td>
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<tr>
<td>CE 6990</td>
<td>Special Topics in Civil Engineering</td>
<td></td>
</tr>
<tr>
<td>CE 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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</tr>
<tr>
<td>CE 8000</td>
<td>Thesis Research/Thesis. Credit hours to be arranged; minimum of 6 hours required for degree</td>
<td></td>
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<tr>
<td>CE 8133</td>
<td>Traffic Flow Theory (Grade of C or better in CE 4143/6143 or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 8143</td>
<td>Traffic Simulations and Advanced Traffic Management (CE 4143/6143 or one computer programming related course)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 8163</td>
<td>Public Transportation (CE 4153/6153 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 8203</td>
<td>Finite Element Modeling in CEE (EM 4123/6123 and consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 8303</td>
<td>Material Characterization (CE 3413 and CE 3313 or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 8313</td>
<td>Materials Science and Durability of Concrete (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 8323</td>
<td>Inelasticity (EM 8113 and EM 8203). 3 hours</td>
<td></td>
</tr>
<tr>
<td>CE 8333</td>
<td>Advanced Pavement Materials (CE 3413 and CE 3313 or equivalent). 3 hours</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 8343</td>
<td>Advanced Pavement Materials (CE 3413 and CE 3313, or equivalent). 3 hours</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 8413</td>
<td>Advanced Geotechnical Site Characterization (Consent of instructor). 3 hours</td>
<td></td>
</tr>
</tbody>
</table>
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)
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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 and receive a positive recommendation from the Computational Engineering screening committee. 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 at the end of a term, the student will be placed on “probation” and will be given one semester to earn a
cumulative grade point average of 3.00 or greater. If at the end of the probationary term the student’s cumulative grade point average (in any of the three categories above) is less than 3.00, the student’s program of study will be terminated immediately. If the student enrolls in the summer term, it will count as one term.

Should a student earn a second grade less than a C, the student’s program of study will be terminated immediately. Should a student who is beyond his/her second period of study not have a major advisor and supervisory committee, the student will be placed on probation and given one semester to form a committee. Should the student not be able to form a committee, his/her program of study will be terminated. A student may appeal termination of his/her study to the Computational Engineering Supervisory Committee.

**Graduate 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:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASE 6423</td>
<td>Introduction to Computational Fluid Dynamics (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ASE 6433</td>
<td>Fundamentals of Numerical Grid Generation (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ASE 6553</td>
<td>Engineering Design Optimization (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ASE 8363</td>
<td>Computational Heat Transfer (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ASE 8413</td>
<td>Computational Fluid Dynamics I (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ASE 8423</td>
<td>Computational Fluid Dynamics II (ASE 8413 or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 6663</td>
<td>Matrix Methods of Structural Analysis (CE 4603/6603 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 8683</td>
<td>Finite Element Analysis (CE 4663/6663)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CHE 8113</td>
<td>Advanced Chemical Engineering Thermodynamics (CHE 3123 and CHE 4113)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CHE 8123</td>
<td>Chemical Kinetics and Dynamics (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CHE 8223</td>
<td>Advanced Process Computations (CHE 3223)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CHE 8523</td>
<td>Advanced Transport Phenomena (Consent of instructor)</td>
<td>3 hours</td>
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</table>

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EM 6213</td>
<td>Advanced Mechanics of Materials (EM 3213)</td>
<td>3 hours</td>
</tr>
<tr>
<td>EM 8203</td>
<td>Applied Elasticity</td>
<td>3 hours</td>
</tr>
<tr>
<td>IE 6113</td>
<td>Human Factors Engineering</td>
<td>3 hours</td>
</tr>
<tr>
<td>IE 6123</td>
<td>Psychology of Human Computer Interface (IE 4113/6113 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>IE 6713</td>
<td>Operation Research I (CSE 1213 or IE 4613)</td>
<td>3 hours</td>
</tr>
<tr>
<td>IE 6733</td>
<td>Linear Programming I (MA 3113)</td>
<td>3 hours</td>
</tr>
<tr>
<td>IE 6753</td>
<td>Systems Engineering and Analysis (IE 4613)</td>
<td>3 hours</td>
</tr>
<tr>
<td>IE 6773</td>
<td>System Simulation I (Grade of C or better in IE 4613 and IE 4934)</td>
<td>3 hours</td>
</tr>
<tr>
<td>IE 8153</td>
<td>Cognitive Engineering</td>
<td>3 hours</td>
</tr>
<tr>
<td>IE 8723</td>
<td>Operation Research II (IE 4713/6713)</td>
<td>3 hours</td>
</tr>
<tr>
<td>IE 8743</td>
<td>Nonlinear Programming I (IE 4733 or MA 4733)</td>
<td>3 hours</td>
</tr>
<tr>
<td>IE 8753</td>
<td>Dynamic Programming (MA 2733 and IE 4613)</td>
<td>3 hours</td>
</tr>
<tr>
<td>IE 8773</td>
<td>System Simulation II (IE 4773/6773 or CSE 4023/6023)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 8243</td>
<td>Finite Elements in Mechanical Engineering (ME 4403 and EM 3213)</td>
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<tr>
<td>ME 8223</td>
<td>Inelasticity (EM 8113 and EM 8203)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 8813</td>
<td>Viscous Flow I</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 8823</td>
<td>Viscous Flow II (ME 8813 or equivalent)</td>
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</tr>
<tr>
<td>ME 8843</td>
<td>Unstructured Grid Technology (ASE 8413)</td>
<td>3 hours</td>
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<tr>
<td>PH 6213</td>
<td>Intermediate Mechanics (PH 1133 or 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 and MA 2733)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6413</td>
<td>Thermal Physics (PH 3613 and MA 2743)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6433</td>
<td>Computational Physics (PH 3613 and MA 3253)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6713</td>
<td>Intro Quantum Mechanics (PH 3613 and MA 3253)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 6813</td>
<td>Intro Solid State Physics (PH 3613)</td>
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<tr>
<td>PH 8213</td>
<td>Mechanics (Consent of instructor)</td>
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<tr>
<td>PH 8313</td>
<td>Electromagnetic Theory (PH 4333/6333 or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PH 8513</td>
<td>Statistical Mechanics (PH 4713 and PH 4413)</td>
<td>3 hours</td>
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<tr>
<td>PH 8743</td>
<td>Quantum Mechanics I (PH 4723/6723 and MA 3313)</td>
<td>3 hours</td>
</tr>
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</table>

**High Performance Computing:**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 8113</td>
<td>Computational Geometry (Consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
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</tr>
<tr>
<td>CSE 6163</td>
<td>Designing Parallel Algorithms (CSE 3324 or CSE 4733/6733 with grade of C or better)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 6214</td>
<td>Software Engineering (CSE 2383 with grade of C or better)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 6233</td>
<td>Software Architecture and Design Paradigms (CSE 4214/6214 with a grade of C or better)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 6283</td>
<td>Software Testing and Quality Assurance (CSE 4214/6214 with a grade of C or better)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 6753</td>
<td>Foundations in Computation (CSE 1213 or CSE 1233 or CSE 1273 or CSE 1284 with a grade of C or better or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 6833</td>
<td>Introduction to Analysis of Algorithms (CSE 2383, CSE 2813, and MA 2733, all with a grade of C or better)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 8263</td>
<td>Software Verification and Validation (CSE 3813 and either CSE 4214/6214 or CSE 8253)</td>
<td>3 hours</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>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 8733</td>
<td>Advanced Systems Programming (CSE 4733/6733).</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 8833</td>
<td>Algorithms (CSE 4833/6833).</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 8843</td>
<td>Complexity of Sequential and Parallel Algorithms (CSE 4833/6833).</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 9133</td>
<td>Topics in High Performance Computing (Consent of Instructor).</td>
<td>3 hours</td>
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<tr>
<td>ECE 6713</td>
<td>Computer Architecture (ECE 3724 with a grade of C or better).</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 8063</td>
<td>Parallel Computing Architectures I ECE 4713/6713 and CSE 4113/6113.</td>
<td>3 hours</td>
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**Numerical Mathematics:**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 6313</td>
<td>Numerical Analysis I (CSE 1213 or equivalent, MA 3113 and MA 2743).</td>
<td>3 hours</td>
</tr>
<tr>
<td>MA 6323</td>
<td>Numerical Analysis II (CSE 1213 or equivalent, MA 3113 and MA 3253).</td>
<td>3 hours</td>
</tr>
<tr>
<td>MA 8203</td>
<td>Foundations of Applied Mathematics I (MA 3113, MA 3253, or consent of instructor).</td>
<td>3 hours</td>
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<tr>
<td>MA 8213</td>
<td>Foundations of Applied Mathematics II (MA 8203).</td>
<td>3 hours</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 hours</td>
</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>
</tr>
<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>
</tbody>
</table>

**Graphics and Visualization:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 6413</td>
<td>Principles of Computer Graphics (MA 3113, and grade of C or better in CSE 2383).</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 8413</td>
<td>Visualization (CSE 4413/6413).</td>
<td>3 hours</td>
</tr>
<tr>
<td>CSE 8433</td>
<td>Advanced Computer Graphics (CSE 4413/6413).</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>
</tbody>
</table>

**Special Topics, Individual Study, Thesis and Dissertation Research:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</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>
<td></td>
</tr>
<tr>
<td>CME 8990</td>
<td>Special Topics in Computational Engineering.</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>CME 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>

**Master of Science Completion Requirements**

Both a thesis (research) option and a non-thesis (project) 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 non-thesis degree option, successful completion of at least 33 credit hours of graduate coursework and a project are required. No more than
3 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.

Doctor of Philosophy Completion Requirements
The Doctor of Philosophy in Computational Engineering, in addition to the coursework and research hours, includes a comprehensive examination, a dissertation, and dissertation defense. Each candidate for the doctoral degree must conduct research and in their dissertation defense on that research 1) demonstrate a mastery of the techniques of research and 2) make 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).

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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 for 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. The department's core research areas are artificial intelligence, computational science, graphics, human centered computing, software engineering and systems. These core competencies support research applications in areas such as bioinformatics, visualization, computer security and forensics, human-computer interactions and high performance computing. 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 applicable international students)
- 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 a Document of Support Form and associated documentation, which are typically submitted after approval for admission.

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 [link](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 contingent admission. To achieve regular admission status, the student must complete all remaining prerequisites with a grade of B or better in each course.

Undergraduate Prerequisite Courses for the Master’s Degree

The prerequisite courses required of all Master’s students are the following and their prerequisites:

- CSE 2383 Data Structures and Analysis of Algorithms
- MA 2733 Calculus III
- ECE 3724 Microprocessors
- CSE 3813 Introduction to Formal Languages and Automata
- CSE 4713/6713 Programming Languages
- CSE 4733/6733 Operating Systems I
- CSE 4833/6833 Introduction to 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 Principles of 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 B.S./M.S. Program Admission Requirements**
The 5-Year B.S./M.S. 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.

- During the senior year, the student will submit a normal admission application package for the M.S. degree, including GRE scores.

- 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 (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.
   c. At least three of the following six Fundamental Areas courses:
      - CSE 6153 Data Communications and Computer Networks
CSE 6163  Designing Parallel Algorithms
CSE 6214  Introduction to Software Engineering
CSE 6413  Principles of Computer Graphics
CSE 6503  Database Management Systems
CSE 6633  Artificial Intelligence

A student who has taken any of these six courses for undergraduate credit may use the undergraduate course to meet the graduate fundamental areas requirement and substitute another graduate-level course approved by the student’s Graduate Committee.

d. one departmental seminar (1 credit hour) CSE 8011.

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.

At the time that the student takes the qualifying examination, the graduate faculty will conduct a review of the student’s status in the program. This review will include, as a minimum, the following:

- performance on the qualifying examination
- progress and performance in courses
- possible serious impediments to further progress toward the doctorate

Such a review could result in binding recommendations from the graduate faculty or strong recommendations that the student address a problem within a certain time frame or could even result in dismissal from the program.

Minor in Computer Science

Master’s Degree—The Graduate Council requires that a student who wishes to earn a minor in computer science in a master’s degree program complete at least 9 semester hours of computer science graduate credit, not to include CSE 6613. In addition, the Department of Computer Science and Engineering requires that the following requirements be satisfied:

- At least 3 semester hours must be at the full graduate (8000) level.
- At least 6 semester hours must be in one of the research focus areas, or theory.
- CSE 2383 Data Structures or CSE 6753 Computation Fundamentals or equivalent must have been completed by the student. This required background may have been completed during undergraduate study. MSE 6753 may count toward the minor.
- The student must pass a comprehensive examination over minor coursework, as determined by the minor professor. This may be in conjunction with an examination for the primary degree program.

Ph.D. Degree—The Graduate Council requires that a student who wishes to earn a minor in computer science in a Ph.D. degree program complete at least 12 semester hours of computer science graduate credit, not to include CSE6613. In addition, the Department of Computer Science and Engineering requires that the following requirements be satisfied:

- At least 3 semester hours must be at the full graduate (8000) level.
- At least 6 semester hours must be in one of the research focus areas, or theory.
- CSE 2383 Data Structures or CSE 6753 Computation Fundamentals or equivalent must have been completed by the student. This required background may have been completed
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 with multiple grades of C and those 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 completion of the appropriate English as a Second Language sequence of courses.
- The student was admitted without GRE scores and fails to take the GRE General Test during the next semester or fails to obtain a satisfactory composite score on the GRE.
- The student was admitted with contingencies due to deficiencies in prerequisite coursework and fails to make satisfactory progress toward completion of the prerequisites.
- The student is on academic probation and is unable to meet all requirements for removal from probation by the completion of the next 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 or more than 6 credit hours of C grades.
- 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 Appeal of Academic Dismissal 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.

CSE 6990  Special Topics in Computer Science. 1-9 hours
CSE 7000  Directed Individual Study. 1-6 hours
CSE 8000  Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
CSE 8011  Seminar. 1 hour
CSE 8080  Directed Project in Computer Science. 1-3 hours
CSE 8990  Special Topics in Computer Science. 1-9 hours
CSE 9000  Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

Artificial Intelligence:
CSE 6623  Computational Biology (BCH 4113/6113 or equivalent and CSE 1384 or CSE 4613/6613). 3 hours
CSE 6633  Artificial Intelligence (CSE 2383 and CSE 2813 with a grade of C or better). 3 hours
CSE 6653  Cognitive Science (PSY 3713 or CSE 4633 or PHI 4143/6143 or AN 4623/6623). 3 hours
CSE 6663  Human-Computer Interaction (CSE 3813 with a grade of C or better for CS majors, permission of instructor for non-majors). 3 hours
CSE 8613  Cognitive Models of Skill (Graduate Standing). 3 hours
CSE 8673  Machine Learning (CSE 4633/6633). 3 hours
CSE 9633  Topics in Artificial Intelligence (Consent of instructor). 3 hours

Software Engineering:
CSE 6214  Introduction to Software Engineering (CSE 2383 with a grade of C or better). 4 hours
CSE 6223  Managing Software Projects (CSE 4214/6214 with a grade of C or better). 3 hours
CSE 6233  Software Architecture and Design Paradigms (CSE 4214/6214 with a grade of C or better). 3 hours
CSE 6283  Software Testing and Quality Assurance (CSE 4214/6214 with a grade of C or better). 3 hours
CSE 8233  Software Engineering Project Management (CSE 4214/6214). 3 hours
CSE 8243  Software Specification (CSE 4214/6214). 3 hours
CSE 8253  Software Design (CSE 4214/6214). 3 hours
CSE 8263  Software Verification and Validation (CSE 3813 and either CSE 4214/6214 or CSE 8253). 3 hours
CSE 8273  Software Requirements Engineering (CSE 4214/6214 with a C or better). 3 hours
CSE 8283  Empirical Software Engineering (CSE 4214/6214). 3 hours

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 6733  Operating Systems I (CSE 2383 and ECE 3724 both 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 6713  Programming Languages (ECE 3724 and CSE 3813 both with a grade of C or better). 3 hours
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  Computer Graphics (MA 3113, and grade of C or better in CSE 2383). 3 hours
CSE 6453  Game Design (All majors: junior standing. Design-oriented majors: courses in digital
art and/or sound design. CS/SE/CPE majors: CSE 3324 or equivalent with a grade of C or better). 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/CJ). 3 hours
CSE 6383 Cryptography and Network Security (CSE 4153/6153). 3 hours

The following courses will not apply toward a major in computer science:
CSE 6613 Bio-computing. 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
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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 Electrical 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.

Note: Effective Fall 2012 semester, the Department of Electrical and Computer Engineering no longer offers separate electrical engineering (EE) or computer engineering (CPE) degrees at the graduate level.

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 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 dismissal 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 departmental graduate committee 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**

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 3413 Introduction to Electronic Circuits
- ECE 3424 Intermediate Electronic Circuits
- ECE 3443 Signals and Systems
- ECE 3714 Digital Devices and Laboratory
- ECE 3724 Microprocessors or ECE 4743 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 and Computer 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 6293** Nano-electronics (Grade of C or better in either of ECE 3213, PH 2233, or PH 3613, or equivalent). 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
- **ECE 6633** Power Distribution Systems (Credit or registration in ECE 3414). 3 hours
- **ECE 6643** Power Systems Relaying and Control (ECE 4613/6613). 3 hours
- **ECE 6653** Introduction to Power Electronics (Grade of C or better in both ECE 3414 and ECE 3424 or equivalent). 3 hours
- **ECE 6663** Insulation Coordination in Electric Power Systems (Credit or registration in ECE 4613/6613). 3 hours
- **ECE 6673** Fundamentals of High Voltage Engineering (Grade of C or better in ECE 3414). 3 hours
- **ECE 6713** Computer Architecture (ECE 3724/CS 3124). 3 hours
- **ECE 6723** Microprocessors II (ECE 3724/CS 3124). 3 hours
- **ECE 6733** Advanced Microprocessors (Credit or registration in ECE 3724 and ECE 3254). 3 hours
- **ECE 6743** Digital Systems Design (Grade of C or better in ECE 3724; credit or registration in ECE 3424). 3 hours
- **ECE 6763** Information and Computer Security (Grade of C or better in CSE 4733/6733) [Same as CSE 4243/6243]. 3 hours
- **ECE 6783** Vision Based Guidance for MAVs (Grade of C or better in both MA 3113 and MA 3253). 3 hours
- **ECE 6813** Communications Theory (Grade of C or better in ECE 3443). 3 hours
- **ECE 6843** Error Correcting Digital Codes (senior or graduate standing). 3 hours
- **ECE 6853** Electro-Optics (Grade of C or better in ECE 3424). 3 hours
- **ECE 6913** Feedback Control Systems I (Grade of C or better in ECE 3443). 3 hours
- **ECE 6923** Feedback Control Systems II (Grade of C or better in ECE 3443). 3 hours
- **ECE 6933** State Space Design and Instrumentation (Grade of C or better in ECE 3443). 3 hours
- **ECE 6990** Special Topics in ECE. 1-9 hours
- **ECE 7000** Directed Individual Study. 1-6 hours
- **ECE 8000** Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
- **ECE 8023** Switching Theory II (ECE 8013). 3 hours
- **ECE 8073** Parallel Computing Architectures II (ECE 8063 and/or consent of instructor). 3 hours
- **ECE 8113** Linear Systems Analysis I. 3 hours
- **ECE 8223** Analog Integrated Circuit Design (ECE 3434). 3 hours
- **ECE 8253** Solid State Electronics III (ECE 4263/6263). 3 hours
- **ECE 8273** VLSI Systems I (ECE 4263/6263). 3 hours
- **ECE 8313** Electromagnetic Theory (ECE 3324). 3 hours
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 8323</td>
<td>Electromagnetic Theory II (ECE 8313)</td>
<td>3 hours</td>
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<tr>
<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>
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<tr>
<td>ECE 8423</td>
<td>Adaptive Signal Processing (ECE 3443 or consent of instructor)</td>
<td>3 hours</td>
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<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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<tr>
<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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<tr>
<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 8493</td>
<td>Introduction to Neural Networks (ECE 4413/6413 or equivalent)</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>
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<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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<tr>
<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 8683</td>
<td>Power System Operation and Control (Grade of C or better in ECE 4613).</td>
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<tr>
<td>ECE 8693</td>
<td>Power Systems Seminar (Consent of instructor).</td>
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<tr>
<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.</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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<tr>
<td>ECE 8823</td>
<td>Wireless Networks (ECE 4813/6813 or equivalent).</td>
<td>3 hours</td>
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<tr>
<td>ECE 8913</td>
<td>Advanced Feedback Control Systems (ECE 4613/6613).</td>
<td>3 hours</td>
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<tr>
<td>ECE 8923</td>
<td>Non-Linear Control Systems (ECE 4913/6913).</td>
<td>3 hours</td>
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<tr>
<td>ECE 8933</td>
<td>Random Processes in Automatic Control (ECE 4913/6913).</td>
<td>3 hours</td>
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<tr>
<td>ECE 8943</td>
<td>Optimal Control of Dynamic Systems (ASE 4123 or ECE 4913/6913 or equivalent).</td>
<td>3 hours</td>
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<tr>
<td>ECE 8953</td>
<td>Sampled-Data Control Systems (ECE 4913/6913).</td>
<td>3 hours</td>
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<tr>
<td>ECE 8963</td>
<td>Digital Control Systems (ECE 4913/6913 and ECE 4923/6923 or consent of instructor).</td>
<td>3 hours</td>
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<tr>
<td>ECE 8990</td>
<td>Special Topics in ECE.</td>
<td>1.9 hours</td>
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<tr>
<td>ECE 9000</td>
<td>Dissertation Research/Dissertation.</td>
<td>Hours and credits to be arranged; minimum of 20 hours required for degree</td>
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**INTERDISCIPLINARY PROGRAMS**

**APPLIED PHYSICS**

Dr. David Monts, Graduate Coordinator  
Hilbun Hall 125  
Box 3574  
Mississippi State, MS 39762  
Telephone: 662-325-2931  
E-mail: dlm1@ra.msstate.edu

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 program requires a master's degree (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.

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; microwave spectroscopy; astrophysics; astrochemistry; and physics education. Graduate research and teaching assistantships are available. For a complete listing of requirements and other pertinent information, please reference information provided in Physics and Astronomy,
College of Arts and Science, located in this publication.

**MASTER OF ENGINEERING**

Dr. Masoud Rais-Rohani Associate Dean for Research and Graduate Studies and Graduate Coordinator, M Eng

Ms. Rita A. Burrell, Manager for Graduate and Distance Education

160 McCain
Box 9544
Mississippi State, MS 39762
Telephone: 662-325-5923
Fax: 662-325-8573
E-mail: rburrell@bagley.msstate.edu
Website: [http://www.bcoelearning.msstate.edu/academic-programs/master-of-engineering/](http://www.bcoelearning.msstate.edu/academic-programs/master-of-engineering/)

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 online 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.

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.

**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.

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 dismissal according to Appeal of Academic Dismissal 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 either in person or 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.
degrees offered in the James Worth Bagley College of Engineering.

Graduate Courses—Course prerequisites are noted in parentheses.

EM 6123  An Introduction to the Finite Element Method (Consent of instructor). 3 hours
EM 6133  Mechanics of Composite Materials (EM 3213, MA 3253). 3 hours
EM 6143  Engineering Design Optimization (Consent of instructor). 3 hours
EM 6213  Advanced Mechanics of Materials (EM 3213). 3 hours
EM 6990  Special Topics in Engineering Mechanics. 1-9 hours
EM 7000  Directed Individual Study. 1-6 hours
EM 8113  Theory of Continuous Media (MA 3353 or consent of the instructor). 3 hours
EM 8203  Applied Elasticity. 3 hours
EM 8213  Fracture Mechanics (EM 3213 or consent of instructor). 3 hours
EM 8223  Elastic Stability. 3 hours
EM 8313  Advanced Dynamics (EM 2433, MA 3253). 3 hours
EM 8323  Advanced Vibrations (EM 3413). 3 hours
EM 8990  Special Topics in Engineering Mechanics. 1-9 hours

GENERAL ENGINEERING
Dr. Masoud Rais-Rohani, 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.

GE 6990  Special Topics in General Engineering. 1-9 hours
GE 8990  Special Topics in General Engineering. 1-9 hours
GE 9000  Dissertation Research/Dissertation. 20 hours

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; and Six Sigma. 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. Marshall Molen, 662-325-2046 or molen@ece.msstate.edu.

**Computational Biology**
The Computational Biology Certificate combines coursework in computer science and biology to offer students a formal program of study to address how biological systems work by analyzing the data made available with high throughput biology. Students will gain fundamental skills in computing integrated with biology (i.e., application techniques to understand the structures, functions, dynamics, and evolution of living organisms) and will become competitive for high-end employment in emerging technical fields. The well-defined program will provide students with recognition of their training in the area and will allow students from diverse disciplines to learn together. The program will be administered by the Department of Computer Science and Engineering, the Center for Computer Security Research, and the Office of the Dean of Engineering. The certificate is awarded by the Bagley College of Engineering and the College of Agriculture and Life Sciences. For additional information, contact Dr. Andy Perkins at 662-325-0004 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/IAcertificateappl.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 Ms. Rita Burrell at rburrell@bagley.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/workinggroup/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 Ms. Rita Burrell at rburrell@bagley.msstate.edu.

**INDUSTRIAL AND SYSTEMS ENGINEERING**
Dr. John M. Usher, PE, Department Head
Dr. Kari Babski-Reeves, CPE, 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**
Typically, an entering M.S. student should have a grade point average of 3.00 out of 4.00 for the junior and senior years. Likewise, 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 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.

**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 or 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 dismissal 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>IE 6113</td>
<td>Human Factors Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IE 6123</td>
<td>Psychology of Human-Computer Interaction (PSY 3713 or CS 4663/6663 or IE 4113/6113 or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>IE 6173</td>
<td>Occupational Safety Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IE 6193</td>
<td>Automotive Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IE 6333</td>
<td>Production Control Systems I (IE 4613/6613)</td>
<td>3</td>
</tr>
<tr>
<td>IE 6353</td>
<td>Materials Handling</td>
<td>3</td>
</tr>
<tr>
<td>IE 6373</td>
<td>Automation</td>
<td>3</td>
</tr>
<tr>
<td>IE 6513</td>
<td>Engineering Administration (Junior or graduate standing in engineering).</td>
<td>3</td>
</tr>
<tr>
<td>IE 6533</td>
<td>Project Management (IE 4613/6613)</td>
<td>3</td>
</tr>
<tr>
<td>IE 6543</td>
<td>Logistics Engineering. (IE 4613 and senior or graduate standing).</td>
<td>3</td>
</tr>
<tr>
<td>IE 6553</td>
<td>Engineering Law &amp; Ethics.</td>
<td>3</td>
</tr>
<tr>
<td>IE 6573</td>
<td>Process Improvement Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IE 6613</td>
<td>Engineering Statistics I (MA 1723).</td>
<td>3</td>
</tr>
<tr>
<td>IE 6623</td>
<td>Engineering Statistics II (grade of C or better in IE 4613/6613).</td>
<td>3</td>
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<tr>
<td>IE 6653</td>
<td>Industrial Quality Control I (IE 4613/6613)</td>
<td>3</td>
</tr>
<tr>
<td>IE 6673</td>
<td>Reliability Engineering (IE 4613).</td>
<td>3</td>
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<tr>
<td>IE 6713</td>
<td>Operations Research I (IE 4613/6613).</td>
<td>3</td>
</tr>
<tr>
<td>IE 6733</td>
<td>Linear Programming I (CSE 1213 and MA 3113).</td>
<td>3</td>
</tr>
<tr>
<td>IE 6743</td>
<td>Engineering Design Optimization.</td>
<td>3</td>
</tr>
<tr>
<td>IE 6753</td>
<td>Systems Engineering and Analysis (Grade of C or better in IE 3913 and grade of C or better in IE 4613/6613).</td>
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<tr>
<td>IE 6773</td>
<td>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).</td>
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</tr>
<tr>
<td>IE 6923</td>
<td>Six Sigma Methods and Project (IE 4623/6623).</td>
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<tr>
<td>IE 6934</td>
<td>Information Systems for Industrial Engineering.</td>
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<tr>
<td>IE 6990</td>
<td>Special Topics in Industrial Engineering.</td>
<td>1-9</td>
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<tr>
<td>IE 7000</td>
<td>Directed Individual Study.</td>
<td>1-6</td>
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<tr>
<td>IE 8000</td>
<td>Thesis Research/Thesis.</td>
<td>3</td>
</tr>
<tr>
<td>IE 8143</td>
<td>Applied Ergonomics Methods.</td>
<td>3</td>
</tr>
<tr>
<td>IE 8153</td>
<td>Cognitive Engineering.</td>
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</tr>
<tr>
<td>IE 8163</td>
<td>Macroergonomics.</td>
<td>3</td>
</tr>
<tr>
<td>IE 8333</td>
<td>Production Control Systems II (IE 4333/6333).</td>
<td>3</td>
</tr>
<tr>
<td>IE 8353</td>
<td>Manufacturing Systems Modeling.</td>
<td>3</td>
</tr>
<tr>
<td>IE 8583</td>
<td>Enterprise Systems Engineering (Consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>IE 8723</td>
<td>Operations Research II (IE 4713/6713).</td>
<td>3</td>
</tr>
<tr>
<td>IE 8733</td>
<td>Decision Theory (IE 4613/6613).</td>
<td>3</td>
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<tr>
<td>IE 8743</td>
<td>Nonlinear Programming I (IE 4733/6733 or MA 4733/6733).</td>
<td>3</td>
</tr>
<tr>
<td>IE 8753</td>
<td>Network Flows and Dynamic Programming (MA 2733 and IE 4613).</td>
<td>3</td>
</tr>
<tr>
<td>IE 8773</td>
<td>Systems Simulation II (IE 4773/6773).</td>
<td>3</td>
</tr>
<tr>
<td>IE 8793</td>
<td>Heuristics in Optimization.</td>
<td>3</td>
</tr>
<tr>
<td>IE 8913</td>
<td>Engineering Economy II (IE 3913 and IE 4613/6613).</td>
<td>3</td>
</tr>
</tbody>
</table>
The Mechanical Engineering program offers graduate study leading to the degrees of Master of Science and Doctor of Philosophy. Both degrees are available via BCoE Learning (online). 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.

**Master of Science**

**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.

**Doctor of Philosophy**

**Program of Study/Completion Requirements**
For the Ph.D., 42 hours of coursework beyond the B.S. degree and 20 dissertation/research credits are required. Of the 42 hours, up to 6 hours of ME 7000 can be included. A written and oral qualifying examination is required during the first 24 months of graduate coursework. An oral preliminary examination is required to be taken upon completion or coursework or when the student is within 6 hours of completing coursework. 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 6113</td>
<td>Material Selection in Design (ME 403 or equivalent).</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 6123</td>
<td>Failure of Engineering Materials (EM 3213).</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 6133</td>
<td>Mechanical Metallurgy (ME 3403 or equivalent).</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 6193</td>
<td>Automotive Engineering.</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 6223</td>
<td>Mechanical Systems Analysis (EM 3413 or ME 3613).</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 6333</td>
<td>Energy Systems Design (ME 3113, ME 3313).</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 6343</td>
<td>Intermediate Heat Transfer (ME 3313).</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 6353</td>
<td>Alternate Energy Sources (ME 3313).</td>
<td>3 hours</td>
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<tr>
<td>ME 6373</td>
<td>Air Conditioning (ME 3523 and ME 3313).</td>
<td>3 hours</td>
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<tr>
<td>ME 6383</td>
<td>Heat Exchanger Design (ME 3313 and EM 3313).</td>
<td>3 hours</td>
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<tr>
<td>ME 6413</td>
<td>Casting and Joining (ME 3403).</td>
<td>3 hours</td>
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<tr>
<td>ME 6423</td>
<td>Machining and Forming (ME 3403).</td>
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<tr>
<td>ME 6443</td>
<td>Mechanical Systems Design (ME 3423 and ME 4403).</td>
<td>3 hours</td>
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<tr>
<td>ME 6453</td>
<td>Lubrication.</td>
<td>3 hours</td>
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<tr>
<td>ME 6463</td>
<td>Engineering Design (ME 3613).</td>
<td>3 hours</td>
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<tr>
<td>ME 6473</td>
<td>Kinematic Theory and Design of Mechanisms (ME 3423).</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 6483</td>
<td>Computer-Aided Design (ME 4403).</td>
<td>3 hours</td>
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<tr>
<td>ME 6493</td>
<td>Concurrent Engineering.</td>
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<tr>
<td>ME 6543</td>
<td>Combustion Engines (ME 3523 and ME 3313).</td>
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<td>ME 6623</td>
<td>Control Systems (ME 3313).</td>
<td>3 hours</td>
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<tr>
<td>ME 6624</td>
<td>Experimental Methods in Materials Research (CHE 3413 or ABE 3813 or ME 3403 or permission of instructors).</td>
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<tr>
<td>ME 6643</td>
<td>Automation of Mechanical Systems (ME 3613 and ECE 3283).</td>
<td>3 hours</td>
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<tr>
<td>ME 6743</td>
<td>Labview (ME 3701 or equivalent Labview experience).</td>
<td>3 hours</td>
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<tr>
<td>ME 6823</td>
<td>Compressible Flow and Turbomachinery (EM 3313 and ME 3523).</td>
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<tr>
<td>ME 6833</td>
<td>Intermediate Fluid Mechanics (EM 3313).</td>
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<tr>
<td>ME 6990</td>
<td>Special Topics in Mechanical Engineering.</td>
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<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.</td>
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<tr>
<td>ME 8011</td>
<td>Graduate Seminar.</td>
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<tr>
<td>ME 8213</td>
<td>Engineering Analysis I.</td>
<td>3 hours</td>
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<tr>
<td>ME 8223</td>
<td>Inelasticity (EM 8113 and EM 8203).</td>
<td>3 hours</td>
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<th>Course Code</th>
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<tr>
<td>ME 8243</td>
<td>Finite Elements in Mechanical Engineering (ME 4403 and EM 3213).</td>
<td>3 hours</td>
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<tr>
<td>ME 8253</td>
<td>Fatigue in Engineering Design.</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 8313</td>
<td>Conductive Heat Transfer.</td>
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<tr>
<td>ME 8323</td>
<td>Radiation Heat Transfer.</td>
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<tr>
<td>ME 8333</td>
<td>Convective Heat Transfer.</td>
<td>3 hours</td>
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<tr>
<td>ME 8343</td>
<td>Two-Phase Flow and Heat Transfer (ME 3313 and EM 3313).</td>
<td>3 hours</td>
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<tr>
<td>ME 8353</td>
<td>Advanced Energy Conversion (Consent of instructor).</td>
<td>3 hours</td>
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<tr>
<td>ME 8363</td>
<td>Computational Heat Transfer (Consent of instructor).</td>
<td>3 hours</td>
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<tr>
<td>ME 8403</td>
<td>Principles of Computer-Aided Design and Manufacturing.</td>
<td>3 hours</td>
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<tr>
<td>ME 8513</td>
<td>Classical Thermodynamics.</td>
<td>3 hours</td>
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<td>ME 8613</td>
<td>Dynamical Systems.</td>
<td>3 hours</td>
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<tr>
<td>ME 8713</td>
<td>Mechanics and Control of Manufacturing System.</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 8733</td>
<td>Experimental Procedures.</td>
<td>3 hours</td>
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<tr>
<td>ME 8743</td>
<td>Stress Analysis (EM 3213).</td>
<td>3 hours</td>
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<tr>
<td>ME 8813</td>
<td>Viscous Flow I.</td>
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<tr>
<td>ME 8823</td>
<td>Viscous Flow II (ME 8813 or equivalent).</td>
<td>3 hours</td>
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<tr>
<td>ME 8843</td>
<td>Unstructured Grid Technology (ASE 8413).</td>
<td>3 hours</td>
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<tr>
<td>ME 8990</td>
<td>Special Topics in Mechanical Engineering.</td>
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<tr>
<td>ME 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>
COLLEGE OF FOREST RESOURCES

Dr. George M. Hopper, Dean/Director
Dr. Ian A. Munn, Associate Dean
107 Thompson Hall
Telephone: 662-325-2953
Fax: 662-325-8762
Mailing Address: Box 9680, Mississippi State, MS 39762-9680
Website: http://www.cfr.msstate.edu/
E-mail: ghopper@cfr.msstate.edu
imunn@cfr.msstate.edu

DEGREE PROGRAMS
(T=thesis; NT=non-thesis)
[Offered: 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 in Forest Products [1]

DEPARTMENT OF FORESTRY

Master of Science
Major: Forestry (T; NT) [1, 5]

Doctor of Philosophy
Major: Forest Resources; Concentration in Forestry [1]

DEPARTMENT OF WILDLIFE, FISHERIES & AQUACULTURE

Master of Science
Major: Wildlife and Fisheries Science (T) [1]

Doctor of Philosophy
Major: Forest Resources; Concentration in Wildlife and Fisheries [1]

The College of Forest Resources (CFR) is the only college of its kind in the state providing learning and research opportunities in forestry, forest products, wildlife, fisheries, aquaculture, and water resources. The college has over 4,000 alumni who make an impact daily on conserving the planet and providing for a sustainable environment. The college has earned a national and international reputation as a center for science and education programs in forestry, wildlife and fisheries, and forest products. A Master of Science degree in forestry offered through distance learning allows students from across the globe an opportunity to advance their knowledge.

FOREST PRODUCTS

Dr. Rubin Shmulsky, Department Head and Graduate Coordinator
201 Locksley Way
Box 9820
Mississippi State, MS 39762-9820
Telephone: 662-325-2116
E-mail: rs26@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.

Master of Science
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.

Doctor of Philosophy
Program of Study/Completion Requirements
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</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP 6013</td>
<td>Wood Anatomy (FP 1103 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 6023</td>
<td>Wood Chemistry (CH 1053 and CH 1223).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 6113</td>
<td>Adhesives and Finishes for Wood (CH 1053, FP 1103 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 6123</td>
<td>Lumber Manufacturing (Consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 6143</td>
<td>Composite Wood Products (FP 4113).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 6213</td>
<td>Wood Deterioration and Preservation (Consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 6223</td>
<td>Furniture Production I (FP 1103 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 6233</td>
<td>Furniture Production II (FP 1103 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 6253</td>
<td>Quantitative Methods in Forest Products and Furniture (MA 1613 or MA 1713, CS 4093/6093 or concurrent).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 6313</td>
<td>Environmental Principles (FP 3012 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 6323</td>
<td>Physical Properties of Wood (FP 1103, MA 1613, PH 1113 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 6353</td>
<td>Forest Products Marketing (FP 3012 and junior standing).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 6423</td>
<td>Mechanical Properties of Wood (FP 1103, MA 1613, PH 1113 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 6990</td>
<td>Special Topics in Forest Products.</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>FP 7000</td>
<td>Directed Individual Study.</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 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>FP 8111</td>
<td>Research Seminar.</td>
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<tr>
<td>FP 8121</td>
<td>Research Seminar II.</td>
<td>1 hour</td>
</tr>
<tr>
<td>FP 8113</td>
<td>Advanced Wood Physics (Consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 8123</td>
<td>Lignocellulosic Biomass Chemistry (Consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 8133</td>
<td>Environmental Issues in Forest Products (Consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 8213</td>
<td>Advanced Wood Mechanics (Consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FP 8990</td>
<td>Special Topics in Forest Products.</td>
<td>1-9 hours</td>
</tr>
</tbody>
</table>

Hours and credits to be arranged; minimum of 20 hours required for degree.
FORESTRY
Dr. Andrew W. Ezell, Department Head and Graduate Coordinator
105A 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 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 by that faculty member to evaluate the student’s potential to complete the program successfully.

Provisional Admission—Provisional admission does not apply to doctoral applicants. Only master’s degree applicants 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 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 the graduate program. While in the provisional status, students are not eligible to hold a graduate assistantship.

Master of Science
Program of Study/Completion Requirements
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 are required for the thesis option, and a thesis is required. A comprehensive oral examination will be administered on coursework taken and the professional paper or thesis.

Doctor of Philosophy
Program of Study/Completion Requirements
A 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 coursework and research credit hours. 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.

Master of Science
Program of Study/Completion Requirements
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). 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 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 University Academic Calendar deadline.

Doctor of Philosophy
Program of Study/Completion Requirements
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.

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 the course is available both on the Main Campus and online.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FO 6113</td>
<td>Forest Resource Economics (AEC 2713 or equivalent) (OL)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FO 6123</td>
<td>Forest Ecology (FO 3012)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FO 6213</td>
<td>Forest Biometrics (ST 2113 or equivalent or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FO 6221</td>
<td>Practice of Silviculture Laboratory (FO 4123/6123 or WFA 4223; corequisite FO 6223)</td>
<td>1 hour</td>
</tr>
<tr>
<td>FO 6223</td>
<td>Practice of Silviculture (FO 4123/6123 or WFA 3133 and WFA 4223; corequisite FO 6221)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FO 6231</td>
<td>Introduction to Wood Supply Systems (Corequisite FO 3015)</td>
<td>1 hour</td>
</tr>
<tr>
<td>FO 6233</td>
<td>Forest Operations and Harvesting (FO 3015 and FO 4231/6231, or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Hours</td>
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<tr>
<td>-------------</td>
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</tr>
<tr>
<td>FO 6253</td>
<td>Forest Procurement (FO 4231/6231, FO 4233/6233 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FO 6313</td>
<td>Spatial Technologies in Natural Resources Management (FO 3015 or GR 2313 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FO 6323</td>
<td>Forest Resource Management (FO 4113/6113, FO 4213/6213, FO 4223/6223, FO 4231/6231, FO 4233/6233)</td>
<td>(OL) 3 hours</td>
</tr>
<tr>
<td>FO 6343</td>
<td>Forest Administration and Organization.</td>
<td>3 hours</td>
</tr>
<tr>
<td>FO 6353</td>
<td>Natural Resource Law (Consent of instructor). (OL)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FO 6411</td>
<td>Remote Sensing Seminar (Junior standing; may be repeated for credit up to four credits).</td>
<td>1 hour</td>
</tr>
<tr>
<td>FO 6413</td>
<td>Natural Resources Policy. (OL)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FO 6423</td>
<td>Professional Practices (FO 4323/6323).</td>
<td>(OL) 3 hours</td>
</tr>
<tr>
<td>FO 6443</td>
<td>International Forest Resources and Trade (Consent of instructor).</td>
<td>(OL) 3 hours</td>
</tr>
<tr>
<td>FO 6451</td>
<td>Remote Sensing Applications Laboratory (A basic image/interpretation or remote sensing course; corequisite: FO 6452).</td>
<td>1 hour</td>
</tr>
<tr>
<td>FO 6452</td>
<td>Remote Sensing Applications (A basic image/interpretation or remote sensing course or consent of instructor; corequisite FO 6452).</td>
<td>2 hours</td>
</tr>
<tr>
<td>FO 6463</td>
<td>Forest Hydrology and Watershed Management (PSS 3303, FO 4223/6223, and FO 4221/6221, or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FO 6471</td>
<td>GIS for Natural Resource Management Laboratory (Corequisite: FO 6472).</td>
<td>1 hour</td>
</tr>
<tr>
<td>FO 6472</td>
<td>GIS for Natural Resource Management (Corequisite: FO 6471).</td>
<td>2 hours</td>
</tr>
<tr>
<td>FO 6483</td>
<td>Forest Soils (PSS 3303, FO 4121/6121, FO 4123/6123 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FO 6990</td>
<td>Special Topics in Forestry. 1 to 9 hours</td>
<td></td>
</tr>
<tr>
<td>FO 7000</td>
<td>Directed Individual Study. 1 to 3 hours</td>
<td></td>
</tr>
<tr>
<td>FO 8000</td>
<td>Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
<td></td>
</tr>
<tr>
<td>FO 8111</td>
<td>Graduate Seminar (First year of study). (OL)</td>
<td>1 hour</td>
</tr>
<tr>
<td>FO 8143</td>
<td>Advanced Forest Economics. 3 hours</td>
<td></td>
</tr>
<tr>
<td>FO 8153</td>
<td>Quantitative Ecology (MA 1723 and ST 8114 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FO 8163</td>
<td>Nonmarket Forest Values (FO 4113/6113 or consent of instructor). (OL)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FO 8173</td>
<td>Advanced Spatial Technologies (introductory course in remote sensing or GIS, or consent of instructor).</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

**WILDLIFE, FISHERIES AND AQUACULTURE**

*Dr. Eric D. Dibble, Interim Department Head and Graduate Coordinator*

Thompson Hall 109  
Box 9690  
Mississippi State, MS 39762-9690  
Telephone: 662-325-3830  
E-mail: edibble@cfr.msstate.edu

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 research proposal seminar, thesis, thesis defense, and comprehensive oral examination. A Ph.D. degree is offered in Forest Resources with a concentration in Wildlife and Fisheries. 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 and fellowships are available. For additional
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. This is followed by a mandatory seminar regarding the proposed research plan. 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 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.
Doctor of Philosophy
Program of Study/Completion Requirements
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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WFA 6133</td>
<td>Fisheries Science (ST 3123 or equivalent).</td>
<td>3</td>
</tr>
<tr>
<td>WFA 6173</td>
<td>Fish Physiology (BIO 1134 and BIO 1144 or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>WFA 6183</td>
<td>Principles and Practices of Aquaculture (BIO 1134 and BIO 1144, or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>WFA 6223</td>
<td>Wildlife Plant Identification (BIO 1134 and BIO 1144 and WFA 3133 or equivalent).</td>
<td>3</td>
</tr>
<tr>
<td>WFA 6233</td>
<td>Limnology (WFA 3133 or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>WFA 6253</td>
<td>Application of Spatial Technologies to Wildlife and Fisheries Management (Consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>WFA 6263</td>
<td>Wildlife Diseases [Same as CVM 6263].</td>
<td>3</td>
</tr>
<tr>
<td>WFA 6273</td>
<td>Ecology and Management of Human-Wildlife Conflict (WFA 3133, or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>WFA 6283</td>
<td>Human-Wildlife Conflict Techniques (WFA 3133, or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>WFA 6313</td>
<td>Fisheries Management (WFA 3133 or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>WFA 6323</td>
<td>Wildlife Nutrition and Physiology.</td>
<td>3</td>
</tr>
<tr>
<td>WFA 6343</td>
<td>Pond and Stream Management (Consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>WFA 6353</td>
<td>Fish and Wildlife Policy and Law Enforcement (Consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>WFA 6363</td>
<td>Wildlife and Fisheries Administration and Communication (Junior standing, or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>WFA 6373</td>
<td>Principles and Practice of Conservation in Agricultural Landscapes.</td>
<td>3</td>
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<tr>
<td>WFA 6383</td>
<td>Wetlands Ecology and Management (WFA 3133 and junior standing, or consent of instructor).</td>
<td>3</td>
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<tr>
<td>WFA 6394</td>
<td>Waterfowl Ecology and Management (WFA 3133 and junior standing, or consent of instructor).</td>
<td>4</td>
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<tr>
<td>WFA 6483</td>
<td>Seminar in Tropical Biology (WFA 3133 or consent of instructor).</td>
<td>3</td>
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<tr>
<td>WFA 6484</td>
<td>Upland Avian Ecology and Management (WFA 3133 and WFA 4153 and junior standing, or consent of instructor).</td>
<td>4</td>
</tr>
<tr>
<td>WFA 6494</td>
<td>Large Mammal Ecology and Management (WFA 3133 and WFA 4153 and junior standing, or consent of instructor).</td>
<td>4</td>
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<tr>
<td>WFA 6512</td>
<td>Advanced Topics in Human-Wildlife Conflicts I (WFA 4273/6273, WFA 4283/6283, or consent of instructor).</td>
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<tr>
<td>WFA 6521</td>
<td>Advanced Topics in Human-Wildlife Conflicts II (WFA 4512/6512).</td>
<td>1</td>
</tr>
<tr>
<td>WFA 6613</td>
<td>Landscape Ecology (WFA 3133 and ST 3123 or equivalents or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>WFA 6690</td>
<td>Special Topics in Wildlife and Fisheries.</td>
<td>1-9</td>
</tr>
<tr>
<td>WFA 7000</td>
<td>Directed Individual Study.</td>
<td>1-6</td>
</tr>
<tr>
<td>WFA 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>WFA 8134</td>
<td>Research Methods in Wildlife and Fisheries Sciences (Graduate standing; ST 8114).</td>
<td>4</td>
</tr>
<tr>
<td>WFA 8144</td>
<td>Theory of Wildlife Population Ecology (WFA 3133, ST 3133 or consent of instructor).</td>
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<td>WFA 8154</td>
<td>Quantitative Applications in Wildlife Population Ecology (WFA 8144, ST 8114 or consent of instructor).</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).</td>
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<td>WFA 8223</td>
<td>Management of Impounded River Ecosystems (WFA 4313/6313 or equivalent).</td>
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<td>WFA 8243</td>
<td>Conservation Biology (WFA 3133, BIO 3103 or consent of instructor).</td>
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<td>WFA 8273</td>
<td>Advanced Fisheries Management (WFA 4133/6133 and WFA 4313/6313 or consent of instructor).</td>
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<tr>
<td>WFA 8343</td>
<td>Conceptual Ecology and Natural Resource Management (WFA 3133 or equivalent or consent of instructor).</td>
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<td>WFA 8344</td>
<td>Wildlife Habitat Analysis and Management (BIO 4203)</td>
<td>4 hours</td>
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<td>WFA 8413</td>
<td>Advanced Fishery Science (WFA 4133/6133 and ST 3123 or equivalents)</td>
<td>3 hours</td>
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<tr>
<td>WFA 8423</td>
<td>Applied Bayesian Statistics in Ag/Natural Resources (ST 8114 and ST 8253, or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>WFA 8424</td>
<td>Applied Aquatic Biogeochemistry (Instructor discretion)</td>
<td>2 hours</td>
</tr>
<tr>
<td>WFA 8990</td>
<td>Special Topics in Wildlife and Fisheries.</td>
<td>1-9 hour</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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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 (CVM) at Mississippi State University (MSU) provides M.S. and Ph.D. degrees in Veterinary Medical Sciences (VMS) and a Ph.D. in Environmental Toxicology (ENVT). These graduate programs provide advanced educational opportunities for students in a broad range of biomedical and veterinary sciences. A non-thesis master’s option in VMS is also offered with emphasis in food animal production medicine, i.e. dairy, beef, swine, poultry, and aquaculture. The goal of the VMS and ENVT programs is to provide training for the next generation of scientists and educators who will be leaders in biomedical and veterinary research and education. Faculty in CVM’s Department of Basic Sciences, Department of Clinical Sciences, and Department of Pathobiology & Population Medicine lead each student’s graduate education. Involvement in ongoing research projects conducted by the faculty is an important part of each degree program. Students in the VMS program specialize in disciplines such as applied clinical research, biocomputing, epidemiology, health disparities, infectious diseases, toxicology, and food safety.

In addition to the traditional M.S. and Ph.D. programs in the College, students may pursue a D.V.M.-Ph.D. or D.V.M.-M.S. dual-degree program. These programs allow students to simultaneously pursue the M.S. or Ph.D. degree while working toward completion of the D.V.M. degree. Students wishing to pursue the D.V.M. and a graduate degree simultaneously are carefully screened for admission because of the rigorous requirements and time commitments necessary to work on two degree concurrently. Information concerning the D.V.M. dual-degree programs can be found at the [Combined D.V.M.-Graduate Degree Programs site](http://www.cvm.msstate.edu/academics/dvm_graduate_programs.html).

The following admission guidelines/restrictions must be followed:

- Student with a B.S. degree are eligible for admission to the M.S. and Ph.D. programs in CVM.
- Current D.V.M. students without a B.S. degree must complete the first two years of the D.V.M. program before admission to CVM M.S. or Ph.D. program.
- A signed Dual Degree Form must be submitted to CVM Office of Research and Graduate Studies by the student and then to the Office of the Graduate School at the time of admission to the graduate program.

**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 Program Advisory Committee. See Provisional Admission under Admission In this publication for provisional requirements.

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 20 hours of graduate coursework, at least 20 hours of Research/Dissertation (CVM 9000), three seminar courses (CVM 8011 or equivalent)\(^1\), and two statistics courses\(^2\). 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.

Academic 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.

\(^1\)Equivalency of seminars and coursework is determined by the student’s graduate committee.

\(^2\)Previous graduate level statistics courses can satisfy this requirement with approval of the student’s graduate committee. Transfer of credit for any previously taken courses is subject to the MSU Bulletin of the Graduate School policy. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

VETERINARY MEDICAL SCIENCE
Dr. R. Hartford Bailey, Graduate Coordinator, Pathobiology and Population Medicine
Dr. Larry Hanson, Graduate Coordinator, Basic Sciences
Dr. Andrew Mackin, Graduate Coordinator, Clinical Sciences
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 Program Advisory Committee. See Provisional Admission under Admission In this publication for provisional requirements.

Readmission—For readmission to any graduate degree program in the College of Veterinary Medicine, 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 Program Advisory Committee. See Provisional Admission under Admission In this publication for provisional requirements.

Readmission—For readmission to any graduate degree program in the College of Veterinary Medicine, 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.
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.

**Master of Science**

**Program of Study/Completion Requirements**

Course requirements for the thesis-option master’s degree are a minimum of 30 hours approved graduate credit which includes 24 hours of graduate coursework (one-half or more must be 8000-level courses or above) which includes one statistics course\(^1,2\), one seminar course (CVM 8011, 8091, or equivalent\(^1\)), and a final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis. The non-thesis M.S. option includes the successful completion of the coursework and written and/or oral exams which cover the major and supportive fields. Thesis-based M.S. students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

**Doctor of Philosophy**

**Program of Study/Completion Requirements**

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 (CVM 9000), three seminar courses (CVM 8011, 8091, or equivalent \(^1\)), and two statistics courses. The student must pass preliminary and final examinations, both of which can cover the major and supportive fields.

Ph.D. students must present an open seminar of the dissertation research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

**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).

\(^1\)Equivalency of seminars and coursework is determined by the student’s graduate committee.

\(^2\)Previous graduate level statistics courses can satisfy this requirement with approval of the student’s graduate committee. Transfer of credit for any previously taken courses is subject to the MSU Bulletin of the Graduate School policy. Graduate level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

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

- **CVM 6021** Essentials in Research Practice and Professionalism. 1 hours
- **CVM 6033** Immunology (Enrollment in the professional veterinary degree program). 3 hours
- **CVM 6036** Veterinary Physiology (Enrollment in the professional veterinary degree program). 6 hours
- **CVM 6134** Aquatic Animal Health Management. 4 hours
- **CVM 6163** Veterinary Parasitology (Enrollment in the professional veterinary degree program). 3 hours
- **CVM 6180** Emerg Prep Animal Health. 3 hours
- **CVM 6223** Pharmacology I (Enrollment in the professional veterinary degree program). 3 hours
- **CVM 6263** Wildlife Diseases [Same as WFA 6263]. 2 hours
- **CVM 6602** Comparative Endocrinology II (Enrollment in a veterinary graduate program; instructor approval). 2 hours
- **CVM 6513** Environmental Toxicology (8 hours biological sciences and 8 hours chemistry). 3 hours
- **CVM 6523** Basic Neuroscience. 3 hours
- **CVM 6990** Special Topic in CVM. Hours and credits to be arranged.
- **CVM 7000** Directed Individual Study. 1-6 hours
- **CVM 8000** Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
- **CVM 8011** Seminar. 1 hour
- **CVM 8031** Current Topics in Molecular Mechanisms of Disease. 1 hour
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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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<tr>
<td>CVM 8101</td>
<td>Case Studies Research Ethics [Same as PHI 8101]. 1 hour</td>
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<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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<tr>
<td>CVM 8134</td>
<td>Advanced Fish Diseases (CVM 6134 or permission). 4 hours</td>
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<tr>
<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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<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 Toxicology I. 3 hours</td>
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<td>CVM 8533</td>
<td>Organ Systems Toxicology 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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<td>CVM 8614</td>
<td>Helminthology (BIO 1144 or consent of instructor). 4 hours</td>
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<td>Protozoology (BIO 1504 or equivalent). 4 hours</td>
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<td>CVM 8701</td>
<td>Pathology Seminar. 1 hour</td>
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<td>CVM 8711</td>
<td>Histopath Descriptions (Consent of instructor). 1 hour</td>
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<td>CVM 8721</td>
<td>Gross Vet Path (CVM 5044 or consent of instructor; may be repeated for credit). 1 hour</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). 3 hours</td>
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<td>CVM 8743</td>
<td>Emerging Infect Disease (Acceptance to dual degree program or consent of instructor). 3 hours</td>
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<td>CVM 8790</td>
<td>Laboratory Diagnostic Services. 1-9 hours</td>
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<td>CVM 8801</td>
<td>Seminars in Veterinary Anesthesiology (DVM or equivalent degree, or permission from instructor). 1 hour</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). 5 hours</td>
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<td>CVM 8812</td>
<td>Equine Repro Ultrasound (Consent of instructor). 2 hours</td>
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<td>CVM 8890</td>
<td>Economic and Performance Medicine (Consent of instructor). 3 hours</td>
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<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. 1 hour</td>
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<tr>
<td>CVM 8971</td>
<td>Current Topics in Parasitology (Graduate standing and consent of instructor). Course can be repeated up to 4 times for credit. 1 hour</td>
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<td>CVM 8973</td>
<td>Scientific Writing (Graduate standing and consent of instructor) [Same as ADS 8973 and FO 8973]. 3 hours</td>
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<td>CVM 8983</td>
<td>Advanced Biotechnology (BCH 6603, BCH 6613, BCH 6713, or consent of instructor). 3 hours</td>
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<td>CVM 8990</td>
<td>Special Topics in Veterinary Medicine. 1-9 hours</td>
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<tr>
<td>CVM 8993</td>
<td>Functional Genomics (BCH 6713 and ST 6243 or consent of instructor). 3 hours</td>
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<tr>
<td>CVM 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>
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.

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).

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

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.

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

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.

*****

**GRADUATE FACULTY BY COLLEGE/DEPARTMENT**

**COLLEGE OF AGRICULTURE AND LIFE SCIENCES**

**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, Ph.D., Duke University, Professor, Provost and Executive Vice President
  - Liao, Jun, Ph.D., Cleveland State University, Assistant Professor
  - Linhoss, Anna C., Ph.D., University of Florida, Assistant Professor
  - Parajuli, Prem B., Ph.D., Kansas State University, Assistant Professor
  - Paz, Joel O., Ph.D., Iowa State University, Assistant Professor
  - Pote, Jonathan W., Ph.D., University of Arkansas, Professor and Department Head
  - Prabhu, Rajkumar, Ph.D., Mississippi State University, Assistant Research Professor
  - Schmidt, Amy M., Ph.D., Mississippi State University, Assistant Extension Professor
  - Simpson, Chartrisa LaShan, Ph.D., Clemson University, Assistant Professor
  - Srinivasan, Radhakrishnan, Ph.D., University of Illinois at Urbana-Champaign, Assistant Research Professor
  - Tagert, Mary Love M., Ph.D., Mississippi State University, Assistant Research Professor
  - To, Filip Suminto D., Ph.D., Mississippi State University, Professor

- **Level 2**
  - Ward, Jason K., Ph.D., Mississippi State University, Assistant Extension Professor
  - Warnock, James Neil, 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

**Participant (T=Teach; C=Committee Member)**

- Bianchi, Marcus V. A., Ph.D., Purdue University, Building Science Program Lead, Owens Corning, C
- Brooks, John P., Ph.D., University of Arizona, Research Microbiologist, USDA, C
- Brown-Brandl, Tami, Ph.D., University of Kentucky, Agricultural Engineer, USDA-ARS, U.S. Meat Animal Research Center, Nebraska, C
- Butler, R. Allen, M.D., Tulane University School of Medicine, Doctor of Medicine, Mississippi Bone and Joint Clinic, C
- Columbus, Eugene P., M.S., Mississippi State University, Senior Research Associate, C
- Coolen, Lique M., Ph.D., University of Nijmegen (The Netherlands), Professor, Department of Physiology & Biophysics, University of Mississippi Medical Center, 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, Cardiologist, UMMC, C
- Hester, Robert L., Ph.D., University of Mississippi Medical Center, Professor, Department of Physiology & Biophysics, UMCC, C
- Hoff, Steven J., Ph.D., University of Minnesota, Professor, Agricultural and Biosystems Engineering, Iowa State University, C
Kerut, Kenneth, M.D., University of Mississippi School of Medicine, Cardiologist, UMMC, C
Kim, Hak-Kwan, Ph.D., Seoul National University (Korea), Research Associate, C
Lindsay, Merry L., Ph.D., Baylor College of Medicine, Professor, Department of Medicine, University of Texas Health Science Center-San Antonio, C
Montross, Michael D., Ph.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, C
Sassenrath, Gretchen F., Ph.D., University of Illinois, Urbana, Lead Scientist and Plant Physiologist, C
Yadav, Madhav P., Ph.D., Southern Illinois University, Research Chemist, C

Agricultural Economics

Level 1
Barnett, Barry J., Ph.D., University of Kentucky, Professor and Graduate Coordinator
Coble, Keith H., Ph.D., Texas A&M University, Professor
Falconer, Lawrence L., Ph.D., Texas A&M University, Extension Professor
Harri, Aridian, Ph.D., Oklahoma State University, Associate Professor
Herndon, Cary W., Jr., Ph.D., Oklahoma State University, Professor and Associate Vice President for Agriculture, Forestry & Veterinary Medicine
Hood, Kenneth W., Ph.D., Mississippi State University, Extension Professor
Little, Randall D., Ph.D., Oklahoma State University, Professor
Petrolia, Daniel R., Ph.D., University of Minnesota, Associate 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
Barnes, James N., Ph.D., University of Missouri, Assistant Extension Professor
Coatney, Kalyn T., Ph.D., University of Wyoming, Assistant Professor
Freeman, Matthew Alan, Ph.D., University of Rhode Island, Assistant Professor
Interis, Matthew G., Ph.D., The Ohio State University, Assistant Professor
Martin, Steven W., Ph.D., Mississippi State University, Extension/Research Professor and Head, North MS Research and Extension
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
Williams, Brian, Ph.D., Oklahoma State University, Assistant Extension Professor

Animal and Dairy Sciences

Level 1
Blanton, John, Jr., Ph.D., Purdue University, Professor and Department Head
Memili, Erdogan, Ph.D., University of Wisconsin-Madison, Associate Professor
Parish, Jane A., Ph.D., The University of Georgia, Extension Professor
Rude, Brian J., Ph.D., Auburn University, Professor and Graduate Coordinator
Ryan, Peter L., Ph.D., University of Guelph, Professor and Associate Provost
Smith, Trent, Ph.D., Louisiana State University, Associate Professor
Vann, Rhonda, Ph.D., Mississippi State University, Research Professor
Ward, Stephanie H., Ph.D., Virginia Polytechnic Institute and State University, Assistant Professor
Willard, Scott T., Ph.D., Texas A&M University, Professor and Department Head of Biochemistry, Molecular Biology, Entomology, and Plant Pathology

Level 2
Crenshaw, Mark, Ph.D., Mississippi State University, Extension Professor and Interim Associate Dean, CALS
Feugang, Jean M. N., Ph.D., Catholic University of Louvain (Belgium), Assistant Research Professor
Jousan, Dean, Ph.D., University of Florida, Associate Extension Professor
Karisch, Brandi M., Ph.D., Texas A&M University, Assistant Extension/Research Professor
Larson, Jamie, Ph.D., University of Minnesota, Assistant Professor
Lemley, Caleb O., Ph.D., West Virginia University, Assistant Professor
Liao, Shengfa, Ph.D., University of Alberta (Canada), 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

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
Cuadra, Evelin J., Ph.D., Mississippi State University, Professor of Animal Science, Alcorn State University, C
Cunningham, Frederick L., D.V.M., Mississippi State University, C

2013-2014 MSU Graduate Bulletin
Godfrey, Robert W., Ph.D., Texas A&M University, Research Professor, University of the Virgin Islands
Kaya, Abdullah, Ph.D., Selcuk University, Product Technology Specialist, Alfa 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
Rhinehart, Justin D., Ph.D., West Virginia University, Assistant Extension/Research Professor, University of Tennessee, C
Sartin, James L., Jr., Ph.D., Oklahoma State University, Professor, Auburn University, C
Sixten, Andrea K., Ph.D., Oklahoma State University, Assistant Professor, Department of Animal Sciences and Industry, Kansas State University, C
Ward, Paula Marie L., Ph.D., Rutgers University, Visiting Professor, Rutgers University; President/CEO MSC Marketing, C
Whitley, Niki C., Ph.D., Mississippi State University, Associate Professor, North Carolina A&T University, C
Williams, Cathleen C., Ph.D., Auburn University, Associate Professor of Dairy Science, Louisiana State University, C

Animal Physiology

Level 1
Blanton, John, Jr., Ph.D., Purdue University, Professor and Department Head, Animal and Dairy Sciences
Chambers, Howard W., Ph.D., University of California, Professor
Chambers, Janice E., Ph.D., Mississippi State University, Professor and Director, Center for Environmental Health Sciences
Hopper, Richard M., D.V.M., Auburn University, Professor
Larson, Jamie, Ph.D., University of Minnesota, Assistant Professor
Linford, Robert L., D.V.M., Colorado State University, Ph.D., University of California, Davis, Professor
McDaniel, Christopher D., Ph.D., University of Georgia, Professor
Memili, Erdogan, Ph.D., University of Wisconsin-Madison, Associate Professor
Peebles, E. David, Ph.D., North Carolina State University, Professor
Ryan, Peter L., Ph.D., University of Guelph, Professor, Graduate Coordinator and Associate Provost
Vann, Rhonda, Ph.D., Mississippi State University, Research Professor
Willard, Scott T., Ph.D., Texas A&M University, Professor and Department Head, Biochemistry, Molecular Biology, Entomology and Plant Pathology
Willeford, Kenneth O., Ph.D., University of California, Riverside, Professor and Graduate Coordinator
Wills, Robert W., D.V.M., University of Missouri; Ph.D., Iowa State University, Professor

Level 2
Chamblee, Timothy, Ph.D., Mississippi State University, Associate Professor and Director, Office of Institutional Research and Effectiveness

Christiansen, David, D.V.M., Mississippi State University, Assistant Clinical Professor
Feugang, Jean M. N., Ph.D., Catholic University of Louvain-la-Neuve (Belgium) Assistant Research Professor
Hoffman, Federico G., Ph.D., Texas Tech University, Assistant Professor
Jousan, Dean, Ph.D., University of Florida, Associate Extension Professor
Larson, Jamie, Ph.D., University of Minnesota, Assistant Professor
Lopez, Job E., Ph.D., Washington State University, Assistant Professor
Nicodemus, Molly C., Ph.D., Michigan State University, Associate Professor
Ray, David A., Ph.D., Texas Tech University, Assistant Professor
Smith, Trent, Ph.D., Louisiana State University, Associate Professor
Stewart, James A., Jr., Ph.D., Auburn University, Assistant Professor
Thornton, Justin A., Ph.D., University of Mississippi Medical Center, Assistant Professor
Zhai, Wei, Ph.D., Purdue University, Assistant Professor

Biochemistry, Molecular Biology, Entomology and Plant Pathology

Level 1
Allen, Thomas Ward, Jr., Ph.D., Auburn University, Extension/Research Professor
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
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., Mississippi State University, Associate Extension Professor
Edwards, Kristine T., Ph.D., Mississippi State University; D.V.M., Colorado State University, Assistant Research Professor
Goddard, Jerome, Ph.D., Mississippi State University, Associate Extension Professor
Gore, Jeffrey, Ph.D., Louisiana State University, Assistant Research Professor
Guyton, John W., III, Ed.D., Mississippi State University, Associate Extension Professor
<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Title/Role</th>
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<tbody>
<tr>
<td>Harris, Jeffrey W.</td>
<td>Ph.D., Louisiana State University, Assistant Extension Research Professor</td>
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<tr>
<td>Henn, R. Alan</td>
<td>Ph.D., University of Florida, Extension Professor</td>
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<td>Hoffman, Federico G.</td>
<td>Ph.D., Texas Tech University, Assistant Professor</td>
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<td>Ingram, David M.</td>
<td>Ph.D., Washington State University, Extension/Research Professor</td>
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<td>Krishnan, Natraj</td>
<td>Ph.D., Vidyasagar University (India), Assistant Professor</td>
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<td>Lawrence, Gary W.</td>
<td>Ph.D., Louisiana State University, Associate Professor</td>
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<td>Layton, M. Blake, Jr.</td>
<td>Ph.D., Louisiana State University, Extension Professor</td>
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<td>Li, Jiaxu</td>
<td>Ph.D., Pennsylvania State University, Associate Professor</td>
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<td>Lu, Shien</td>
<td>Ph.D., Washington State University, Associate Professor</td>
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<td>Ma, Din-Pow</td>
<td>Ph.D., Kent State University, Professor</td>
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<td>Ma, Peter W. K.</td>
<td>Ph.D., Cornell University, Associate Professor</td>
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<td>Meyer, Florencia</td>
<td>Ph.D., University of Nebraska, Assistant Professor</td>
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<td>Musser, Fred R.</td>
<td>Ph.D., Cornell University, Associate Professor</td>
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<td>Peng, Zhaohua</td>
<td>Ph.D., Ohio State University, Associate Professor</td>
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<td>Peterson, Daniel</td>
<td>Ph.D., Colorado State University, Professor</td>
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<td>Ph.D., Texas Tech University, Assistant Professor</td>
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<td>Reed, Jack T.</td>
<td>Ph.D., University of Arkansas, Research Professor</td>
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<td>Rechert, Nancy A.</td>
<td>Ph.D., New Mexico State University, Professor and Department Head of Biological Sciences</td>
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<td>Riggins, John J.</td>
<td>Ph.D., University of Arkansas at Fayetteville, Assistant Professor</td>
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<td>Sabanadzovic, Sead</td>
<td>Ph.D., University of Bari, Professor</td>
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<td>Schneider, John C.</td>
<td>Ph.D., Princeton University, Professor</td>
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<td>Sciumbato, Gabriel L.</td>
<td>Ph.D., Louisiana State University, Research Professor</td>
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<td>Shan, Xueyan</td>
<td>Ph.D., Montana State University, Assistant Research Professor</td>
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<td>Sparks, Darrell L., Jr.</td>
<td>Ph.D., Mississippi State University, Assistant Professor</td>
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<td>Tomaso-Peterson, Maria</td>
<td>Ph.D., Mississippi State University, Associate Research Professor</td>
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<td>Willard, Scott T.</td>
<td>Ph.D., Texas A&amp;M University, Professor and Department Head</td>
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<tr>
<td>Willeford, Kenneth</td>
<td>Ph.D., University of California, Riverside, Professor</td>
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**Level 2**

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<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Title/Role</th>
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<tbody>
<tr>
<td>Cook, Donald R.</td>
<td>Ph.D., Louisiana State University, Assistant Research Professor</td>
<td></td>
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<tr>
<td>Rodriguez, Jose M.</td>
<td>Ph.D., University of Idaho, Assistant Research Professor</td>
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<tr>
<td>Adamczyk, John Joseph, Jr.</td>
<td>Ph.D., Louisiana State University, Supervisory Research Entomologist, USDA-ARS, Thad Cochran Southern Horticultural Laboratory, C</td>
<td></td>
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<tr>
<td>Allen, Clint</td>
<td>Ph.D., University of Arkansas, Research Entomologist, USDA-ARS</td>
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<tr>
<td>Allison, Jeremy D.</td>
<td>Ph.D., University of California-Riverside, Assistant Professor</td>
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<tr>
<td>Balbalian, Clarissa J.</td>
<td>M.S., West Virginia University, Diagnostic Laboratory Manager, MSU</td>
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<tr>
<td>Boyle, John A.</td>
<td>Ph.D., Duke University, Professor Emeritus</td>
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<tr>
<td>Bridges, Susan M.</td>
<td>Ph.D., University of Alabama, Huntsville, Professor Emerita</td>
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<tr>
<td>Dakin, Matt Eitel</td>
<td>Ph.D., Auburn University, Professor (retired)</td>
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<tr>
<td>Gandhi, Kamal J. K.</td>
<td>Ph.D., University of Minnesota, Assistant Professor, Warnell School of Forestry and Natural Resources, University of Georgia</td>
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<tr>
<td>Holt, William</td>
<td>Ph.D., Royal Veterinary College (UK), Visiting Professor, Reproductive and Development Medicine, University of Sheffield (UK)</td>
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<td>Jackson, Ryan E.</td>
<td>Ph.D., North Carolina State University, Research Entomologist, USDA-ARS</td>
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<td>Jeffers, Steven N.</td>
<td>Ph.D., Cornell University, Associate Professor, Clemson University</td>
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<td>Jenkins, Johnie N.</td>
<td>Ph.D., Purdue University, Director, Crop Science Research Laboratory, USDA, C</td>
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<tr>
<td>Jones, Walker A.</td>
<td>Ph.D., Clemson University, Supervisory Research Entomologist, USDA-ARS</td>
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<tr>
<td>Kasper, Chase C.</td>
<td>M.B.A., Mississippi State University, Associate Director, Office of Entrepreneurship and Technology Transfer, MSU</td>
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<tr>
<td>Kouba, Andy J.</td>
<td>Ph.D., University of Florida, Director, Research &amp; Conservation; Head, Forest Health &amp; Restoration Ecology; Head, Reproductive Sciences, Memphis, TN, Zoo</td>
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<tr>
<td>Leonard, Billy Rogers</td>
<td>Ph.D., Louisiana State University, Professor of Entomology and Associate Vice Chancellor, LSU AgCenter</td>
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<tr>
<td>Luthe, Dawn</td>
<td>Ph.D., University of Wisconsin, Professor, Penn State University</td>
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<td>Luttrell, Randall G.</td>
<td>Ph.D., University of Arkansas, Research Leader, USDA ARS Southern Insect Management Research Unit</td>
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<td>McLaughlin, Michael R.</td>
<td>Ph.D., University of Illinois, Research Plant Pathologist, USDA-ARS</td>
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<td>Otte, Daniel</td>
<td>Ph.D., University of Michigan, Curator and Chair, The Academy of Natural Sciences</td>
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<tr>
<td>Rawlings, John E.</td>
<td>Ph.D., Cornell University, Head, Section of Invertebrate Zoology, Carnegie Museum of Natural History</td>
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<td>Shelton, Thomas G.</td>
<td>Ph.D., Auburn University, Research Entomologist, USDA-FS-SRS</td>
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<td>Smith, James L.</td>
<td>Ph.D., University of Florida, Assistant Professor, Texas A&amp;M University, C</td>
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<td>Snodgrass, Gordon L.</td>
<td>Ph.D., Mississippi State University, Research Entomologist, USDA-ARS</td>
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<tr>
<td>Solis, M. Alma</td>
<td>Ph.D., University of Maryland, College Park, Research Entomologist, USDA-ARS</td>
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<tr>
<td>Stevens, Richard D.</td>
<td>Ph.D., Texas Tech University, Associate Professor, Louisiana State University</td>
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<tr>
<td>Stewart, Scott D.</td>
<td>Ph.D., Auburn University, Professor of Entomology, University of Tennessee, C</td>
<td></td>
</tr>
</tbody>
</table>
Food Science, Nutrition and Health Promotion

**Level 1**

**Byrd, Sylvia H.**, Ph.D., Mississippi State University, Professor (Nutrition)

**Chang, Sam K. C.**, Ph.D., University of Nebraska-Lincoln, Professor and Department Head (Food Science and Technology)

**Fountain, Brent J.**, Ph.D., Mississippi State University, Associate Extension Professor (Nutrition)

**Haque, Zahur Z.**, Ph.D., Kyoto University, Professor and Graduate Coordinator (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), Associate Research Professor (Food Science and Technology)

**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 (Food Science and Technology)

**Tidwell, Diane K.**, Ph.D., Mississippi State University, Associate Professor (Nutrition)

**Williams, J. Byron**, Ph.D., Mississippi State University, Assistant Extension/Research Professor (Food Science and Technology)

**Williams, Ronald D.**, Ph.D., University of Alabama, Assistant Professor (Health Promotion)

**Level 2**

**Briley, Chiquita A.**, Ph.D., University of Nebraska-Lincoln, Associate Professor (Nutrition)

**Carew, Bonnie L.**, Ph.D., Mississippi State University, Assistant Extension Professor (Health Promotion)

**Hood, Anna F.**, Ph.D., Mississippi State University, Extension Professor (Food Science and Technology)

**Kim, Taejo**, Ph.D., Mississippi State University, Assistant Research Professor (Food Science and Technology)

**Mahmoud, Barakat S. M.**, Ph.D., Hokkaido University (Japan), Assistant Extension/Research Professor

Notes: (T=Teach; C=Committee Member)

**Black, Connie R.**, Ph.D., Mississippi State University, Director of Food & Nutrition Services, North Mississippi Medical Center-Eupora, T

**Burney, Sandra Lynn B.**, Ph.D., Mississippi State University, Instructor, C, T

**Chen, Tsun C.**, Ph.D., University of Massachusetts, Professor Emeritus, C

**Ghavimii, 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

**Joseph, Poulsom, Ph.D.**, University of Kentucky, Research Associate, 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

**Match, June Renee, M.S.**, Pennsylvania State University, Instructor/Assistant Director Didactic Program in Dietetics, T

**Moraes, Rita M.**, Ph.D., Mississippi State University, Associate Research Professor, National Center for Natural Products Research, C

**Newman, Melissa C.**, Ph.D., University of Kentucky, Lecturer, T

**Smith, Brian S.**, Ph.D., Louisiana State University, Director, Business Development – Food Ingredients, Hawksins, Inc., C

**Solaiman, Sandra G.**, Ph.D., University of Missouri, Professor of Agricultural and Environmental Sciences, Tuskegee University, C

**Sommers, Christopher H.**, Ph.D., University of Rochester, Research Leader, USDA-ARS, Eastern Regional Research Center, Wyndmoor, PA, C

**Soni, Kamlesh A.**, Ph.D., Texas A&M University, Research Associate III, C

**Thaxton, Yvonne V.**, Ph.D., Auburn University, Professor Emerita, 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**

**Downey, Laura Hall**, Ph.D., University of Kentucky, Assistant Extension Professor

**Jackson, Gary B.**, Ph.D., The Pennsylvania State University, Associate Professor and Director of Extension

**Newman, Michael E.**, Ph.D., Mississippi State University, Professor and Director of Human Sciences

**Peterson, Donna J.**, Ph.D., University of Arizona, Assistant Extension Professor

**Sexton, Julie S.**, Ph.D., Mississippi State University, Extension Professor

**Swortzel, Kirk A.**, Ph.D., Ohio State University, Professor and Graduate Coordinator
Threadgill, Paula I., Ph.D., Mississippi State University, Extension Professor
White, Ronnie W., Ph.D., Mississippi State University, Extension Professor
Wimmer, Gaea, Ph.D., Texas Tech University, Assistant Professor

Level 2

Giesemann, John T., Ph.D., Mississippi State University, Extension Professor
Long, John L., Ph.D., Mississippi State University, Assistant Extension Professor

Associate

Oldham, Dehilia Rae, Ph.D., Colorado State University, Extension Professor

Participant (T=Teach; C=Committee Member)
Browning, Ned, Ph.D., University of Tennessee, Extension Professor (Retired), C
Deeds, Jacquelyn P., Ph.D., Ohio State University, Professor (Retired), C

School of Human Sciences

Human Sciences

Level 1

Davis, Louise E., Ph.D., Mississippi State University, Extension Professor
Downey, Laura Hall, Ph.D., University of Kentucky, Assistant Extension Professor
Shaffett, Bobbie D., Ph.D., Louisiana State University, Extension Professor
Peterson, Donna J., Ph.D., University of Arizona, Assistant Extension Professor
Phillips, Tommy M., Ph.D., Auburn University, Assistant Professor and Graduate Coordinator
Wilmoth, Joe D., Ph.D., Oklahoma State University, Associate Professor

Level 2

Duncan, Beth, Ph.D., Mississippi State University, Extension Professor
Elmore-Staton, Lori D., Ph.D., Auburn University, Assistant Professor
Kirkland, Cassandra, Ph.D., Auburn University, Assistant Extension Professor
Miller, Phyllis B., Ph.D., University of Tennessee, Professor
Parker, Julie C., Ph.D., Northcentral University, Assistant Professor

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Mushi, Richard J., Ph.D., Jackson State University, Assistant Professor, MS Valley State University, C

Landscape Architecture

Level 1

Artunc, Sadik, M.L.A., University of Michigan, Professor, and Department Head
Brzuszek, Robert F., M.L.A., Louisiana State University, Associate Professor
Melby, Philip O., M.L.A., Louisiana State University, Professor
Schauswecker, Timothy J., Ph.D., Mississippi State University, Associate Professor
Seymour, Michael, M.L.A., Louisiana State University, Associate Professor and Graduate Coordinator

Level 2

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

Fulford, Charles Taze, III, M. Arch, University of Idaho, Associate Professor
Gallo, Warren C., M.U.D., University of Michigan, Assistant Professor
Li, Chuo, Ph.D., University of Illinois at Urbana-Champaign, Assistant Professor
Payne, Elizabeth, M.Phil., School of Landscape Architecture, University of Edinburgh (Scotland), Assistant Professor

Participant (T=Teach; C=Committee Member)
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Plant and Soil Sciences

Level 1

Bachman, Gary R., Ph.D., The Ohio State University, Associate Extension/Research Professor
Baldwin, Brian S., Ph.D., New Mexico State University, Professor
Bi, Guihong, Ph.D., Oregon State University, Associate Research Professor
Buehring, Normie W., Ph.D., Oklahoma State University, Research Professor
Byrd, John D., Ph.D., North Carolina State University, Extension/Research Professor
Coker, Christine H., Ph.D., Auburn University, Associate Research Professor
Cox, Michael S., Ph.D., Louisiana State University, Professor
Golden, Bobby R., Ph.D., University of Arkansas, Assistant Research Professor
Harkess, Richard L., Ph.D., Virginia Polytechnic Institute and State University, Professor
Kingery, William L., Ph.D., Auburn University, Professor and Graduate Coordinator
Knight, Patricia R., Ph.D., Virginia Tech, Extension/Research Professor & Head, Coastal Research and Extension Center
Lang, David J., Ph.D., University of New Hampshire, Associate Professor
Larson, Erick, Ph.D., University of Nebraska-Lincoln, Associate Extension/Research Professor
Lemus, Rocky W., Ph.D., Virginia Polytechnic Institute and State University, Assistant Extension Professor
Macoon, Bisooondat, Ph.D., University of Florida, Associate Research Professor
Madsen, John D., Ph.D., University of Wisconsin, Associate Extension/Research Professor
Massey, Joseph H., Ph.D., University of Arkansas, Associate Professor
Matta, Frank B., Ph.D., Texas A&M University, Professor
Peterson, Daniel G., Ph.D., Colorado State University, Professor
Phillips, J. Mike, Ph.D., University of Arkansas, Professor and Department Head
Reddy, K. Raja, Ph.D., Sri Venkateswara University, Research Professor
Reichert, Nancy A., Ph.D., New Mexico State University, Professor and Head of Department of Biological Sciences
Reynolds, Daniel B., Ph.D., Oklahoma State University, Professor & Endowed Chair
Rowe, Dennis E., Ph.D., Pennsylvania State University, Research Professor
Shankle, Mark W., Ph.D., Mississippi State University, Research Professor
Shaw, David R., Ph.D., Oklahoma State University, William L. Giles Distinguished Professor and Vice President for Research and Economic Development
Snyder, Richard G., Ph.D., Cornell University, Extension/Research Professor
Stewart, Barry R., Ph.D., Virginia Polytechnic Institute and State University, Associate Professor
Varco, Ted, 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

Level 2

Arancibia, Ramón A., Ph.D., Louisiana State University, Assistant Research Professor
Baldwin, Christian, Ph.D., Clemson University, Assistant Professor
Blythe, Eugene K., Ph.D., Auburn University, Associate Research Professor
Bond, Jason A., Ph.D., University of Arkansas, Associate Research/Extension Professor
Braswell, John H., Ph.D., Mississippi State University, Extension Professor
Buehring, Nathan, Ph.D., Mississippi State University, Associate Extension Professor
Collins, Pamela C., Ph.D., Mississippi State University, Assistant Research Professor
Crouse, Karl K., Ph.D., Mississippi State University, Assistant Extension Professor
DelPrince, James, Ph.D., Mississippi State University, Professor
Denny, Geoffrey C., Ph.D., Texas A&M University, Assistant Extension Professor
Dodds, Darrin M., Ph.D., Mississippi State University, Associate Extension Professor
Ebelhar, M. Wayne, Ph.D., University of Illinois, Research Professor
Eubank, Thomas W., Ph.D., Mississippi State University, Assistant Research/Extension Professor
Evans, William B., Ph.D., Michigan State University, Associate Research Professor
Henry, W. Brien, Ph.D., Mississippi State University, Associate Professor
Irby, J. Trenton, Ph.D., Mississippi State University, Assistant Extension Professor
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Kelly, Leila Scott, Ph.D., Mississippi State University, Extension Professor
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Walker, Timothy W., Ph.D., Mississippi State University, Research Professor

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Smith, James R. (Rusty), Ph.D., University of Illinois, Research Plant Geneticist, USDA-ARS, C
Steckel, Lawrence E., Ph.D., University of Illinois, Associate Professor, University of Tennessee, C
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Willers, Jeffrey L., Ph.D., Mississippi State University, Research Entomologist, USDA-ARS, C
Williams, Mark A., Ph.D., Kansas State University, Assistant Professor, Virginia Tech University, C
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Poultry Science

Level 1
Beck, Mary M., Ph. D., University of Maryland, Professor and Department Head
Farnell, Morgan B., Ph.D., Texas A&M University, Associate Professor
Kiess, Aaron S., Ph.D., West Virginia University, Assistant Professor
McDaniel, Christopher D., Ph.D., University of Georgia, Professor and Graduate Coordinator

Peebles, E. David, Ph.D., North Carolina State University, Professor
Tabler, Thomas, Ph.D., University of Arkansas, Extension Professor

Level 2
Chamblee, Timothy, Ph.D., Mississippi State University, Associate Professor and Director, Office of Institutional Research and Effectiveness
Sharma, Chander Shekhar, Ph.D., University of Florida, Assistant Professor
Wamsley, Kelley G. S., Ph.D., West Virginia University, Assistant Professor
Zhai, Wei, Ph.D., Purdue University, Assistant Professor Participant (T=Teach; C=Committee Member)
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Collier, Stephanie D., Ph.D., Mississippi State University, Biologist, USDA-ARS, C
Corzo, Alejandro, Ph.D., Auburn University, Research Scientist/Poultry Development, Elanco, C
Cummings, Timothy S., D.V.M., Mississippi State University, Senior Technical Services Veterinarian, Pfizer, C
Dozier, W. A., III, Ph.D. Auburn University, Poultry Nutritionist, Auburn University, C
Evans, Jeff D., Ph.D., University of Georgia; Microbiologist, USDA-ARS, C
Giesen, Andrew F., Ph.D., Auburn University, USDA-ARS Research Scientist, 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
Kim, Elizabeth J., Ph.D., University of Illinois at Urbana-Champaign, Research Animal Scientist, C
Leigh, Spencer A., Ph.D., University of Missouri, Research Microbiologist, USDA-ARS, C
Mejia, Leonel, Ph.D., Mississippi State University, Research Scientist, DSM Nutritional Products, C
Olanrewaju, Hammed A., Ph.D., University of Tennessee, Research Animal Scientist, USDA ARS, C
Purswell, Joseph L., Ph.D., University of Kentucky, Agricultural Engineer, USDA, C
Scanes, Colin G., Ph.D., University of Wales, D.Sc., Hull University (U.K), Professor, University of Wisconsin, C
Vizzier-Thaxton, Yvonne, Ph.D., Auburn University, Professor (Retired), C
Williams, Christopher J., Ph.D., North Carolina State University, Director, Technical Service, Pfizer Animal Health, C

COLLEGE OF ARCHITECTURE, ART, AND DESIGN

Art

Level 2
Bostic, Alexander, M.A., Syracuse University, Associate Professor
Bourgeois, Angi E., Ph.D., Emory University, Associate Professor
Campbell, Critz, M.F.D., Parnham College (UK), Associate Professor
### 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, Professor and Associate Dean of College of Architecture, Art, and Design
- McCann, Rachel E., R.A., Ph.D., Architectural Association School of Architecture-London, Professor
- Perkes, David, R.A., M.Arch., University of Utah, Professor
- West, James L., R.A., M.Arch., University of Florida, Professor and Dean of College of Architecture, Art, and Design

**Level 2**

- Callender, Jassen, M.F.A., University of Minnesota, Associate Professor
- Greenwood, Jane, R.A., M.Arch., Virginia Polytechnic Institute and State University, Associate Professor
- Gregory, Alexis Denise, R.A., M.S.Arch., Clemson University, Assistant Professor
- Herrmann, Hans C., R.A., M.Arch., Clemson University, Assistant Professor
- Poros, John, R.A., M.Arch., Harvard University GSD, Associate Professor
- Taylor, Justin, M.S.Arch., Mississippi State University, Assistant Professor
- Tripp, Andrew Reed, M.S.Arch., University of Pennsylvania School of Design, Assistant Professor

### Biological Sciences

**Level 1**

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- Chevalier, David, Ph.D., University of Zurich (Switzerland), Assistant Professor
- Coats, Karen, Ph.D., Louisiana State University, Professor and Associate Dean of the Graduate School
- Counterman, Brian A., Ph.D., Duke University, Assistant Professor
- Diehl, Walter J., Ph.D., University of South Florida, Professor and Associate Dean, College of Arts and Sciences
- Donaldson, Janet R., Ph.D., Mississippi State University, Assistant Professor
- Ervin, Gary N., Ph.D., University of Alabama, Professor and Graduate Coordinator
- Gordon, Donna M., Ph.D., University of Pennsylvania School of Medicine, Assistant Professor
- Klink, Vincent, Ph.D., The University of Maryland, Assistant Professor
- Lopez, Job E., Ph.D., Washington State University, Assistant Professor
- Munn, Giselle, Ph.D., University of Kansas, Associate Professor
- Outlaw, Diana C., Ph.D., University of Memphis, Assistant Professor
- Reichert, Nancy A., Ph.D., New Mexico State University, Professor, Department Head and Graduate Coordinator (GBIO)
- Stewart, James A., Jr., Ph.D., Auburn University, Assistant Professor
- Thornton, Justin A., Ph.D., University of Mississippi Medical Center, Assistant Professor
- Wallace, Lisa, Ph.D., Ohio State University, Associate Professor
- Welch, Mark E., Ph.D., Indiana University, Assistant Professor
Wise, Dwayne A., Ph.D., Florida State University, Professor

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Voelker, Gary A., Ph.D., University of Washington, Assistant Professor and Curator of Birds, Texas A&M University, C

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Chemistry

Level 1

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Fitzkee, Nicholas C., Ph.D., Johns Hopkins University, Assistant Professor

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

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Lewis, Edwin A., Ph.D., University of New Mexico, Professor and Department Head

Mead, Keith T., Ph.D., Southampton University, Professor

Mlsna, Debra Ann, PhD., University of Texas, Assistant Professor

Mlsna, 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, Cand. Real. (Ph.D.), University of Tromso (Norway), Professor

Sygula, Andrzej, Ph.D., Jagiellonian University, Professor

Wipf, David, Ph.D., Indiana University, Professor

Zhang, Dongmiao, Ph.D., Purdue University, Assistant Professor

Level 2

Beard, Debbie J., Ph.D., Mississippi State University, Assistant Research Professor

Armbrust, Kevin L., Ph.D., University of California at Davis, Associate Professor and Director, Mississippi State Chemical Laboratory

Rodriguez, Jose M., Ph.D., University of Idaho, Assistant Research Professor and Director, Petroleum Products, MS State Chemical Lab

Participant (T=Teach; C=Committee Member)

Frisch, 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

Wilson, W. William, Ph.D., University of North Carolina, Professor Emeritus, C

Xia, Kang, Ph.D., University of Wisconsin-Madison, Associate Professor, Virginia Tech, C

Classical & Modern Languages and Literatures

Level 1

Clark, Mark E., Ph.D., Indiana University, Associate Professor (Classics)

Harland, Robert J. E., Ph.D. University of Wales, Associate Professor (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

Arroyo, Silvia, Ph.D., University of Colorado, Assistant Professor (Spanish)

Davison, Brian M., Ph.D., University of California-Davis, 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)

Moser, Keith A., Ph.D., University of Tennessee, Assistant Professor (French)

Pelaez, Sol I., Ph.D., University at Buffalo SUNY, Assistant Professor (Spanish)

Simpore, Karim, Ph.D., University of Louisiana at Lafayette, Assistant Professor (French)

Associate

Dunn-Whitener, Maryjane, Ph.D., University of Pennsylvania, Visiting Assistant Professor (Spanish)

Communication

Level 2

Clevinger, Donna L., Ph.D., University of Michigan, Ann Arbor, Professor

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Durst, Robert W., M.F.A., University of Alabama, Associate Professor
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, Associate 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, Associate Professor

English

Level 1

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Claggett, Shalyn R., Ph.D., Vanderbilt University, Associate 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
Johnson, Holly, Ph.D., University of North Carolina at Chapel Hill, Associate Professor
Kardos, Michael P., Ph.D., University of Missouri, Associate Professor
Lyons, Richard, Ph.D., University of Houston, Professor
Marsh, Kelly, Ph.D., The Pennsylvania State University, Associate Professor
Pierce, Catherine, Ph.D., University of Missouri, Associate Professor of English
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

DeGabriele, Peter, Ph.D., University at Buffalo-SUNY, Assistant Professor
Fogle, Evelyn Wright, Ph.D., Georgetown University, Assistant Professor
Herd, Wendy, Ph.D., University of Kansas, Assistant Professor
Kelley, James B., Ph.D., University of Tulsa, Associate Professor
Little, Matthew W., Ph.D., University of Chicago, Associate Professor

O’Neill, Bonnie C., Ph.D., Washington University, Assistant Professor
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Participant (T=Teach; C=Committee Member)

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Geosciences

Level 1

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Kirkland, Brenda L., Ph.D., Louisiana State University, Associate Professor
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Mercer, Andrew E., Ph.D., University of Oklahoma, Assistant Professor
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Schmitz, Darrel W., Ph.D., Texas A&M University, Professor
Sherman-Morris, Kathleen, Ph.D., Florida State University, Associate Professor

Level 2

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Mostovoi, Gueorgui V., Ph.D., Moscow State University, Meteorologist, Stennis Space Center, C
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Veeramony, Jayaram, Ph.D., University of Delaware, Civil Engineer, Stennis Space Center, C

History
Level 1
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Giesen, James C., Ph.D., University of Georgia, Associate Professor
Greene, Alison Collins, Ph.D., Yale University, Assistant Professor
Hay, William Anthony, Ph.D., University of Virginia, Associate Professor
Hersey, Mark D., Ph.D., University of Kansas, Associate Professor
Hui, Alexandra E., Ph.D., University of California at Los Angeles, Assistant Professor

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Marshall, Anne E., Ph.D., University of Georgia, Associate Professor
Martucci, Jessica, Ph.D., University of Pennsylvania, Assistant Professor
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Middleton, Stephen, Ph.D., Miami University, Professor and Director, African American Studies
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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
Snyder, Christopher A., Ph.D., Emory University, Professor and Dean, Honors College
Uzoigwe, Godfrey N., D.Phil., Oxford University, England, Professor
Ward, Jason M., Ph.D., Yale University, Associate 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, C
Grill, John Peter 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 and Graduate Coordinator
Kim, Seongjai, Ph.D., Purdue University, Associate Professor (Mathematics)
Lim, Hyeona, Ph.D., Michigan State University, Associate Professor (Mathematics)
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 (West Germany) Professor (Mathematics)
Oppenheimer, Seth F., Ph.D., University of Texas at Austin, Professor (Mathematics)
Qian, Chuanxi, Ph.D., University of Rhode Island, Professor (Mathematics)

Razzaghi, Mohsen, Ph.D., University of Sussex (England), Professor (Mathematics) and Department Head

Shontz, Suzanne M., Ph.D., Cornell University, Assistant Professor (Mathematics)

Xu, Xiangsheng, Ph.D., University of Texas at Austin, Professor (Mathematics)

Level 2

DuBien, Janice, Ph.D., Oklahoma State University, Associate Professor (Statistics)

Fabel, Paul, Ph.D., University of Texas at Austin, Associate Professor (Mathematics)

Sepehrifar, Mohammad, Ph.D., University of Central Florida, Assistant Professor (Statistics)

Shows, Justin H., Ph.D., North Carolina State University, Assistant Professor (Statistics)

Smith, Robert C., Ph.D., University of Arkansas, Associate Professor (Mathematics)

Woodroffe, Russell, Ph.D., Cornell University, Assistant Professor (Mathematics)

Woody, Jonathan R., Ph.D., Clemson University, Assistant Professor (Statistics)

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

Shivaji, Ratnasingham, Ph.D., Heriot-Watt University, Edinburgh (Scotland), H. Barton Excellence Professor and Head, Department of Mathematics & Statistics, The University of North Carolina at Greensboro (Mathematics), C

Zhang, Haimeng, Ph.D., University of Southern California, Associate Professor (Statistics), C

Philosophy and Religion

Level 1

Bickle, John, Ph.D., University of California, Irvine, Professor (Philosophy) and Department Head

Edelmann, Jonathan B., Ph.D., University of Oxford, Assistant Professor (Philosophy)

Phillips, Trisha B., Ph.D., Rice University, Associate Professor (Philosophy)

Level 2

Clifford, Michael R., Ph.D., Vanderbilt University, Professor (Philosophy)

Holt, D. Lynn, Ph.D., Vanderbilt University, Professor (Philosophy)

Moffatt, Barton, Ph.D., University of Minnesota, Assistant Professor (Philosophy)

Thompson, James Robert, Ph.D., Washington University, Assistant Professor (Philosophy)

Witt, Joseph D., Ph.D., University of Florida, Assistant Professor (Religion)

Physics and Astronomy

Level 1

Afanasjevs, Anatolijis, Ph.D., Latvian Academy of Sciences; Ph.D., Latvian State University, Professor

Arnoldus, Hendrik F., Ph.D., Utrecht University, Professor

Berg, Matthew J., Ph.D., Kansas State University, Assistant Professor

Clay, R. Torsten, Ph.D., The American University, Professor

Dunne, James A., Ph.D., The University of Illinois, Associate Professor

Dutta, Dipankar, Ph.D., Northwestern University, Associate 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

Su, Yi, Ph.D., Wayne State University, Research Professor

Tanner, Angelle M., Ph.D., UCLA, Assistant Professor

Waggoner, Charles A., Ph.D., Mississippi State University, Research Professor

Wang, Chuji, Ph.D., University of Science and Technology of China, Associate Professor

Winger, Jeffry A., Ph.D., Iowa State University, Professor

Ye, Jinwu, Ph.D., Yale University, Associate Professor

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Foley, John T., Ph.D., University of Rochester, Professor (Retired), C

Gaskell, David, Ph.D., Oregon State University, Staff Scientist II, Thomas Jefferson National Accelerator Facility, C

McIntyre, Dustin L., Ph.D., West Virginia University, Mechanical Engineer, C

Park, Brent K., Ph.D., Ohio University, Associate Laboratory Director, Oak Ridge National Laboratory (ORNL), C

Rybackowski, Krzysztof Piotr, Ph.D., Warsaw University, Distinguished Staff Member, Physics Division, Oak Ridge National Laboratory, C

Singh, Jagdish P., Ph.D., Banaras Hindu University, Research Professor, C
Political Science and Public Administration

**Level 1**

Buchanan, Robert J., Ph.D., University of Virginia, Professor

Emison, Gerald A., Ph.D., University of North Carolina at Chapel Hill, Professor

French, P. Edward, Ph.D., Mississippi State University, Associate Professor and Graduate Coordinator

Mellen, Robbin B. Jr., Ph.D., Washington State University, Assistant Professor

Morrison, Minion K. C., Ph.D., University of Wisconsin-Madison, Professor and Department Head, Senior Fellow in African American Studies

Park, Johann, Ph.D., Michigan State University, Assistant Professor

Perry, Ravi K., Ph.D., Brown University, Assistant Professor

Radin, Dagmar, Ph.D., University of North Texas, Associate Professor

Rush, Christine L., Ph.D., University of Georgia, Assistant Professor

Shaffer, Stephen D., Ph.D., Ohio State University, Assistant Professor

Shoup, Brian D., Ph.D., Indiana University, Assistant Professor

Stanishevski, Dragan, Ph.D., Florida Atlantic University, Associate Professor

Travis, Rick, Ph.D., University of Georgia, Professor and Interim Associate Dean, College of Arts and Sciences

Zavattaro, Staci, Ph.D., Florida Atlantic University, Assistant Professor

**Level 2**

Gallardo Estrella, Roberto, Ph.D., Mississippi State University, Assistant Extension Professor

Wiseman, William M., Ph.D., Mississippi State University, Professor and Director, John C. Stennis Institute of Government

Participants (T=Teach; C=Committee Member)

Adams, Joe, Ph.D., Vanderbilt University, Research Coordinator, Public Affairs Research Council of Alabama, T

Goodman, Doug, Ph.D., University of Utah, Associate Professor of Public Affairs, University of Texas-Dallas, C

Miller, Chad R., Ph.D., Virginia Polytechnic & State University, Assistant Professor, University of Southern Mississippi, C

Orgeron, Craig P., Ph.D., Mississippi State University, Executive Director, Mississippi Department of Information Technology Services; Lecturer, T

Smith, Marshall Cade, Ph.D., Mississippi State University, Assistant Dean of Students/Director, Student Leadership and Community Engagement, 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

Berman, Mitchell E., Ph.D., Kent State University, Professor and Department Head

**Level 2**

Barranco, Raymond Edward, Ph.D., Louisiana State University, Assistant Professor

Boyd, Robert L., Ph.D., University of North Carolina-Chapel Hill, Professor

Cosby, Arthur G., Ph.D., Mississippi State University, Giles Distinguished Professor; Director, Social Science Research Center (SSRC)

Cossman, Jeralynn S., Ph.D., Florida State University, Professor and Department Chair

Dunaway, R. Gregory, Ph.D., University of Cincinnati, Professor and Dean, College of Arts and Sciences

Haynes, Stacy H., Ph.D., Pennsylvania State University, Assistant Professor

Kelly, Kimberly C., Ph.D., University of Georgia, Assistant Professor

Matthews, Shelley K., Ph.D., Emory University, Assistant Professor

May, David C., Ph.D., Mississippi State University, Associate Professor

Parisi, Domenico, Ph.D., Pennsylvania State University, Professor

Rader, Nicole E., Ph.D., Southern Illinois University, Associate Professor and Graduate Coordinator

Schewe, Rebecca L., Ph.D., University of Wisconsin-Madison, Assistant Professor

**Sociology**

**Level 1**

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Cruden, Adele, Ph.D., Mississippi State University, Professor
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Ragsdale, Kathleen, Ph.D., Ohio State University, Research Professor
Ragstock, Angela A., Ph.D., Mississippi State University, Research Professor
Swindell, Marian L., Ph.D., University of Alabama, Associate Professor

COLLEGE OF BUSINESS
Adkerson School of Accountancy
Level 1
Addy, Noel D., C.P.A., Ph.D., University of Florida, Associate 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
Watson, Marcia L., Ph.D., University of Texas, Associate Professor and Graduate Coordinator
Level 2
Carver, Brian T., Ph.D., University of Tennessee, Assistant Professor
Ennis, Kevin L., Ph.D., Jackson State University, Associate Professor
Henderson, Charlene, Ph.D., Arizona State University, Assistant Professor
Trinkle, Brad S., Ph.D., University of Alabama, 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
Participating (T=Teach; C=Committee Member)
Allen, Paul W., D.B.A., Mississippi State University, Professor Emeritus, T
Lehman, Mark W., CPA, Ph.D., University of Mississippi, Lecturer, T, C
Pannell, Angela L., M.S., University of New Orleans, Instructor, T

Finance and Economics
Level 1
Campbell, Randall C., Ph.D., Louisiana State University, Associate Professor (Economics) and Graduate Coordinator (Economics)
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Liano, Kartono, Ph.D., University of Alabama, Professor (Finance)
Millea, Meghan J., Ph.D., University of Nebraska-Lincoln, Professor (Economics)
Miller, Thomas W., Jr., Ph.D., University of Washington, Professor (Finance) and Jack R. Lee Chair of Financial Institutions and Consumer Finance
Rezek, Jon, Ph.D., University of Nebraska-Lincoln, Associate Professor (Economics) and Interim Associate Vice President & Exec Director, International Institute
Rogers, Kevin E., Ph.D., University of Georgia, Professor (Economics) and Associate Dean, College of Business
Roskelley, Kenneth D., Ph.D., University of Arizona, Associate Professor (Finance), BancorpSouth Professor of Financial Services, and Graduate Coordinator (Finance)
Thomas, M. Kathleen, Ph.D., Georgia State University, Associate Professor (Economics)

Level 2
Cline, Brandon N., Ph.D., Ph.D., University of Alabama, Assistant Professor (Finance) and Renasant Bank Faculty Fellow in Finance
Orozco-Aleman, Sandra L., Ph.D., University of Pittsburgh, Assistant Professor (Economics)
Spurlin, William Paul III, Ph.D., University of Mississippi, Assistant Professor (Finance)
Topolyan, Iryna, Ph.D., Purdue University, Assistant Professor (Economics)
Wade, Lloyd R., Ph.D., University of Mississippi, Assistant Professor (Insurance)
Williamson, Claudia R., Ph.D., West Virginia University, Assistant Professor (Economics)
Young, Brian E., Ph.D., Arizona State University, Assistant Professor (Finance)

Management and Information Systems
Level 1
Barnett, Timothy R., D.B.A., Mississippi State University, Professor (Management) and Department Head
Chrisman, James J., Ph.D., University of Georgia, Professor (Management)
Holt, Daniel T., Ph.D., Auburn University, Assistant Professor (Management)
Long, Rebecca G., Ph.D., Louisiana State University, Associate Professor (Management) and Graduate Coordinator, MBA and PhD Programs
Maret, Kent, Ph.D., Florida State University, Associate Professor (Information Systems)
Oswald, Sharon L., Ph.D., University of Alabama, Professor and Dean, College of Business
Otondo, Robert F., Ph.D., Arizona State University, Associate Professor (Management)
Pearson, Allison W., Ph.D., Auburn University, Professor (Management)
Pearson, Rodney A., D.B.A., Harvard University, Professor (Information Systems)
Spencer, Barbara A., Ph.D., Virginia Polytechnic Institute and State University, Professor (Management)
Taylor, G. Stephen, Ph.D., Virginia Polytechnic Institute and State University, Professor (Management) and Interim Executive Director, Center for Distance Education
Warkentin, Merrill, Ph.D., University of Nebraska-Lincoln, Professor (Information Systems) and Graduate Coordinator

Level 2
Crosler, Robert E., Ph.D., Virginia Tech, Assistant Professor (Information Systems)
Daspit, Joshua J., Ph.D., University of North Texas, Assistant Professor (Management)
Marler, Laura E., D.B.A., Louisiana Tech University, Assistant Professor (Management)
Penney, Christopher R., Ph.D., Florida State University, Assistant Professor (Management)
Randle, Vikki Natasha Wilkins, Ph.D., Jackson State University, Associate Professor (Management)
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Vardaman, James M., Ph.D., University of Memphis, Assistant Professor (Management)

Participant (T=Teach; C=Committee Member)
Johnston, Allen C., Ph.D., Mississippi State University, Associate Professor, School of Business, University of Alabama at Birmingham
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Marketing, Quantitative Analysis, and Business Law
Level 1
Collie, Joel E., Ph.D., University of Memphis, Associate Professor (Marketing)
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Moore, Melissa, Ph.D., University of Connecticut, Professor (Marketing)
Taylor, Ronald D., Ph.D., University of North Texas, Professor (Marketing)
Webster, Cynthia, Ph.D., University of North Texas, Professor (Marketing)

Level 2
Adams, Frank G., Ph.D., University of Business Administration, Assistant Professor (Marketing)
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Hill, William Wesley II, Ph.D., University of Alabama, Assistant Professor (Marketing)

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Liddell, Pearson, Jr., J.D., Howard University School of Law, Professor (Business Law)
Moore, Robert S., Ph.D., University of Connecticut, Professor (Marketing)
Shanahan, Kevin J., Ph.D., New Mexico State University, Associate Professor (Marketing)
Sullivan, Joe, Ph.D., University of Alabama, Professor (Quantitative Analysis)

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Breazeale, Michael J., Ph.D., Mississippi State University, Assistant Professor, University of Nebraska-Omaha, C
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COLLEGE OF EDUCATION
Counseling and Educational Psychology
Level 1
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, Associate Professor
Heiselt, April K., Ph.D., University of Utah, Associate Professor
Henington, Carlen, Ph.D., Texas A & M University, Associate Professor
Looby, Eugenie J., Ph.D., University of Georgia, Professor
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Morse, David T., Ph.D., Florida State University, Professor and Graduate Coordinator (EPY)
Morse, Linda W., Ph.D., Florida State University, Professor
Palmer, Charles D., Ph.D., University of Arkansas, Associate Professor and Graduate Coordinator (COE)
Porter, Julia Y., Ph.D., Louisiana State University, Professor
Watson, Joshua C., Ph.D., University of North Carolina at Greensboro, Associate Professor
Wong, Daniel W., Ph.D., University of Northern Colorado, Professor and Department Head
Wozny, Darren A., Ph.D., Iowa State University, Associate Professor

Level 2
Abernathy, Larry Ty, Ph.D., Mississippi State University, Assistant Research Professor
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
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
Wang, Chih-Hsuan, Ph.D., Auburn University, Assistant Professor
Wolverton, Robert E., Jr., Ed.D., Mississippi State University, Associate Professor

Associate
Bourgeois, Thomas, Ph.D., Mississippi State University, Dean of Students

Participant (T=Teach; C=Committee Member)

Crews, John E., D.P.A., Western Michigan University, Health Scientist, Centers for Disease Control and Prevention, C
Gainer, Donna Carol, Ph.D., University of Tennessee, Instructor, T, C
LeJeune, Bonnie J., M.Ed., University of Arkansas, Director, Deafblind Programs/Senior Research Associate, Rehabilitation Research and Training Center on Blindness and Low Vision, T
Oliveiri, 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, Lavinia B., Ph.D., Mississippi State University, Lecturer, T
Thomas, George M., Ed.D., University of Alabama, Lecturer, T
Wells, Debbie K., Ph.D., Mississippi State University, Lecturer, T, C
Wong Hernandez, Lucy, M.S., Hofstra University, Instructor, T

Curriculum, Instruction, and Special Education

Level 1
Brenner, Devon G., Ph.D., Michigan State University, Professor and Department Head
Burroughs, Charlotte D., Ph.D., Mississippi State University, Professor and Graduate Coordinator
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
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 Associate Dean, College of Education
McCarra, Janet F., Ph.D., Mississippi State University, Assistant Professor
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Robichaux, Rebecca R., Ph.D., Auburn University, Associate Professor

Level 2
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McKissick, Bethany, Ph.D., University of North Carolina at Charlotte, Assistant Professor
Miller, Nicole E., Ph.D., Mississippi State University, Assistant Professor
Moser, Kelly M., Ph.D., Mississippi State University, Assistant Professor
Shirley, Tory Swearingen, Ph.D., Mississippi State University, Assistant Professor
Triplett, Kimberly M., Ph.D., Mississippi State University, Assistant Professor
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Associate
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Participant (T=Teach; C=Committee Member)
Benton, Gary J., Ed.D., University of Alabama, Lecturer (Professor Emeritus), T, C
Cirlot-New, Janie, M.S., University of South Alabama, Director, T.K. Martin Center for Technology and Disability, T
Darling, Lynn D., Ph.D., University of Maryland, Director, Early Childhood Institute, T, C
Hamil, Burnette, Ph.D., University of Southern Mississippi, Professor (Retired), C
Minchew, Sue, Ph.D., Mississippi State University, Associate Dean Emerita and Professor Emerita, C
Morrison, Johnetta, Ed.D. Syracuse University, Associate Professor (Retired), C
Ott, Belinda Bennett, Ph.D., University of Southern Mississippi, Lecturer, T
Tabereaux, Charlotte B., Ph.D., Mississippi State University, T
Thompson, Nicole Torrence, Ph.D., The University of Georgia, Assistant Professor, University of Memphis, C
Waddell, Suzanne M., Ph.D., Mississippi State University, Instructor, C

Instructional Systems and Workforce Development

Level 1
Adams, James H., Ed.D., Oklahoma State University, Associate Professor and Graduate Coordinator
Cornelious, Linda F., Ph.D., Florida State University, Professor
Forde, Connie M., 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
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
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wampler, Lynn B.</td>
<td>Mississippi State University, Ed.D.</td>
<td>Ph.D., Assistant Professor</td>
</tr>
<tr>
<td>Abraham, Patti S.</td>
<td>Mississippi State University, Ed.D.</td>
<td>Lecturer, Assistant Professor</td>
</tr>
<tr>
<td>Berryhill, Amy H.</td>
<td>Mississippi State University, Lead IT Consultant</td>
<td>Lead Assistant Professor</td>
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<tr>
<td>Buck, Jessica L.</td>
<td>Mississippi State University, Associate Professor</td>
<td>Professor</td>
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<tr>
<td>Butler, Malinda B.</td>
<td>Mississippi State University, Lecturer</td>
<td>T, C</td>
</tr>
<tr>
<td>McFadyen, Gary M.</td>
<td>Texas A&amp;M University, Assistant Research Professor</td>
<td>Professor, CAVS (Retired)</td>
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<tr>
<td>Olivieri, Kathleen C.</td>
<td>Mississippi State University, Lead IT Consultant</td>
<td>Associate Professor, IITS, T, C</td>
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<tr>
<td>Parker, Robin</td>
<td>Mississippi State University, Lecturer</td>
<td>T, C</td>
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<tr>
<td>Wampler, Lynn B.</td>
<td>Mississippi State University, Lecturer</td>
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<tr>
<td>Abadie, Ben</td>
<td>University of Southern Mississippi, Ed.D.</td>
<td>Assistant Professor</td>
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<td>Brown, Stanley P.</td>
<td>University of Southern Mississippi, Professor</td>
<td>T</td>
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<td>Kavazis, Andreas N.</td>
<td>University of Florida, Assistant Professor</td>
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<td>Love, Adam W.</td>
<td>University of Tennessee, Assistant Professor</td>
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<td>Vickers, John Bradley</td>
<td>University of Georgia, Assistant Professor</td>
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<td>Wax, Benjamin, Jr.</td>
<td>University of Mississippi, Assistant Professor</td>
<td>T</td>
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<td>Webb, Heather E.</td>
<td>University of Mississippi, Assistant Professor</td>
<td>T</td>
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<td>Agiovasitis, Stamatis</td>
<td>Oregon State University, Assistant Professor</td>
<td>T</td>
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<tr>
<td>Gilliland, Katherine J.</td>
<td>Indiana University, Associate Professor</td>
<td>T</td>
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<tr>
<td>Hale, Brendon S.</td>
<td>Indiana University-Bloomington, Assistant Professor</td>
<td>T</td>
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<tr>
<td>Holmes, Megan E.</td>
<td>Michigan State University, Assistant Professor</td>
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<tr>
<td>Knight, Adam C.</td>
<td>Auburn University, Assistant Professor</td>
<td>T</td>
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<tr>
<td>Lambeth, John</td>
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<td>T</td>
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<tr>
<td>Morse, Alan K.</td>
<td>University of Northern Colorado, Assistant Professor</td>
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<tr>
<td>Brocato, D. Kay</td>
<td>Mississippi State University, Associate Professor</td>
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<tr>
<td>Coats, Linda T.</td>
<td>Mississippi State University, Professor</td>
<td>T</td>
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<tr>
<td>Davis, James E.</td>
<td>Mississippi State University, Associate Professor</td>
<td>T</td>
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<tr>
<td>Hare, R. Dwight</td>
<td>University of North Carolina-Chapel Hill, Professor and Graduate Coordinator</td>
<td>T</td>
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<tr>
<td>King, Stephanie B.</td>
<td>Mississippi State University, Assistant Professor</td>
<td>T</td>
</tr>
<tr>
<td>Prince, Debra L.</td>
<td>Mississippi State University, Associate Professor</td>
<td>T</td>
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<tr>
<td>Stumpf, Arthur D.</td>
<td>University of Missouri-Columbia, Associate Professor</td>
<td>T</td>
</tr>
<tr>
<td>Williams, Frankie K.</td>
<td>University of South Carolina, Associate Professor and Department Head</td>
<td>T</td>
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<tr>
<td>Xu, Jianzhong</td>
<td>Columbia University, Professor</td>
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<tr>
<td>Taggart, Amanda</td>
<td>University of Texas at San Antonio, Assistant Professor</td>
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<td>Wallin, Patsy K. (Penny)</td>
<td>University of Southern Mississippi, Assistant Professor</td>
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<tr>
<td>Willis, Chris</td>
<td>Indiana University, Assistant Professor</td>
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<tr>
<td>Abadie, Ben</td>
<td>University of Southern Mississippi, Ed.D.</td>
<td>Assistant Professor</td>
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<td>Agiovasitis, Stamatis</td>
<td>Oregon State University, Assistant Professor</td>
<td>T</td>
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<tr>
<td>Gilliland, Katherine J.</td>
<td>Indiana University, Associate Professor</td>
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<td>Hale, Brendon S.</td>
<td>Indiana University-Bloomington, Assistant Professor</td>
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<tr>
<td>Holmes, Megan E.</td>
<td>Michigan State University, Assistant Professor</td>
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<td>Knight, Adam C.</td>
<td>Auburn University, Assistant Professor</td>
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<tr>
<td>Lambeth, John</td>
<td>University of Southern Mississippi, Associate Professor and Graduate Coordinator</td>
<td>T</td>
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<tr>
<td>Morse, Alan K.</td>
<td>University of Northern Colorado, Assistant Professor</td>
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<tr>
<td>Blackbourn, Richard L.</td>
<td>Mississippi State University, Professor and Dean, College of Education</td>
<td>T</td>
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<tr>
<td>Blendinger, Jack G.</td>
<td>University of Northern Colorado, Professor</td>
<td>T</td>
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<tr>
<td>Boggan, Matthew K.</td>
<td>Nova Southeastern University, Associate Professor</td>
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**Kinesiology**

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<tr>
<th>Name</th>
<th>Institution</th>
<th>Title</th>
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<tbody>
<tr>
<td>Abadie, Ben</td>
<td>University of Southern Mississippi, Ed.D.</td>
<td>Assistant Professor</td>
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<td>Brown, Stanley P.</td>
<td>University of Southern Mississippi, Professor</td>
<td>T</td>
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<tr>
<td>Kavazis, Andreas N.</td>
<td>University of Florida, Assistant Professor</td>
<td>T</td>
</tr>
<tr>
<td>Love, Adam W.</td>
<td>University of Tennessee, Assistant Professor</td>
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<tr>
<td>Vickers, John Bradley</td>
<td>University of Georgia, Assistant Professor</td>
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<tr>
<td>Wax, Benjamin, Jr.</td>
<td>University of Mississippi, Assistant Professor</td>
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<tr>
<td>Webb, Heather E.</td>
<td>University of Mississippi, Assistant Professor</td>
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**Leadership and Foundations**

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<tr>
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</tr>
</tbody>
</table>

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BAGLEY COLLEGE OF ENGINEERING
Aerospace Engineering

Level 1

Cheng, Yang, Ph.D., Harbin Institute of Technology (China), Assistant Professor
Cinnella, Pasquale, Ph.D., Virginia Polytechnic Institute and State University, Professor, and Endowed Chair and Department Head
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Sescu, Adrian, Ph.D., University of Toledo, Assistant Professor
Sullivan, Rani W., Ph.D., Mississippi State University, Associate 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, Associate Professor

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Novotny, Mark A., Ph.D., Stanford University, Professor and Department Head, Physics and Astronomy, Director, ERC Center for Computational Sciences
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Rais-Rohani, Masoud, Ph.D., Virginia Polytechnic Institute and State University, Professor
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Participant (T=Teach; C=Committee Member)
Blades, Eric L., Ph.D., Mississippi State University, Director of Southeast Regional Operations, ATA Engineering, Inc., C
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Farthing, Matthew W., Ph.D., University of North Carolina, Research Hydraulic Engineer, US Army Corps of Engineers ERDC, C
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Fowler, James E., Ph.D., Ohio State University, Professor, Endowed Professorship, and Graduate Coordinator
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Mechanical Engineering

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Forest Products

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**Chart below is in alpha order by abbreviation of major.**

| COE—Concentrations: |     |     |     |     |           |
| CC      | MS   | yes | 3.00 | 550-6.5 |
| MH      | MS   | yes | 3.00 | 550-6.5 |
| RC      | MS   | yes | 3.00 | 550-6.5 |
| SA      | MS   | yes | 3.00 | 550-6.5 |
| SLC     | MS   | yes | 3.00 | 550-6.5 |
| COG     | PhD  | yes | 3.00 | 550-6.5 |
| CS      | MS/PhD | yes | 2.75 | 550-6.5 |
| EASC    | PhD  | yes | 3.00 | 550-6.5 |
| EC      | MA   | yes | 2.75 | 575-7.0 |
| See GAEC for PhD |     |     |     |     |           |
| ECPS    | MS/PhD | y/y | 3.00 | 550-6.5 |
| EDAD    | PhD  | yes | 3.40 | 600-7.5 |
| EDLS    | MS   | yes | 2.75 | 550-6.5 |

**EDUC—Concentrations: |     |     |     |     |           |
| COE      | Eds  | yes | 3.3/3.4 | 550-6.5 |
| EDLS     | Eds  | yes | 3.20 | 550-6.5 |
| ELED     | Eds  | yes | 3.2 | 550-6.5 |
| ET       | Eds  | yes | 3.2 | 550-6.5 |
| EXED     | Eds  | yes | 2.75 | 550-6.5 |
| SEED     | Eds  | yes | 3.2 | 550-6.5 |
| SPSE     | Eds  | yes | 3.30 | 550-6.5 |

**ELED—Concentrations: |     |     |     |     |           |
| ECED     | MS   | yes | 2.75 | 550-6.5 |
| GEED     | MS   | yes | 2.75 | 550-6.5 |
| MLED     | MS   | yes | 2.75 | 550-6.5 |
| EN      | MA   | 3.00 | 625-8.0 |
| ENGR     | M ENG | yes | 3.00 | 550-6.5 |

**ENGR—Concentrations: |     |     |     |     |           |
| APHY     | PhD  | 2.75 | 550-6.5 |
| ASE      | PhD  | yes | 3.00 | 550-6.5 |
| BE       | PhD  | yes | 2.75 | 550-6.5 |
| CE       | PhD  | yes | 3.00 | 550-6.5 |
| CHE      | PhD  | yes | 3.20 | 550-6.5 |
| ME       | PhD  | yes | 2.75 | 550-6.5 |
| ENVT     | PhD  | 3.00 | 550-6.5 |
| EPY      | MS/PhD | y/y | 2.75/3.4 | 550-6.5 |

**EPI—Concentrations: |     |     |     |     |           |
| GEP      | PhD  | yes | 3.40 | 550-6.5 |
| SLP      | PhD  | yes | 3.40 | 550-6.5 |
| EXED     | MS   | yes | 2.75 | 600-7.5 |
| FL       | MA   | 2.75 | 525-6.0 |
| FO       | MS   | 3.00 | 550-6.5 |

**FOR—Concentrations: |     |     |     |     |           |
| FO       | PhD  | 3.10 | 550-6.5 |
| FOWL     | PhD  | yes | 3.20 | 550-6.5 |
| FP       | PhD  | 3.00 | 550-6.5 |
| FP       | MS   | 3.00 | 550-6.5 |
| GAEC     | PhD  | yes | 3.00 | 575-7.0 |
| GBIO     | MS   | yes | 2.75 | 500-5.5 |

**GG—Concentrations: |     |     |     |     |           |
<p>| BMP      | MS   | yes | 2.75 | 550-6.5 |
| ENGS     | MS   | yes | 2.75 | 550-6.5 |
| GEOL     | MS   | yes | 2.75 | 550-6.5 |
| GESP     | MS   | yes | 2.75 | 550-6.5 |
| GPHY     | MS   | yes | 2.75 | 550-6.5 |</p>
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Abbreviations:
- GPA: Grade Point Average
- GMAT: Graduate Management Admission Test
- GRE: Graduate Record Examination
- IELTS: International English Language Testing
- TOEFL: Test of English as a Foreign Language