2012-2013
Bulletin of the Graduate School
www.grad.msstate.edu
MISSISSIPPI STATE UNIVERSITY

ANNOUNCEMENTS 2012-2013

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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WILLIAM L. KIBLER, Ph.D.................................................. Vice President for Student Affairs
JOHN P. RUSH ....................................................................... Vice President for Development and Alumni
DAVID R. SHAW, Ph.D....................................................... Vice President for Research and Economic Development
AMY B. TUCK ........................................................................ Vice President, Campus Operations
DON A. ZANT .......................................................................... Vice President for Budget and Planning
JOAN L. LUCAS ...................................................................... General Counsel
TOMMY J. STEVENSON, Ph.D........................................... Director of Diversity and Equity Programs
SCOTT A. STRICKLIN ............................................................ Director of Athletics

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STEVEN F. BROWN, Ph.D..................................................... Dean of the MSU Meridian Campus
FRANCES N. COLEMAN, M.L.S........................................ Dean of Libraries
LOUIS R. D’ABRAMO, Ph.D.................................................. Dean of the Graduate School
R. GREG DUNAWAY, Ph.D................................................... Interim Dean of the College of Arts and Sciences
KENT H. HOBLET, D.V.M.................................................... Dean of the College of Veterinary Medicine
GEORGE M. HOPPER, Ph.D................................................ Dean of the College of Agriculture and Life Sciences
SHARON L. OSWALD, Ph.D................................................ Dean of the College of Business
SARAH A. RAJALA, Ph.D.................................................... Dean of the College of Engineering
CHRISTOPHER A. SNYDER, Ph.D......................................... Dean of the Shackouls Honors College
JAMES L. WEST, M.Arch................................................... Dean of the College of Architecture, Art, and Design

BOARD OF TRUSTEES

OF STATE INSTITUTIONS OF HIGHER LEARNING

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HANK M. BOUNDS ............................................................ Commissioner of Higher Education

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BRADFORD JOHNSON DYE, III
SHANE HOOPER
BOB OWENS
HAL PARKER
AUBREY PATTERSON
ALAN W. PERRY
CHRISTINE L. PICKERING
ROBIN ROBINSON
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

www.grad.msstate.edu/faculty/gradcouncil/

The Graduate Council is the executive committee of the Graduate Faculty and is responsible for the formulation of academic policy and programs related to graduate study at Mississippi State University. In addition, the Council may advise the Dean of the Graduate School on any matter they, or the Dean, feel is appropriate. The Chairperson of the Graduate Council is elected by and from the members of the Council.

The Council consists of one elected member from each of the eight academic colleges offering graduate study (programs), and one fewer in number (seven) appointed by the Provost and Vice President for Academic Affairs. Not more than two appointed faculty members may be from the same college or school. To be eligible for membership on the Council, members must have Level 1 status on the Graduate Faculty. The term of office is three years. A vacancy on the Council is filled in the same manner in which the member vacating the position was selected. In addition to the faculty, the Council has one graduate student representative who is usually the president of the Graduate Student Association. She/he is a voting member, and the term of office is one year.

Ex officio members include the Dean of the Graduate School; Associate Dean of the Graduate School; Provost and Vice President for Academic Affairs; Associate Provost; Associate Vice President for Administrative Services; Vice President for Research and Economic Development; Dean of University Libraries; Director of 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

David Morse, Ph.D., 2013, Elected, Vice Chair
Professor, Counseling & Educational Psychology
College of Education

Ex Officio Members

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

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

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

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

Benjy Mikel, Ph.D.
Associate Vice President & Executive Director, International Institute

To Be Determined
Office of the Registrar

Elected Members

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

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

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

Tim Barnett, Ph.D., 2013
Professor of Management
College of Business

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

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

Steve Taylor, Ph.D.
Director, Center for Distance Education
Russell L. Carr, 2013
Associate Professor of Basic Science
College of Veterinary Medicine

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

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

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

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

Wes Schilling, Ph.D., 2013
Associate Professor of Good Science, Nutrition and Health Promotion
College of Agriculture and Life Sciences

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

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

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

Thomas Sellers, 2013
President, Graduate Student Association
**GRADUATE ACADEMIC CALENDAR**  
**2012-2013**

**Fall Semester 2012**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 1*</td>
<td>Last day for international applicants to complete Spring admission process</td>
</tr>
<tr>
<td>August 3</td>
<td>Last day for initial submission of thesis/dissertation to Library for December graduation</td>
</tr>
<tr>
<td>August 6-10</td>
<td>International Teaching Assistant Workshop</td>
</tr>
<tr>
<td>August 10</td>
<td>Last day for final submission of thesis/dissertation to Library for December graduation</td>
</tr>
<tr>
<td>August 13-14</td>
<td>General Teaching Assistant Workshop</td>
</tr>
<tr>
<td>August 16-17</td>
<td>Final registration and payment of fees</td>
</tr>
<tr>
<td>August 17 (9:30 AM)</td>
<td>“Find Your Feet” New International Graduate Student Orientation</td>
</tr>
<tr>
<td>August 17 (1:00 PM)</td>
<td>New Graduate Student Orientation</td>
</tr>
<tr>
<td>August 20</td>
<td>Classes begin</td>
</tr>
<tr>
<td>August 24</td>
<td>Last day to drop a class without a grade</td>
</tr>
<tr>
<td>August 27</td>
<td>Last day to register or to add a course</td>
</tr>
<tr>
<td>September 1*</td>
<td>Last day for international applicants to complete Spring admission process</td>
</tr>
<tr>
<td>September 3</td>
<td>Holiday</td>
</tr>
<tr>
<td>October 1</td>
<td>Last day to drop a course with a W grade</td>
</tr>
<tr>
<td>October 4-5</td>
<td>Fall Break</td>
</tr>
<tr>
<td>October 10</td>
<td>Mid-point of semester</td>
</tr>
<tr>
<td>October 12</td>
<td>Deadline to apply for December graduation via MyState; $50 fee</td>
</tr>
<tr>
<td>October 13-October 31</td>
<td>Late December graduation application via MyState; $50 fee plus $50 late fee</td>
</tr>
<tr>
<td>October 23-November 2</td>
<td>Faculty advising for preregistration</td>
</tr>
<tr>
<td>October 26</td>
<td>Last day/thesis/dissertation defense or non-thesis comprehensive exam/Dec graduation</td>
</tr>
<tr>
<td>November 1*</td>
<td>Last day for domestic applicants to complete Spring admission process</td>
</tr>
<tr>
<td>November 1</td>
<td>Last day for doctoral preliminary/comprehensive examination for May graduation</td>
</tr>
<tr>
<td>November 1-18</td>
<td>Very late application for December graduation via MyState; $50 fee plus $200 late fee</td>
</tr>
<tr>
<td>November 2</td>
<td>Last day to submit signed examination results to the Graduate School for December graduation</td>
</tr>
<tr>
<td>November 5-15</td>
<td>Last day for initial submission of thesis/dissertation to the Library for December graduation</td>
</tr>
<tr>
<td>November 15</td>
<td>Primary Spring pre-registration</td>
</tr>
<tr>
<td>November 18</td>
<td>Last day to withdraw from the University</td>
</tr>
<tr>
<td>November 21, 22, 23</td>
<td>Thanksgiving Holiday</td>
</tr>
<tr>
<td>November 26</td>
<td>Classes resume</td>
</tr>
<tr>
<td>November 28</td>
<td>Last day to submit Library-approved thesis/dissertation to Library for December graduation</td>
</tr>
<tr>
<td>November 30</td>
<td>Last day for initial submission of thesis/dissertation to Library for May graduation and no Spring semester enrollment required</td>
</tr>
<tr>
<td>December 4</td>
<td>Classes end</td>
</tr>
<tr>
<td>December 5, 6</td>
<td>Reading Days (No mandatory class assignments, requirements, meetings)</td>
</tr>
<tr>
<td>December 7</td>
<td>Last day for final submission of thesis/dissertation to Library for May graduation and no Spring semester enrollment required</td>
</tr>
<tr>
<td>December 7, 10, 11, 12, 13</td>
<td>Final examinations</td>
</tr>
<tr>
<td>December 15 (10:00 A.M.)</td>
<td>Commencement ceremony for all colleges</td>
</tr>
<tr>
<td>December 24-January 3</td>
<td>Holiday</td>
</tr>
</tbody>
</table>
Spring Semester 2013

January 4.................................................................................................................General Teaching Assistant Workshop
January 4..................................................................................................................... Final registration
January 7....................................................................................................................... Classes begin
January 7-February 28 ...........................................................................................................Apply online for May graduation; $50 fee
January 11.................................................................................................................... Last day to drop a class without a grade
January 14..................................................................................................................... Last day to register or add a class
January 21....................................................................................................................... Holiday

February 1........................................... Last day for doctoral preliminary/comprehensive examination/August graduation
February 18............................................................................................................. Last day to drop a course with a W grade
February 25................................................................................................................ Holiday

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 8........................................................................................................................ Spring Break begins at end of class day
March 18......................................................................................................................... Classes resume
March 18-29................................................................................................................ Faculty advising for preregistration
March 22........................................................................................................................ Last day/thesis/dissertation defense and non-thesis comprehensive exam/May graduation
March 29......................................................................................................................... Holiday

April 1*.............................. Last day/domestic applicants to complete admission process for Maymester, 1st, 10-week Summer
April 1................................................................................................................................. Last day to submit signed examination results to the Graduate School/May graduation
April 1................................................................................................................................. Last day for initial submission of thesis/dissertation to the Library/May graduation
April 1-12 ....................................................................................................................... Primary registration for Summer and Fall semesters
April 1-19 ........................................................................................................................ Very late application via MyState for May graduation; $50 fee plus $200 late fee
April 10........................................................................................................................... Last day to withdraw from the University
April 19............................................................................................................................ Final deadline to apply for May graduation
April 22............................................................................................................................ Last day for submission of Library-approved thesis/dissertation to the Library/May graduation
April 24........................................................................................................................... Classes end
April 25, 26.................................................................................................................. Reading, make-up days if needed
April 26............................................................................................................................. Last day for initial submission of thesis/dissertation to Library for May graduation and no Summer enrollment required

April 29-May 3................................................................................................................ Final examinations

May 1*........................................ Last day for domestic applicants to complete admission process for 2nd Summer term
May 1*........................................ Last day for international applicants to complete admission process for Fall
May 3............................................................................................................................... Last day for final submission of thesis/dissertation to Library for May graduation and no Summer enrollment required
May 4............................................................................................................................... Final examination make-up day, if needed
May 10, 7:00 P.M....................................................................................................... Commencement

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

Commencement
College of Arts & Sciences
College of Architecture, Art & Design
School of Architecture
College of Business
Adkerson School of Accountancy
Summer Semester 2013

Maymester (part of term 0)

May 10................................................................. Final registration
May 13 ................................................................. Classes begin
May 13 ................................................................. Last day to drop a class without a grade (1st class day)
May 13 ................................................................. Last day to drop a course without a grade
May 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 28, 29, 30, 31, June 3 ............................................................. Classes meet
May 14 ................................................................. Last day to register or add a class (2nd class day)
May 17 ................................................................. Last day to drop a course with a W grade (5th class day)
May 27 ................................................................. Holiday
May 29 ................................................................. Last day to withdraw from the University

June 3 ........................................................................................................ Classes end
June 4 ........................................................................................................ Reading Day
June 5 ........................................................................................................ Finals

August 17 ............................................................................................ Graduation (No Commencement Ceremony)
August graduates invited to attend December ceremony; no charge except regalia rental

1st 5-Week Term (part of term 2)

June 1 ................................................................. Last day for doctoral preliminary/comprehensive examination/December graduation
June 5 ................................................................. Final registration
June 6 ........................................................................................................ Classes begin
June 6 ................................................................. Last day to drop a class without a grade
June 7 ........................................................................................................ Last day to drop a course without a grade
June 21 ................................................................. Last day to apply via MyState for August graduation; $50 fee
June 22-July 19 ...................................................... Late application via MyState for August graduation; $50 fee plus $50 late fee
June 25 ................................................................. Last day to drop a class
June 26 ................................................................. Last day to withdraw from the University

July 3 ........................................................................................................ Classes end
July 4 ........................................................................................................ Holiday
July 5 ........................................................................................................ Reading Day
July 8 ........................................................................................................ Final examinations
July 20-August 7 ................................................ Very late application via MyState for August graduation; $50 fee plus $200 late fee

August 17 ............................................................................................ Graduation (No Commencement Ceremony)
August graduates invited to attend December ceremony; no charge except regalia rental

2nd 5-Week Term (part of term 3)

June 21 ................................................................. Last day to apply to apply via MyState for August graduation; $50 fee
June 22-July 19 ...................................................... Late application via MyState for August graduation; $50 fee plus $50 late fee
June 28 ................................................................. Last day/thesis/dissertation defense and non-thesis comprehensive exam/August graduation

July 1* ............................................................................................ Last day for domestic applicants to complete admission process for Fall
July 4 ........................................................................................................ Holiday
July 8 ................................................................................................. Last day to submit signed examination results to the Graduate School/August graduation
July 8 ................................................................................................. Last day for first submission of thesis/dissertation to the Library/August graduation
July 9 ........................................................................................................ Final registration
July 10 ................................................................................................. Classes begin
July 10 ................................................................................................. Last day to drop a course without a grade (1st class day)
July 11 ................................................................................................. Last day to register or add a class (2nd class day)
July 20-August 7 ................................................ Very late application via MyState for August graduation; $50 fee plus $200 late fee
July 29 ................................................................. Last day to drop a class
July 29 ................................................................. Last day to submit Library-approved thesis/dissertation to Library for August graduation
July 30 ................................................................. Last day to withdraw from the University
August 2. Last day for submission of thesis/dissertation to Library for December graduation and no Fall enrollment required

August 6. Classes end

August 7. Last day for submission of thesis/dissertation to Library for December graduation and no Fall enrollment required

August 8, 9. Last day for final submission of thesis/dissertation to Library for December graduation and no Fall enrollment required

August 9. Graduation (No Commencement Ceremony)

August 17. August graduates invited to attend December ceremony; no charge except regalia rental

*Applications received after this date are not guaranteed consideration for admission.

Please refer to departmental/program listings in this publication for program specific admission deadlines.
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 the campus(es) at which the program is available.

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

**Master of Arts**
Applied Anthropology (T) [1]
Economics (T; NT) [1]
English (T; NT) [1]
Foreign Language (T; NT) [1]
History (T; NT) [1]
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]
Accounting (NT) [1]
    - Concentration: Systems

**Master of Public Policy and Administration**
Public Policy and Administration (NT) [1]
Master of Science
Aerospace Engineering (T; NT) [1, 5]
Agricultural and Extension Education (T; NT) [1]
Agricultural Life Sciences
  Concentrations:
  Animal Physiology (T; NT) [1]
  Biochemistry (T; NT) [1]
  Entomology (T) [1]
  Genetics (T; NT) [1]
  Plant Pathology (T) [1]
Agriculture
  Concentrations:
  Agricultural Economics (T; NT) [1]
  Agronomy (T; NT) [1]
  Animal Nutrition (T) [1]
  Animal Science (T; NT) [1]
  Engineering Technology (T; NT) [1]
  Horticulture (T) [1]
  Poultry Science (T; NT) [1]
  Weed Science (T) [1]
Biological Engineering (T) [1]
Biological Sciences (T) [1]
Biomedical Engineering (T) [1]
Chemical Engineering (T; NT) [1]
Chemistry (T) [1]
Civil Engineering (T; NT) [1, 5]
Computational Engineering (T; NT) [1]
Computer Science (T; NT) [1, 5]
Counselor Education (T; NT) [1, 2]
Educational Psychology (T; NT) [1]
Electrical and Computer Engineering (T; NT) [1, 5]
Elementary Education (NT) [1, 2]
Food Science, Nutrition, and Health Promotion
  Concentrations:
  Food Science and Technology (T) [1]
  Health Promotion (T; NT) [1, 5]
  Nutrition (T) [1]
Forest Products (T; NT) [1]
Forestry (T; NT) [1, 5]
General Biology (NT) [5]
Geoscience
  Concentrations:
  Applied Meteorology (NT) [5]
  Broadcast Meteorology (NT) [1]
  Environmental Geoscience (T) [1]
  Geology (T) [1]
  Geospatial Sciences (T) [1]
  Geography (T) [1]
  Professional Meteorology/Climatology (T) [1]
  Teachers in Geosciences (NT) [5]
Industrial Engineering (T; NT) [1, 5]
Kinesiology (T; NT)
  Concentrations:
  Exercise Physiology [1]
  Sport Pedagogy [1]
  Sport Administration [1]
Mathematics (T; NT) [1]
Mechanical Engineering (T; NT) [1]
Physics (T; NT) [1]
Psychology (T) [1]
School Administration (NT) [1, 2]
Secondary Education (NT) [1, 2]
Sociology (T; NT) [1]
Special Education (NT) [1]
Statistics (T; NT) [1]
Technology (NT) [1]
Veterinary Medical Science (T; NT) [1]
Wildlife and Fisheries Science (T) [1]
Workforce Education Leadership (NT) [5]

Master of Science in 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 [1]
Earth and Atmospheric Sciences [1]
Educational 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]
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
STARKILLE CAMPUS
The main campus of Mississippi State University adjoins the city of Starkville, 25 miles west of Columbus and 120 miles northeast of Jackson. Highways 82, 12, and 25 provide easy access to the University. Air service is available through the Golden Triangle Regional Airport located between Starkville and Columbus. The University has its own postal designation and zip code: Mississippi State, MS 39762. The Starkville zip code is 39759.

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

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

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

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

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

- Automotive Engineering. Coordinator: Dr. 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

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• Geospatial and Remote Sensing Technologies. Coordinator: Dr. David R. Shaw. E-mail: dshaw@geol.msstate.edu
• Gerontology. Coordinator: Dr. Sheri Lokken Worthy. E-mail: sworthy@humansci.msstate.edu
• Information Assurance Professional Certificate. Coordinator: Dr. David Dampier. E-mail: dampier@cse.msstate.edu
• Manufacturing. Coordinator: Mr. Larry G. Dalton. E-mail: dalton@ise.msstate.edu
• Materials Engineering. Coordinator: Dr. Judith Schneider. E-mail: schneider@me.msstate.edu
• Public Design. Coordinator: David Perkes. E-mail: dperkes@caad.msstate.edu
• Six Sigma. Coordinator: Mr. Larry Dalton. E-mail: dalton@ise.msstate.edu
• Software Engineering. Coordinator: Dr. David Dampier. E-mail: dampier@cse.msstate.edu
• Teaching of English to Speakers of Other Languages (TESOL). Coordinator: Dr. Ginger Pizer. E-mail: gbp31@msstate.edu

Graduate Program (Major)—The graduate program is the student’s major. Programs offered at Mississippi State University are approved by the Graduate Council and the Board of Trustees of State Institutions of Higher Learning. The program name appears with the degree on the student’s transcript.

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

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

Minor—A minor is a current block of coursework 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).

CENTER FOR DISTANCE EDUCATION

The mission of the Center for Distance Education is to engage people in achieving their lifelong learning goals through dynamic partnerships, targeted programming, innovative technology, and quality customer service. The activities of the Center for Distance Education are classified as the following: Academic Outreach (distance education), Continuing Education, and Independent Study (college and high school). The Center for Distance Education is a member of the University Continuing Education Association (UCEA), Learning Resources Network (LERN), Advisory Council on Distance Learning & Academic Outreach (ACDLAO), Association for Continuing Higher Education (ACHE), and NAFSA: Association of International Educators.

Academic Outreach

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

Office of Academic Outreach: Academic Programs Offered and Instructional Delivery Methods

✓ Professional Programs
  • Broadcast Meteorology (Online)
  • Diversity Certificate (Online)
  • GIS Certificate (Online)
  • Interagency Fire Management (Online)
  • Operational Meteorology (Online)
  • Rural Medical Scholars (Intensive Summer Seminar)
  • State Executive Institute (Intensive Summer Seminar)
  • Teacher Conservation Workshop (Summer Intensive Seminars)
  • Vision Specialist Program (Online)
Continuing Education
The Office of Continuing Education is dedicated to extending the educational resources and expertise of Mississippi State University through the facilitation, creation, and coordination of non-credit programs and activities. Efforts are focused in providing professional development and training, personal enrichment, youth programs, summer camps, and even management services.

Continuing Education Programs and Services:
✓ Safety and Environmental Training Programs
  * Asbestos Certification
  * Lead Certification
  * HAZWOPER Training
  * Occupational Safety & Health Administration (OSHA) Training
✓ Professional/Personal Development
  * Continuing Education Units (CEU)
  * Professional Development Certifications
  * Summer Camps and Youth Programs
  * Personal Enrichment Classes
✓ Services

*Conference and Event Planning/Management
*Customized Safety and Environmental training programs delivered at client locations

Contact Information: www.ce.msstate.edu

MSU-MERIDIAN
Mississippi State University-Meridian is a regional, upper-division, degree-granting campus of Mississippi State University. Located in east-central Mississippi, the campus is non-residential and provides site-based credit and non-credit coursework, as well as classes through distance learning, using resident faculty, MSU Starkville faculty, and part-time adjunct instructors. Junior, senior, and graduate-level courses offered at Mississippi State-Meridian enable students to fulfill all or some requirements for bachelor’s, master’s, specialist’s and doctoral degrees. Students may also elect to enroll in specific classes for professional or personal growth.

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

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

Location—Mississippi State University-Meridian is 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.

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

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

**MSU LIBRARY SYSTEM**  
[http://library.msstate.edu](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 hosts both 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 depositor 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.

**ACADEMIC AND RESEARCH COMPUTING AT MSU**

In support of academic and research computing at MSU, Information Technology Services (ITS) provides an expansive wired and wireless campus network that spans 202 academic and administrative buildings and residence halls. The network links hundreds of large-scale computer systems and servers with thousands of desktop, laptop, and handheld devices. Access to remote branches of the University, as well as the Internet, Internet 2, and National Lambda Rail is provided through high-speed, wide-area connections from the campus network. In addition to the network, ITS provides an array of computing and information resources for students, faculty, and staff. These resources include myState, the University’s Web portal, and myCourses, MSU’s course management system for online and distance learning. Open access computer labs in Griffin Hall, the
CONSORTIA

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

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

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

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

**DIVISION OF AGRICULTURE, FORESTRY, AND VETERINARY MEDICINE**

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

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

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

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

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

The College of Forest Resources is the only college of its kind in the state 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 Regulatory Compliance & Safety (ORC&S)
- Sponsored Programs Administration (SPA)
- Office of Research Security (ORS)

CENTERS AND INSTITUTES

- Center for Battlefield Innovation
- Center for Educational and Training Technology (CETT)
- Center for Safety and Health (CSH)
- Center for Science, Math, and Technology (CSMT)
- Energy Institute (EI)
- Geosystems Research Institute (GRI)
- 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 for Vocational-Technical Education (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, President, Mississippi State University, named the Chair in Dr. Radvanyi’s honor, the Radvanyi Chair in International Studies. The Chair devotes full attention to vital global problems with special emphasis on the complex security issues of the post-communist era. It alerts to America’s vulnerability by not having a reliable defense against hostile missile attacks. The Chair studies U.S. counterterrorism policy and monitors German-European and American relations and the insight of the workings of the European Union and Asian Security issues. The Chair through its Executive Lecture Forum (ELF) provides a unique outreach program, hosting internationally respected speakers from around the globe to address the membership. Its publications reach government agencies, think-tanks, and major libraries. This exclusive lecture forum counts as its members Mississippi business executives, academicians, and state government representatives and meets on a regular basis several times a year. Through the Chair, both students and faculty are provided a wide range of opportunities to gain awareness of international, political, economic, and cultural issues.

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

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

Sponsored Programs Administration (SPA)—Sponsored Programs Administration is the component of the Office of Research and Economic Development responsible for the administration of external proposal activities and pre-award and post-award contractual negotiations of fiscal and administrative matters. Services provided by Sponsored Programs include: disseminate funding information; assist faculty in contacting funding agencies; assure compliance with proposal guidelines; provide proposal budget cost analysis; facilitate in obtaining appropriate departmental and collegiate approvals; coordinate institutional compliance with government regulation; act as administrative liaison with the administrative officers of external sponsors; and assist faculty and staff in administrative 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 Battlefield Innovation—Mississippi State University's Center for Battlefield Innovation, also known as Battle Forge, is dedicated to developing cutting-edge technology solutions for the nation’s armed forces. Headquartered in Vicksburg, the research center is a collaboration between the land-grant institution and the defense contract Mav6. (For additional information about Mav6 and to read more about its edgefighter concept, visit http://mav6.com.)

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

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

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

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

Energy Institute (EI)—The mission of the Energy Institute is to coordinate energy research activities at MSU that will enhance the national reputation of the faculty involved and will lead to the development of energy-based industries in MS. The EI is comprised of four centers: the Sustainable Energy Research Center; the Institute for Clean Energy Technology; the Combined Cooling, Heating, and Power Projects; and the Industrial Assessment Center. These four centers give EI areas of excellence in bio-fuel development, environmental effects of energy production, distributed electrical power generation with waste heat utilization, and energy 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, Center for DoD Programming Environment and Training, Computational Simulation and Design Center, and GeoResources Institute.

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, nongovernmental, 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) is a unique interdisciplinary policy and science center dedicated to excellence in research. The mission of the Center is to provide science-based strategies that have important applications for economic, education, workforce, business, and regional development. Using cutting-edge infrastructure and technology, nSPARC makes creative and critical contributions to the nation through advanced data management and analysis techniques and software development. The Center also utilizes survey research and the latest focus group technology to provide customized solutions to unique issues.

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

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

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

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

Social Science Research Center (SSRC)—The Social Science Research Center has 60 years experience as an organized University research center. It engages in the analysis and study of numerous important social and economic issues facing Mississippi, the southern region, and the nation. Some 46 research fellows, supported by approximately 80 graduate and undergraduate students, research associates, and support staff conduct approximately 65 sponsored and numerous unsponsored research projects. The Center has a strong tradition of multi-disciplinary research, development, and evaluation projects dealing with social and community development, the family and children, alcohol and drug studies, highway safety, race relations, natural resources, the environment, behavioral dimensions of health, and information-age societal monitoring. Housed in the Mississippi Research and Technology Park adjacent to the MSU campus, SSRC researchers benefit from the interdisciplinary research infrastructure of the Center, which has five program areas: the Family and Children Research Unit; the Mississippi Alcohol Safety Education Program; the Rural Health, Safety and Security Institute; the Mississippi Health Policy Research Center; and the General Research Program. It also supports the Wolfgang Frese Survey Research Laboratory, the Media Collaboration Laboratory, the Secure Data Laboratory, and Facilitation for Advanced Collaborative Solutions.

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

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

COLLEGES
Separately organized research units are listed below by college.

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

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

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

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

The CSTC has involved both undergraduate and graduate students from architecture, interior design, landscape architecture, and business in its work. The CSTC has worked with faculty from architecture, landscape architecture, public administration, social 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) Jackson Community Design Center (JCDC) is a computing/visualization/technology laboratory for interdisciplinary research. Research project types engaged in the DRIL encompass a wide array of issues in architecture and related fields. Problems are engaged in computer visualization, multimedia, digital design, Computer Aided Design, 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—The John C. Stennis Institute of Government performs a threefold mission: (1) to enhance the efficiency and effectiveness of Mississippi state and local government through basic and applied research, training, technical assistance, and service; (2) to provide technical assistance and research for both rural development in Mississippi and regional activities in the Southeast; and (3) to promote civic education and citizen involvement in the political process.

The Stennis Institute of Government is organized into six program areas: (1) State Agency Program provides applied research and technical assistance to state agencies to improve their efficiency and effectiveness; (2) Local Government Program provides assistance to local governments to improve their efficiency and effectiveness; (3) Civic Education Program provides increased citizen involvement in political activities and enhances citizens’ knowledge of Mississippi politics; (4) Multi-State Program provides a working relationship with states similar to Mississippi to stay abreast of regional circumstances and their effect on Mississippi; (5) Organizational Development and Management Program provides assistance to government entities at all levels in adopting performance-based principles of organizational design and management, stimulates change in state and local government to match best-performance measurement practices, and assists in adoption and diffusion of innovative management techniques; (6) Basis and Applied Research Program provides the ability to foster basic research endeavors and to generate a series of research publications on the part of the faculty and students in Political Science, Public Policy and Administration, and other related areas. Technical assistance is offered upon request to Mississippi municipalities, non-profit organizations, regulatory agencies, utilities, and commissions to enhance efforts in improving management, efficiency, service delivery, and technology. The staff works with personnel from the state legislature, local governments, state and federal agencies, Mississippi citizens, regional and national contacts, and other agencies. Funds for The Stennis Institute of Government come partially from interest on more than $1.7 million that has been raised by the Mississippi State University Development Foundation as a memorial to Senator John C. Stennis but primarily from grants and contracts from outside sources.

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

College of Business

Center of Family Enterprise Research (COFER)—The mission of the Center of Family Enterprise Research (COFER) is to conduct and promote original research on family business, provide educational and research opportunities for graduate students, primarily at the doctoral level, and disseminate the results of research to family businesses throughout the state and the U.S. in order to improve their management and performance. The Center’s mission and vision will be accomplished by leveraging its existing human resources, developing interest in family firm research
within the College, and by exploiting existing partnership with the University of Alberta’s (Canada) Centre for Entrepreneurship and Family Enterprise and WHU-Otto Beisheim School of Management and the ITNES Center of Family Enterprises (Germany). The establishment of a Center of Family Enterprise research is consistent with the mission of MSU and its FutureState 2015 objectives. The Center is committed to the advancement and dissemination of knowledge in a field where the University can gain national and international prominence contributing to the economic development of the state, region, and nation. The Center also contributes to MSU by providing research opportunities for faculty members, increasing the quality and quantity of doctoral students, and seeking funding from private donors, industry, and government agencies.

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

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

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

**Technology Resource Institute (TRI)**

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

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

T. K. Martin Center for Technology and Disability (TKM)—The T. K. Martin Center for Technology and Disability at Mississippi State University was created in 1994 as a unique entity which provides direct clinical assistive technology to individuals with disabilities in an environment that promotes application and research. The Center works in conjunction with the Mississippi Department of Rehabilitation Services and other agencies to provide the latest in evaluation, prescription, and training of a wide range of assistive technologies, ranging from design and fabrication of mechanical devices to computer-based technologies. The Center collaborates with other University centers, institutes, and departments on research issues involving new technologies and technology integration issues. The Center is housed in the T.K. Martin Center Building, adjacent to the Longest Student Health Center.

College of Engineering
Center for Advanced Vehicular Systems (CAVS)—The Center for Advanced Vehicular Systems (CAVS) at Mississippi State University is an interdisciplinary center comprised of engineering, research, development, and technology transfer teams focused on providing solutions through the synergistic use of simulation tools, theoretical analysis, and experimentation. The CAVS activities are clustered

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.

Mississippi State University has three main purposes:
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.

Consortium composed of 88 public school districts.

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around material science, manufacturing process modeling, computational mechanics, computational fluid dynamics, multi-scale modeling, vehicular systems engineering, design optimization, human factors and ergonomics, alternative powered systems, and intelligent electronic systems. Research activities include efforts on vehicle weight reduction, structural integrity, hybrid power train design, energetics, advances in improved design and predictability as well as advances in improved diagnostics, manufacturing, training systems, and computational design technologies. While CAVS projects generate timely solutions relevant to regional manufacturers, CAVS research seeks to expand knowledge that is essential for sustained economic development. Through direct involvement in various activities at CAVS, students gain valuable experienced that leverages on their classroom learning. CAVS also serves as the academic department for the College’s graduate program in Computational Engineering.

The research groups within CAVS are dynamic with the ability to maximize the utilization of advancing technologies. In recognition that today’s complex problems facing manufacturing competitiveness and product safety and reliability must be addressed by cross-disciplinary teams, CAVS researchers approach the problems from diverse viewpoints to arrive at appropriate solutions. Each group at CAVS shares a passion for helping industry realize and sustain a competitive advantage within the global economy. In support of its mission, CAVS also offers a direct interface to manufacturers and industries throughout the state and region via the CAVS Engineering Extension, located in Canton, Mississippi. The services offered by the CAVS Engineering Extension include discrete event simulation, Six Sigma, lean manufacturing, and metrology. With a staff of about 250 faculty, research staff, postdocs, and students, the engineering enterprise of the Center for Advanced Vehicular Systems is well situated to support the research needs of industry.

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

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

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

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

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

Computational Simulation and Design Center (SimCenter)—The mission of the HPC² Computational Simulation and Design Center (HPC² SimCenter) is to serve Mississippi State University, the nation, and industry through research and development of advanced computational modeling, simulation, and design of physical systems to solve real-world problems. The HPC² SimCenter formed in July 2000 as part of the Engineering Research Center (ERC) is now HPC² within the College of Engineering. The SimCenter was formerly the Computational Fluid Dynamics Laboratory at MSU’s National Science Foundation Engineering Research Center (NSF ERC). Its research advanced the NSF ERC mission by reducing the time and cost required for complex field simulations of increased fidelity and scope for practical engineering analysis and design problems using high-performance computing. This achievement was possible by using advances in unstructured grid generation, accurate solution algorithms, scalable parallel computing, large-scale solution visualization, design optimization algorithms, user interfaces, and fully integrated simulation and design systems. The SimCenter has conducted modeling and simulation 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 in the field of wide bandgap semiconductor technology. This exciting field is where the next generation of advanced semiconductor devices will be developed, and EMRL will ensure that the state plays an active role in this important field of research. The Emerging Materials Research Laboratory is housed in a class 10,000 clean room with class 1,000 workstations. The principal equipment of EMRL is a high-temperature, RF-induction-heated Chemical Vapor Deposition (CVD) system for growing state-of-the-art single-metal-deposition equipment, oxidation furnaces, and microelectronics device processing facilities. Characterization capabilities include electrical characterization and optical microscopy. To ensure that EMRL’s research benefits from the latest technological developments, active research collaborations with industry, government laboratories, and academia are maintained within the United States and in Europe.

Engineering Engagement and Outreach Service (EEOS)—The Engineering Engagement and Outreach Service is an affiliation of BCoE activities with a focus on serving Mississippi businesses, industry, government (state and local), and communities. The EEOS is founded around the Center of Advanced Vehicular Systems-Extension (CAVS-E) and the Industrial Outreach Service (IOS). Adding to these two flagship organizations are the contributions of the college’s Assessment Center in the Department of Mechanical Engineering and the Southeast Regional Forensics Training Center in Computer Science and Engineering. Additionally, the college’s distance education program, offering graduate degrees and certificates, has become affiliated with EEOS to serve the professional development needs of the state’s engineering workforce. The mission of EEOS is to provide a coordinated mechanism for faculty in the Bagley College of Engineering to work with business, industries, and government entities to help them solve technical problems, develop new products, and improve production efficiency. Details on the two anchor centers follow. Center for Advanced Vehicular Systems Extension (CAVS-E)—The mission of CAVS Extension is to support Mississippi’s emerging automotive industry, other equipment manufacturers, and small-to-medium size manufacturers with advanced technical expertise in
the areas of product and process improvement, professional development education and training, and technology transfer. Major goals include improvement of competitiveness and profitability of Mississippi’s manufacturers; support of economic development so that new companies will locate to Mississippi and existing companies will expand; and assistance in providing new and better jobs for the people of the state. CAVS Extension works with the research centers and departments of Mississippi State University in order to provide access to and applications of advanced engineering tools and concepts related to engineering analysis, product design, manufacturing, and assembly processes. Services include delivery of experience- and knowledge-based concepts in production system modeling, plant layout, manufacturing plan development, and other applications in the areas of business and industrial systems. Industrial Outreach Services (IOS)—The mission of Industrial Outreach Services (IOS) is to assist Mississippi businesses and industry become more effective, efficient, and competitive in the global economy. In fulfillment of this mission, IOS provides services and training in launching and building new businesses, improving competitiveness of established companies, and serving as a bridge to the management and manufacturing resources and expertise that Mississippi State University has to offer. The IOS staff utilizes experience in industrial engineering, lean manufacturing, food processing, business development, and strategic planning and focuses on delivery of coordinated resources with accessibility to businesses and industry across the state. IOS provides support services to clients in manufacturing, agricultural and food production, the wood and furniture industry, home appliances, steel product production, electrical supplies, and state government entities.

High Performance Computing Laboratory (HPC)—The High Performance Computing Laboratory concentrates on the design of high performance system software and reconfigurable computing platforms for scientific and commodity computing environments. Emphasizing a semi-analytical approach to the understanding of complex systems such as networks and application-specific processors using field programmable gate arrays (FPGAs), the HPC Lab has projects spanning the gamut from gigabit/s communication subsystems, solutions to large-scale computational biology problems, and design of hardware-based accelerators for intrusion detection and computer forensics applications. The well-equipped HPC Lab is housed in the Department of Computer Science and Engineering and is supported by NSF, DOD, DOE, and industry. The interdisciplinary research in the HPC Lab is performed in collaboration with 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.

**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.

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

**College of Forest Resources**

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

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

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

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

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

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

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

**THE GRADUATE SCHOOL**

**ADMISSION REQUIREMENTS**

**Nondiscrimination Policy**

Mississippi State University does not discriminate on the basis of race, color, religion, national origin, sex, age, disability, or veteran status. In conformity with Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, Section 402 of the Vietnam Era Veterans Adjustment Assistance Act of 1974, and The Americans with Disabilities Act of 1990, the Office of Diversity and Equity Programs, PO Drawer 6199, Mississippi State, MS 39762, telephone 662-325-2493, has been designated as the University official responsible for the coordination of efforts to carry out responsibilities and make investigations of complaints related to discrimination.

**Disclaimer**

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

**I. Admission Policy**

The Office of the Graduate School is responsible for the administration of the University graduate admission policy. The decision to admit an applicant to pursue graduate study at MSU is based upon evaluations of both qualitative and quantitative information. An applicant must provide a completed application form, a statement of purpose for graduate study, three letters of recommendation, records of previous academic achievements, and a non-refundable application fee of $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 applicant must submit a new application. After the lapse of both a fall and spring semester without enrollment, an applicant must submit a new application, statement of purpose, letters of recommendation, and application fee.

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

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>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>July 1</td>
<td>May 1</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>November 1</td>
<td>September 1</td>
</tr>
<tr>
<td>1st Summer Term</td>
<td>April 1</td>
<td>March 1</td>
</tr>
<tr>
<td>2nd Summer Term</td>
<td>May 1</td>
<td>March 1</td>
</tr>
</tbody>
</table>

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

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

A. DOMESTIC STUDENTS

Applications—Graduate applicants are encouraged to apply on-line and can access the application at http://www.grad.msstate.edu/. Effective January 2013, no application will be processed until the application fee has been paid. The statement of purpose and recommendations letters must be submitted electronically. As part of the online application, the applicant must submit the names and email addresses of each person 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, Docufide, +ADDS. Electronic transcripts sent by Escrip should be sent to Mississippi State University, Graduate School. Email links from universities using Docufide or +ADDS should be sent to gradapps@grad.msstate.edu.

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.

- **Applying For** ...................................... **Deadline**
  - Fall Semester ...................................... May 1
  - Spring Semester ................................... September 1
  - First Summer Term ................................. March 1
  - Second Summer Term ............................. March 1

Some departments may have different deadlines; please refer to the departmental listings in this publication for degree specific admission deadlines. Because of anticipated delays in obtaining visas, applicants are encouraged to submit admission materials by January 1 for consideration for the fall semester. Applicants should request official transcripts from all institutions where undergraduate or graduate coursework has been completed. The official transcript must be in a sealed envelope bearing the institution’s return address with the Registrar’s signature or stamp across the flap.

Completed applications received after the final deadline dates will not be guaranteed admission consideration for the desired academic terms. It is the applicant’s responsibility to ensure that all supporting materials are received. Graduate applicants are encouraged to apply online and can access the application at [http://www.grad.msstate.edu/](http://www.grad.msstate.edu/). **All required materials** not submitted electronically must be mailed to: Office of the Graduate School; Box G; Mississippi State, MS 39762

**International Application Checklist**

- Application (if not applying electronically)
- $60.00 non-refundable Application Fee
- Statement of Purpose
- Three (3) Letters of Recommendation
- GRE or GMAT scores (if applicable)
- Official Academic Records (in native language along with translated copies if appropriate)
- Document of Support Form must be completed, including all required signatures (not required if Distance Learning)
- Bank Letter or other Document of Financial Support (not required if Distance Learning)
- TOEFL or IELTS Score
English Language Test Score Requirements

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

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

An international student, except as noted above, must have either a TOEFL (Test of English as a Foreign Language) score or an IELTS (International English Language Testing Systems) (per Graduate Council, January 2008) score. A total of two TOEFL or IELTS scores will be accepted per student admission application, and both must be submitted prior to enrollment in a graduate program. Only one type of test score (TOEFL or IELTS) can be submitted per applicant; therefore, a student cannot submit one TOEFL score and one IELTS score. If two test scores are submitted, the higher score will be the valid score in determining whether a student is granted regular admission or must successfully complete ESL courses as a contingency for full admission (per Graduate Council, August 2010).

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 graded on a pass/fail basis. The student required to take ESL 5323 Academic Research and Writing will be permitted to enroll in appropriate graduate courses at the same time. (Change of EN 1103 to ESL 5323 effective January 2005 per Graduate Council.)

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 enroll in ESL 5120, and the TOEFL or IELTS score is no longer a factor.

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.

In summary, the English-language test scores and requirements are as follows.

<table>
<thead>
<tr>
<th>Score</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>550 PBT or 213 CBT or 79 iBT (TOEFL) or 6.5 (IELTS)</td>
<td>Regular Admission</td>
</tr>
<tr>
<td>547-523 PBT or 210-193 CBT or 78-69 iBT (TOEFL) or 6 (IELTS)</td>
<td>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>ESL 5120* Assistantship cannot be awarded.</td>
</tr>
<tr>
<td>Below 477 PBT or 153 CBT or 53 iBT (TOEFL) or 4.5 (IELTS)</td>
<td>Ineligible for admission**</td>
</tr>
</tbody>
</table>

*Admission with a TOEFL/IELTS Hold
An applicant who does not attain the TOEFL or IELTS score required for regular admission into an academic program but attains the minimum allowed score on the TOEFL or IELTS may be given contingent admission into the program. A hold is placed on the student’s record and is removed when the required ESL coursework is completed.

**Ineligible for Admission
A student who does not attain a TOEFL of 477 on the paper-based test (or equivalent) or an IELTS score of 4.5 will be admitted into the ESL Center where she or he will be a full-time student studying English. Upon successful completion of the intensive English language program and attainment of the minimum national TOEFL score required for admission (477 on paper-based TOEFL or equivalent or 4.5 on the IELTS), the student will complete the application process for admission.

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).
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 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 MSU Website at http://www.grad.msstate.edu/. An applicant can also e-mail a request for an application packet to gradapps@grad.msstate.edu. Send requests for an application packet to: Office of the Graduate School; Box G; Mississippi State, MS 39762

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

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

Application for graduate admission, including the application and other requirements listed, must be submitted in the following instances.

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

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

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

Campus Change: A student admitted to a degree program on one campus who wishes to change to another campus where the program is also offered must submit the Graduate Request to Change Campus form to the Graduate School. The form must be signed by the student, the current-campus graduate coordinator, and the graduate coordinator of the new campus. If the student is Unclassified, the Dean of the Graduate School will sign the form as the graduate coordinator on both campuses. The student must remain on the original campus at least one semester before changing. Changes must be made before the semester begins.
Recommendation Letters: New letters of recommendation are required when a graduate student is
• applying to a different major
• applying to a different degree level
• adding a new major (dual degree)
• updating after one year (student was admitted but did not attend, student cancelled, the application was incomplete, or the department made no decision)
• applying to the same program after being rejected due to academic deficiencies.

Previous letters of recommendation from the student’s file may be used when the student is
• deferring to a later semester within one year of being admitted
• updating within one year (student cancelled, the application was incomplete, or the department made no decision)
• applying to the same program within one year of being rejected due to lack of funding, available faculty, or openings in the program.

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

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

In addition to holding an undergraduate degree, an applicant who receives regular admission status must satisfy one of the following minimum undergraduate admissions requirements based on the level of work completed at the time of the application:
A. 2.75 GPA on the last two years (approximately 60-70 semester hours or 90-100 quarter hours) of undergraduate academic coursework
B. 2.75 GPA on 30 or more semester hours undergraduate credit after earning the first bachelor’s degree
C. 2.75 GPA on the last two years (approximately 60-70 semester hours or 90-100 quarter hours) of undergraduate academic coursework and a 3.00 GPA on fewer than 24 hours graduate coursework
D. 3.00 GPA on 24 or more graduate hours
E. An earned master’s degree or higher-level degree.

An applicant not satisfying the minimum grade point average may be admitted to a degree program as a provisional student if approved by the graduate coordinator of the academic unit offering the degree program. The minimum acceptable undergraduate grade point average for admission as a provisional student is 2.50. (See Provisional Admission in this publication.)

Meeting minimum requirements for admission does not guarantee admission into a program. Each applicant must compete with all other applicants for availability in the respective program. Requests for exceptions to these requirements for either “regular” or “provisional” admission must be made by the appropriate academic dean who will notify the Office of the Graduate School in writing.

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

2. Provisional Admission
A student who has not fully met the GPA or other requirements stipulated by the University and the appropriate program for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. Such student must have as the initial objective advancement to regular status.

A student admitted to provisional status is eligible for advancement to regular status after receiving a 3.00 GPA on the first 9 hours of regular graduate-level courses taken at Mississippi State University. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 is not attained, the provisional student may be dismissed from the graduate program. Academic departments may set higher standards for students admitted provisionally into their programs; a student admitted with provisional status should contact the graduate coordinator for the program’s specific requirements.

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

3. Contingent Admission
A student may be admitted with a contingency, usually the final transcript recording the bachelor’s degree. In this case, the applicant has met all admissions requirements and is in the final semester of bachelor’s degree work. The student is admitted
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. Students admitted as unclassified must complete the semester before being admitted to a degree program. 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 faculty from Mississippi State University are not required to submit a transcript in order to enroll in a graduate course as an unclassified graduate student.

Application and registration include the following steps.

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 college, the unclassified applicant must select Graduate School-Unclassified.

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.

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

Each applicant must submit a $60.00 non-refundable application fee along with the readmission application. If the student has attended another college or university since leaving MSU, an official transcript must be submitted. Readmission to a program requires departmental approval only if the student is not in good standing or if the student requires an extension of time to complete the program. However, academic departments may set higher standards for readmission to specific programs. A student seeking readmission to an academic program should contact the graduate coordinator for specific departmental requirements prior to completing a readmission application.

The following departments have more stringent readmission requirements.
• Department of Political Science and Public Administration
• College of Veterinary Medicine
• Department of Leadership and Foundations
These graduate programs require that a student who has not been enrolled for one regular semester (fall or spring) must submit a readmission application to be approved by the graduate coordinator. A student who has not been rolled at MSU for two semesters (fall and spring) must submit a new application and statement of purpose to be considered for readmission.

• Department of Counseling and Educational Psychology requires that a student who has not been enrolled at MSU for two semesters (fall and spring) must submit a new application and statement of purpose to be considered for readmission. A student who has not been enrolled for more than two semesters (fall or spring) must complete a new application packet including new recommendation letters.

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

9. Senior Citizens
Legal residents of the State of Mississippi age 60 or older 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 who are currently awarded athletic scholarships
2. Those who are currently awarded band scholarships
3. Those who are currently awarded choral scholarships
4. All graduate students holding assistantships. (Rules applicable to these awards may be found in the Graduate Assistantship section of this publication.)
5. Children of Mississippi State University alumni. (Application deadline is April 1.) (For this purpose, an alumnus or alumna is defined as one who has earned a minimum of 48 MSU undergraduate credit hours or 30 MSU graduate credit hours of coursework or received a degree
from Mississippi State University. Graduate students must maintain a B (3.00) grade point average to continue eligibility for this award.

6. Non-resident students who are certified participants in The Academic Common Market

**Academic Common Market**—Academic Common Market non-resident tuition remission (exceptions) 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. A qualified student must maintain full-time status, remain in academic good standing and comply with all the requirements of the degree program. If a student changes his/her major from the approved ACM certified major then she/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 [http://www.sreb.org/page/1304/academic_common_market.html](http://www.sreb.org/page/1304/academic_common_market.html).

**IV. REQUIRED MEASLES/RUBELLA IMMUNIZATION**

In May 1992 the State College Board authorized State-supported universities to require all students enrolling Fall 1993 and after to provide proof of immunity to measles and rubella. A student will not be allowed to register for classes until this requirement has been met. Prior enrollment at MSU does not automatically clear a student from immunization updates. This proof consists of one of the following:

a. documented history of two doses of measles vaccine and one of rubella, usually given as MMR (Measles, Mumps, Rubella). The first of these immunizations MUST have been given AFTER 12 months of age and AFTER 1968. Immunizations given prior to the age of 12 months or before 1968 are not valid.

b. serologic confirmation of immunity to measles AND rubella (must be confirmed by laboratory report)

c. documented history of physician-diagnosed measles and rubella.

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

Permanent waivers are given for students:

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

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

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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/](http://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/.

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

Doctoral Degrees Only
Admission to Candidacy
Special Circumstances—All Degrees
Request for Change of Committee Members
Change to Graduate Program of Study
Graduate Program of Study—Continuation Sheet
Graduate Program of Study—Attachment Sheet
Distance Student Certification of Off-Campus/Non-MSU Research Facility (online degree programs)
Transfer Approval
Request to Retake a Course
Request for Extension of Time
Although the major professor and committee are integral to this process, the student is primarily responsible for the department’s timely submission of all required forms.

ENROLLMENT REQUIREMENTS

Continuous Enrollment
A graduate student who has completed all coursework and lacks only the completion of the thesis or dissertation must be continuously registered for a minimum of one 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. a doctoral student who has completed all coursework, passed the preliminary/comprehensive examinations and been admitted into candidacy;

b. an educational specialist student who has completed all the coursework but has not taken or passed the final examinations;

c. an educational specialist student who has completed all the coursework, passed the examinations, and is working on a thesis;

d. a master’s degree student who has completed the coursework but has not taken or passed the final examinations; or

e. a master’s degree student who has completed all the coursework, passed the examinations, and is working on a thesis.

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

A student must enroll at MSU for at least one graduate credit hour for the semester in which she or he

* takes the comprehensive examination;

* proposes a thesis/dissertation;

* defends a thesis/dissertation;

* submits initial and final thesis/dissertation documents to the Library.

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

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

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

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

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. The required steps are outlined on the form and must be carefully followed before submission of the form to the OGS. The link to the form is http://www.grad.msstate.edu/forms/pdf_forms/unclassified_graduate_worksheet.pdf. Upon receipt of the approved form, the student will receive a Registration Access Code (RAC) that is needed for online registration.

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 incurred after classes begin; the date of the drop affects the amount the student is refunded.

Add/Drop Schedule
a. Add/Drop without penalty - A student can add a course during fall and spring semesters through the fifth class day and can add a course through the sixth class day without fee assessment or academic penalty.
b. Drop after the fifth class day through the 30th class day - A student who drops a course after the fifth day will receive a W on his/her transcript and be assessed a fee. The student’s advisor must specify the effective date on the Add/Drop form.
c. 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/academiccal.html. Access the add/drop policy at http://www.msstate.edu/dept/audit/1201.html.

Withdraw from the University
(Drop semester schedule)
To drop an entire semester schedule before the withdrawal deadline, the student uses 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. The withdrawal is effective only for the current semester; in most circumstances the student is permitted to register for the subsequent semester without penalty. The withdrawal process for the summer semester is used when the student is dropping the entire schedule for either Maymester, either of the 5-week terms, or the 10-week term.

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
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, including 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
During registration and the first ten class days in a semester, a student is permitted to enter class as an auditor. Thereafter, entrance as auditor must be authorized by the dean of the college and the Registrar, upon recommendation of the instructor concerned. A student cannot change from credit to audit or audit to credit status after the tenth day of class. An audited course counts as part of the regular course load as if taken for credit. However, a graduate assistant cannot include an audited course as part of his/her full-time course load requirement. An auditor is not required to take tests and/or examinations or to prepare other written assignments; otherwise, conformity to regular classroom decorum is the same as that required for all students. At the time the request for audit is approved, the professor will inform the auditor of attendance expectations.

A student who audits a course receives a grade designation of AU on his/her transcript. A student earns no other grade, quality points, or credit hours.
for the audited course. An audited course cannot be listed on a graduate program of study.

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

Membership Changes
When a student’s graduate committee membership must change, the change(s) are submitted to the Graduate School on the committee change form (http://www.grad.msstate.edu/forms/#degree), which requires signatures of the new and departing committee members and the student. If, subsequent to the administration of the final 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 for removal of the committee member. This request must contain suitable justification for such action. The Dean of the Graduate School will then decide if removal is necessary and accordingly inform the student, the committee member, the major professor, and the graduate coordinator.

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

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

Program of Study
Using the Bulletin of the Graduate School for the academic year of admission, the student must complete with his/her graduate committee a program of study consisting of all courses required for degree completion according to the University-approved requirements and the program requirements. Refer to the specific degree section for Graduate School requirements as well as the department/program requirements. The student and the committee also identify research skill requirements and/or other requirements for degree completion. No audited or undergraduate course can be included on a program of study. Courses taken in previous graduate work that fulfill current degree requirements but are not part of the 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. LSK courses may be taken for graduate credit but cannot be included on a program of study.

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

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 toward a minor may be transferred to MSU. Hours transferred toward fulfillment of a minor must be relevant in content to the graduate program when the degree is awarded and must fit within the time-limit requirements for the specific degree (per Graduate Council, September 2005 and March 2010).

A minor in a 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 can be repeated per degree, 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 are generated in these cases.

Distance Student Certification of Off-Campus/Non-MSU Research Facility
Students enrolled in graduate programs (master’s, educational specialist, or doctoral) that are offered via distance learning and require a thesis or dissertation must meet established research requirements as stated in the Mississippi State University Graduate School Bulletin. Distance education students engaged in research will be provided the same student support services 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 must provide official transcripts from the college which the applicant is attending or has attended and from which he/she will receive or has received a bachelor’s degree. Transcripts for all work attempted after the bachelor’s, including undergraduate and graduate, at the time she/he applies for admission must be provided (per Graduate Council, April 2006; see General Requirements for Admission).

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 the department 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 6 credit hours of C grades; failure of the preliminary/comprehensive examination; unsatisfactory evaluation of a thesis or dissertation; failure of the research defense; or any other failure of a required component of one’s graduate program. Any one of these or any combination of these commonly constitute the basis for the termination of a student’s graduate study in a degree program.

Incomplete Grades/Change of Grades
An instructor may submit a grade of I (Incomplete) when circumstances result in a student’s inability to complete the course requirements or to take final examinations. Graduate students who receive a grade of I must complete all remaining coursework no later than the last regular class day of the next semester (excluding summer) whether or not the student is enrolled. Failure to remove an I grade during the specified time will result in the automatic grade of F.

Once this has occurred, no additional grade change is allowed except under extreme circumstance(s) as approved by the Provost (per Graduate Council, October 2004). I grades cannot be assigned for thesis/dissertation credits.

Degree Completion and Grades
To graduate, the student must have completed all University and degree program requirements as listed in the Bulletin of the Graduate School under which he/she was admitted. A graduate student cannot graduate with 1) a GPA lower than 3.00 for all courses attempted for graduate credit after admission to a particular 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 grades earned for all courses since admission to the program, including those outside the program of study, or 4) an I grade on his/her transcript (per Graduate Council March 25, 2011).

*Note: C grade hours for a course that is retaken and in which the student earns a grade of B or higher will not be included in the 6 total hours. However, the original grade is included as part of the calculation of the GPA. (See Retake Policy in this publication.) 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 online by the final date set by the Registrar for the semester he/she intends to graduate and pay the required fee. The Graduate Academic Calendar in this publication provides deadlines and fees. These deadlines are also found online on the Office of the Graduate School website and on the MSU Academic Calendar. Cap and gown rental is arranged through the MSU Barnes & Noble Bookstore. A candidate for a degree should be present at commencement for the official conferring of the degree.

PROBATION, DISMISSAL, APPEALS, AND AMNESTY

Academic Probation
After review by the graduate coordinator and in conjunction with the college dean, a student who has received a grade of C or lower or U (see Academic Performance) may be placed on probationary status in the next regular (fall or spring) semester following the unsatisfactory academic performance semester. Specific information relative to retaking of courses or completing remedial work will be established by the appropriate academic advisor, student’s graduate committee, and graduate coordinator and documented in written form. If the student intends to pursue the academic appeals process, he or she must do so during this probationary semester (per Graduate Council, September 2005).
NOTE: A student cannot take a preliminary/comprehensive examination or defend/submit a thesis or dissertation during the probationary period. If at the end of the probationary semester, the student has not met the requirements outlined by the appropriate academic advisor, she or he may be dismissed.

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

Appeal of Academic Status
To appeal one’s academic status (e.g., dismissal from a program or failure to pass an examination) a student must submit the request and related explanation in writing to the graduate coordinator and/or head of the department offering the program. The department head/coordinate will review this appeal with the appropriate college or departmental committee and render a written recommendation. If the appeal at the program level is unsuccessful, a student may then appeal to the college dean. In making a decision, the dean will receive a written recommendation and consult with an appointed subcommittee, if necessary, of the Graduate Council. The dean will then render a written notification of a decision. If this appeal is unsuccessful, the student may then appeal to the Provost and will receive a written notification of a decision. This process does not apply to academic status affected by misconduct, for which a separate policy exists.

Grade Appeal Process
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.

Admission Based on Academic Amnesty
Academic amnesty for graduate students provides students previously enrolled at MSU the opportunity to have up to 9 hours of previously completed graduate courses eliminated from the computation of his or her grade point average upon successful readmission. Policy 20.18 is available at http://www.msstate.edu/dept/audit/PDF/1218.pdf

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

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

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

Other Complaints
Graduate students who are unsure of the course of action for their complaints should contact the Dean of Students at 112 Lee Hall, 662-325-3611 or http://www.students.msstate.edu. The Dean of Students can assist the graduate student in determining the course of action for the complaint and whether the grievance should be referred to the Dean of the Graduate School or some other office within the University. The graduate student and the Dean of Students may at that point refer to the following as a method of resolution of a grievance that is not otherwise provided a remedy by University
Policy or Academic Operating Policy and Procedure (AOP) within the University.

Grievance Procedures
Two principles must be followed during the grievance procedure.
• Preponderance of Evidence: If a graduate student believe 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, or the graduate student is not satisfied with the response from the department head or supervisor, the student will contact the Dean of the College. If the student is not satisfied at this point, he/she may ask for intervention by the Graduate School.

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

Responsibilities of the Investigating Committee: The person designated to chair the investigating committee will inform the graduate student:
1. The manner and frequency with which the graduate student will be updated about the status of the investigation.
2. The need for a high level of discretion during the investigatory process.
3. Insure that there is no retaliation against the graduate student.

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

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

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

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

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

1. The University provides counseling services which are a resource for all MSU students when they have experienced stressful or difficulty situations. Graduate students may wish to seek counseling services provided by Student Counseling Services at 115C Hathorn Hall on Magnruder 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 throughout the nine colleges. A number of specialized master’s degrees are also available. Refer to pages 15-16 of this publication for a complete list. Consult the Office of the Graduate School section and the specific master’s program description for complete and detailed information regarding both admissions and degree completion requirements.

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 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).

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 be changed, the student submits a change of membership form
A course with the LSK prefix may be taken for graduate credit but may not be used on a graduate program of study.

Program of Study Changes
If a program of study initially submitted to the Graduate School subsequently changes, the student must submit a change of program form (http://www.grad.msstate.edu/forms/#degree) approved by his/her committee to report the additions and/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 may be required to take an oral examination, a written examination, or both. (See the THESIS section for information concerning the thesis defense).

- Non-thesis degree candidates are required to take a written or oral comprehensive examination, or both, and must register for this examination with the graduate coordinator of the major program. This examination should demonstrate: 1) the candidate’s thorough familiarity with the literature in the field of major interest; 2) the relation of the special subject to allied subjects; and 3) the level of general knowledge and training, including use of oral and written English.

- A student must be enrolled at MSU during the semester the exam is administered. 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 fall between the first day of class and the last day of final exams during the fall and spring semesters.

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

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

- Following the examination, the major professor must promptly submit the completed examination results form to the Office of the Graduate School.

- A student who fails the comprehensive exam can apply to schedule another examination after a period of four months has elapsed from the date of the original exam. Two failures result in the student’s removal as a master’s degree candidate.

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

The defense date must fall between the first day of class and the last day of final semester exams and must occur by the deadline found in the Graduate Calendar in this publication. Announcement of the examination must be filed in the Office of the Graduate School at least two weeks prior to the scheduled date.

A public presentation of the thesis research and a defense before the student’s graduate committee are required. The defense before the graduate committee is open to any member of the graduate faculty and the Dean and Associate Dean of the Graduate School.

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

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 (the original and one copy) and submit the form to the Office of the Graduate School. Submission of the report to the Office of the Graduate School 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 for satisfactory or U for unsatisfactory is given 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. The dates are posted in the Graduate Academic Calendar in this publication and on the Office of the Graduate School and Library websites. The student must be enrolled 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 to the Library. Submission must be in Portable Document Format (PDF) and uploaded to the Library’s electronic theses and dissertations (ETD) database.

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

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

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

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

MSU believes that special attention must be directed toward the mentoring of the students and the development of a creative and supportive environment for research hours offered via distance. Each academic unit which administers a distance graduate degree program with a thesis will determine and define the appropriate use of communication and technology. A student’s thesis committee must approve the procedures the student must follow to ensure quality and integrity of the research process at 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, offered in the College of Education, is comprised of a planned program of at least 30 semester hours above the master’s degree under the direction of a major advisor. Students enrolled in the educational specialist degree programs should refer to the program section of this publication and to the *College of Education Graduate Handbook* for specific rules and regulations. Students should also refer to departmental websites.

**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**
The educational specialist degree is offered with a major in Education. Available concentrations include:
- Counselor Education
- Education-Technology
- Elementary Education
- Secondary Education
- School Administration
- School Psychology
- Special Education

The program of study form must be submitted to the Office of the Graduate School during the semester in which the student applies for graduation. The program of study will list no fewer than 30 credit hours. A maximum of 6 credit hours of graduate credit may be earned in DIS courses. No audited or undergraduate course can be included on the Ed.S. program of study. 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. A course with the LSK prefix may be taken for graduate credit but may not be used on a graduate program of study.

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

**Minor**
A student is required to complete the minimum number of hours required on the program (Summary Graduate Council 2001-02) and may be permitted to enroll in another area, a minor, to satisfy the remaining credit hours. 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 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 3-credit hour Directed Individual Study (DIS) or 6 credit hour thesis is required. No more than 6 semester hours of graduate credit may be earned in DIS courses.

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 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 must be submitted to the Office of the Graduate School by the semester in which the student applies for graduation.

Membership Changes
When the membership composition of a student’s graduate committee needs to be changed, 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 and the student. If, subsequent to the administration of the final or oral/written comprehensive examination, a student’s request to remove a member of the graduate committee is not met with the approval (signature) of that member, then the student must submit to the Dean of the Graduate School a written request for removal of the committee member. This request must contain suitable justification for such action. The Dean of the Graduate School will then decide if removal is necessary and accordingly inform the student, the committee member, the major professor, and the graduate coordinator.

Ed.S. Comprehensive Examination
A student completing a degree must apply for the comprehensive examination in the office of the major advisor. To qualify to take the examination, the student must fulfill the following requirements.

- 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 examination date must fall between the first day of class and the last day of final semester exams.
- The student must have a 3.00 GPA in all courses taken after being admitted to the program (i.e., program and non-program courses),
- The student must take the comprehensive examination (non-thesis option) or thesis defense (thesis option) during the terminal semester or within 6 hours of completion of the program of study, excluding practica and internships (per Graduate Council, May 2006).

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

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

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

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

A public presentation of the thesis research and a defense before the student’s graduate committee are required. The defense before the graduate committee is open to any member of the graduate faculty and the Dean and Associate Dean of the Graduate School.

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. The examination date must fall between the first day of class and the last day of final semester exams and must occur by the deadline found in the Graduate Calendar in this publication. Announcement of the examination must be filed in the Office of the Graduate School at least two weeks prior to the scheduled date.

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

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 (the original and one copy) and submit the form to the Office of the Graduate School.

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.

The manual entitled Standards for Preparing Theses and Dissertations (6th edition, revised 2012) describes the regulations governing thesis preparation and must be followed. The student should access the Standards and also review the Office of Thesis and Dissertation Format Review information found at the http://library.msstate.edu/thesis/index.asp.

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

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

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

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

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

**Other-Ed.S.**

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

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

MSU believes that special attention must be directed toward the mentoring of the students and the development of a creative and supportive environment for research hours offered via distance. Each academic unit which administers a distance graduate degree program with a thesis will determine and define the appropriate use of communication and technology. A student’s thesis committee must approve the procedures which the student must follow to ensure quality and integrity of the research process at 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).

**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:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit Calculation</th>
</tr>
</thead>
<tbody>
<tr>
<td>During a regular semester, a student taking 9 hours or more earns half of the required residency credit or 15 weeks.</td>
<td></td>
</tr>
<tr>
<td>During each term of the regular summer school, a student taking 4 or more hours earns 6 weeks residency.</td>
<td></td>
</tr>
<tr>
<td>A part-time student earns residency in weeks equivalent to the semester hours scheduled.</td>
<td></td>
</tr>
<tr>
<td>Night classes, Saturday classes, and 3-week short-term courses carry residence credit equivalent to the number of semester hours earned.</td>
<td></td>
</tr>
</tbody>
</table>

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**THE GRADUATE SCHOOL**

**DOCTOR OF PHILOSOPHY DEGREE COMPLETION REQUIREMENTS**

To earn the Doctor of Philosophy degree, a candidate must demonstrate mastery of a particular field of knowledge, of the techniques of research, and of the correlation of his/her specialty with the larger areas of knowledge, especially those directly related to his/her own field of interest.

**NOTE**—A student enrolled in a doctoral degree program in the College of Education is advised to refer to the program section of this publication and the College of Education Doctoral Student Guide for specific rules and regulations. Additionally, the student should review information provided through the departmental website.

**Ph.D. Admission**

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

**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 of the course requirements (non-research) for a Ph.D., generally three academic years as a full-time student are needed. At least three academic years beyond the bachelor’s degree are necessary to meet course requirements. The total number of course hours will vary based on the specific doctoral program requirements and the student’s needs.

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

No audited course or undergraduate course can be included on the Ph.D. program of study. Courses taken in previous graduate work that fulfill current degree requirements but are not part of the program of study must be listed on the attachment sheet (http://www.grad.msstate.edu/forms/pdf_forms/grad_prog_of_study_attach_doc.pdf). A course with the LSK prefix may be taken for graduate credit but may not be used on a graduate program of study.

Program of Study Changes
If a program of study submitted to the Graduate School subsequently changes, the student must submit a change of program form to 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 examination date must fall between the first day of class and the last day of final semester exams.

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 commonly takes the preliminary/comprehensive examination after completing the coursework. However, the examination can be administered within 6 hours of completing all required coursework, excluding any internship/practicum courses. The examinations can only be administered to students who 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 Office of the Graduate School.

The student must take the examination
• by June 1 for December graduation
• by November 1 for May graduation
• by February 1 for August graduation.

A student must be enrolled at MSU during the semester preliminary/comprehensive examination(s) 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 fall between the first day of class and the last day of final semester exams.

The student’s graduate committee serves as the examining committee. The student or a committee member may request that the Graduate School appoint an outside observer to attend the comprehensive/preliminary examination.

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

A student who fails this examination can apply to schedule a date for another examination after a period of four months has elapsed from the date of the original examination. Two failures on this examination will result in the student being dropped from further consideration as a doctoral candidate.

Following the examination, the student’s committee must complete the examination results report and submit the original and one copy to the Office of the Graduate School.
Ph.D. Admission to Candidacy
A doctoral student is admitted to candidacy when she/he has:
• satisfactorily completed all required coursework and the final program of study is approved and accepted in the Office of the Graduate School
• completed any required research skills or other requirement(s) prior to taking the preliminary/comprehensive examination
• passed the preliminary/comprehensive examination
• had a dissertation topic formally approved by the graduate committee.

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

Ph.D. Dissertation Preparation and Defense
The student’s graduate committee must approve the dissertation topic, the outline, and the final submission of the dissertation. The graduate 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 examination date must fall between the first day of class and the last day of final semester exams.

The dissertation is required of all candidates for the Ph.D. The student must register for at least the minimum number of required dissertation/research hours. The University requirement is 20 credit hours although some degree programs have been approved to require more. Credit for 20 hours (or the minimum number required) of dissertation/research is awarded the student upon the successful submission of the final dissertation, regardless of the actual number of hours the student 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. Dissertation research is subject to review and approval by the University’s Institutional Review Board (IRB).


A public presentation of the dissertation research and a defense before the student’s graduate committee are required. The defense before the graduate committee is open to any member of the graduate faculty and the Dean and Associate Dean of the Graduate School.

To qualify for graduation in a particular semester:
• The final defense must occur by the deadline found in the Graduate Academic Calendar in this publication.
• Announcement of the examination must be filed in the Office of the Graduate School at least two weeks prior to the scheduled date.
• 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 student or a committee may request that the Office of the Graduate School appoint an outside observer to attend the dissertation defense.
• 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.

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

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

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](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.

**DOCTOR OF EDUCATION**
The College is no longer accepting applications to any Doctor of Education program. A student who is completing the Ed.D. degree at MSU must consult the Bulletin of the Graduate School under which she/he was admitted to that program.

**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 spread their knowledge by association with research-oriented responsibilities, whether employed within the student’s academic discipline or in another department. Duties and stipends vary from program to program and are dependent upon the nature of assigned duties.

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

Graduate Teaching Assistantship (GTA)—Graduate Teaching Assistants work under the direct supervision of graduate faculty members and are assigned duties related directly to instruction, such as assisting in the preparation of lectures, leading discussion sections, conducting laboratory exercises, grading papers, and keeping class records. Advanced graduate students who have completed 18 graduate credit hours in his or her teaching discipline (seminar and research 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.

APPONITMENT PROCESS

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

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

Application for Graduate Assistantship
Application for an assistantship must be submitted to the college, department, school, or support unit. The department/unit may provide its own application form or use the Application for Graduate Assistantship 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 graduate students who are hired in non-teaching/non-research assistantships can receive non-taxed tuition remission of $5,250.00 per calendar year at MSU as Graduate Service Assistants. Amounts in excess of $5,250.00 per calendar year are taxable.

Distance Education Courses
A student who is enrolled in a total of 9 credit hours (6 graduate credit hours on campus and 3 Distance Education credits) is considered to have a full-time load. Tuition will be assessed at the current University rate. The full-time tuition exemption credit will be applied to a student’s account covering the tuition cost of the Distance Learning course. When a graduate student is enrolled in more than 9 credit hours, the graduate assistant tuition exemption does not cover the cost of Distance Education or ESL courses. The graduate assistant is responsible for any additional cost incurred as a result of Distance Education or ESL course enrollment.

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

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

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

RESPONSIBILITIES FOR MAINTAINING A GRADUATE ASSISTANTSHIP

Required Course Load
Fall and Spring Semesters—Graduate assistants must be full-time students (registered in at least 9 graduate credit hours) and may not enroll in more than 13 graduate credit hours. The required full-time status must be maintained throughout the entire semester. Therefore, no course may be dropped if the resulting course load is then 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 a termination of the assistantship. Unsatisfactory progress may be defined as the failure to maintain a B average in graduate courses attempted after being admitted to a specific program; a grade of U, D, or F in any course; more than two grades below a B; failure of the preliminary/comprehensive examination; an unsatisfactory evaluation of a thesis or dissertation; failure of a research defense; or any other failure of a required component of one’s program of study. Any, or a combination of these, may constitute the basis for the termination of a student’s graduate study in a degree program. Individual programs have the right to establish their own criteria. 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).
Additionally 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 GTAs/GTA3 certification prepare a 10-15 minute
interactive mini-lesson that would be presented 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)—This assistantship level requires completion of the Microteaching Simulation/Classroom Certification Evaluation of the GTAC. The graduate assistant will teach classes for credit as the instructor of record and/or as the person primarily responsible for assigning grades. The Southern Association of Colleges and Schools (SACS) accreditation requirements mandate that the graduate student must possess, at minimum, a master’s in the teaching discipline or 18 graduate semester hours (seminar and research hours excluded) completed in the teaching discipline. Direct supervision by a faculty member experienced in the teaching discipline, regular in-service training, and planned and periodic evaluations are also required by SACS. Human Resources Management may require additional paperwork for verification of teaching credentials including submission of transcripts from each institution attended.

Students must satisfy all program/evaluation requirements necessary to obtain the level of certification (GTA1, GTA2, GTA3) corresponding to the duties/responsibilities of the teaching assistantship appointment. Waivers to allow classroom/laboratory teaching (GTA2/GTA3 levels) without successful completion of all 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, located 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, PCAT, and TOEFL. Registration information can be obtained from test program websites listed on our website at www.ats.msstate.edu/testing. Visit or call 662-325-6610 for additional information.

BOOKS AND SUPPLIES
MSU leases its bookstore to Barnes & Noble 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 Cafe 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.

**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

C² 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 or telephone 662-325-0923.

**HEALTH SERVICES**

University Health Services and The Longest Student Health Center are designed to give primary medical care to students with mental and physical health issues. The Health Center is open during regular school sessions to all 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 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 4,850 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.

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/ or contact the Department of Housing and Residence Life by phone at 662-325-3555, by fax at 662-325-4663, or by e-mail at housing@saffairs.msstate.edu.

**INTERNATIONAL SERVICES**

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

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

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

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

**PARKING SERVICES**
Regulations for the control, direction, parking, and general regulation of traffic and automobiles on campus have been approved by the Board of Trustees for State Institutions of Higher Learning. Any person who regularly or occasionally operates or parks a motor vehicle on the campus and streets of Mississippi State University will register such vehicle at the beginning of each school year or within 24 hours (excluding weekends and holidays) after it is first brought on the University campus or streets. The permit issued must be properly displayed on the vehicle. Parking areas are assigned to residence hall students, commuter students, and staff. All parking areas are marked clearly and identified properly by appropriate signs. The Office of Parking Services website at http://www.parkingservices.msstate.edu/ provides complete information regarding regulations, services, and permit application. Graduate students who hold assistantships should contact Parking Services for information regarding their permits.

**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/facilities/sanderson.php.

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

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

Student Counseling Services staff is composed of experienced professionals with training in counseling, social work, psychology, and psychiatry who are knowledgeable in facilitating personal growth and development. Student Counseling Services offers individual and group counseling, medication assessment and 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/.
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>Tuition &amp; Required Fees (T&amp;RF)–Full-time</th>
<th>Fall</th>
<th>Spring</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Resident T&amp;RF</td>
<td>$3,132.00</td>
<td>$3,132.00</td>
<td>$5,805.00</td>
</tr>
<tr>
<td>*Non Resident Tuition</td>
<td>$4,782.00</td>
<td>$4,782.00</td>
<td>$8,865.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tuition &amp; Required Fees (T&amp;RF)–Part-time (Hourly rate rounded) 1-8 hours</th>
<th>Fall, Spring, Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Resident T&amp;RF</td>
<td>$348.00</td>
</tr>
<tr>
<td>*Non Resident Tuition</td>
<td>$531.50</td>
</tr>
</tbody>
</table>

*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-du financial obligation to the University.
—The student’s records may be cleared and a 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-BUCK$ 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, select myState; secure user access using your personal NetID and password; click on the Banner tab for access to the following services:
1. Change your billing address and/or E-mail address
2. View your current or prior billing statement
3. View your account detail history
4. Make a payment by credit card or e-check
5. Authorize another user to help manage or make payment to your account
6. Access a remittance stub to make a payment via US mail
7. View your pending financial aid or scholarships
8. Use the BULL-e-BUCK$ program to direct-deposit your refund or make a transfer to your MoneyMate account

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

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

TUITION EXEMPTIONS
Employees—Mississippi State University “Benefits Eligible” employees who have appropriate approval may have tuition remitted for up to 6 credit hours per semester with a maximum of 18 credit hours per calendar year. Employees are required to pay tuition and required fees for any additional hours taken during the enrollment period and other assessments to their student account. In order to receive tuition remission, employees must gain admission/readmission to the University and complete the Application for Tuition Remission – Employee form. The application must be completed and forwarded to the Sponsored Student Office, 153 Garner Hall, at the beginning of the semester.

Senior Citizens—Legal residents of the State of Mississippi age 60 or older may enroll tuition-free in a maximum of 6 hours per semester with a maximum of 18 credit hours per calendar year. 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.

Course Numbers  Level of Credit

1001-2999  Lower division courses (Undergraduate credit only)
3001-4999  Upper division courses (Undergraduate credit only)
4001  Directed Individual Study (Undergraduate credit only)
5001-5999  Fifth year undergraduate or Professional courses
6011-6999  Courses for graduate credit only
7011-7999  Courses for graduate credit only
8011-8999  Courses for graduate credit only
9011-9999  Courses for graduate credit only
7000  Directed Individual Study (Graduate credit only)
8000  Master’s level research and thesis
9000  Doctoral level research and dissertation

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

Certain departments do not offer major or minor graduate courses as such but may offer an occasional supporting graduate course in a major or minor field.
Office of Academic Affairs

International Institute
More than ever, global economic development, scientific exploration, and security are interconnected. The International Institute at Mississippi State University fully integrates our landgrant 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.

International Education
ESL Center
Alison Stamps, Coordinator
104A Memorial
Mississippi State, MS 39762
Telephone: 662-325-2648
E-mail: eslc@aoc.msstate.edu
website: www.inted.msstate.edu

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

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

Courses:
- ESL 5110 American Language and Culture I (TOEFL score between 457 and 499 [or equivalent] or consent of instructor). 1-18 hours (Does not count towards any degree)
- ESL 5120 American Language and Culture II (ESL 5110 or TOEFL score between 500 and 524 [or equivalent] or consent of instructor). 1-18 hours (Does not count towards any degree)
- ESL 5323 Academic Research and Writing (ESL 5120 or TOEFL score above 500 [or equivalent]). 3 hours (Does not count towards any degree)
- ESL 5333 Critical Reading (ESL 5120 or TOEFL score above 500 [or equivalent]). 3 hours (Does not count towards any degree)
- ESL 5313 Classroom Communication and Presentation (ESL 5120 or TOEFL score above 525 [or equivalent]). 3 hours (Does not count towards any degree)
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.
Degree and Certificate Programs
(T=thesis; NT=non-thesis)
[1=Starkville, 2=Meridian, 5=Distance]

Department of Agricultural Economics
Master of Science
Major: Agriculture
Concentration: Agricultural Economics (T; NT) [1]

Doctor of Philosophy
Major: Agricultural Sciences
Concentrations: Animal and Dairy Science [1]
Animal Nutrition [1]

Department of Animal and Dairy Sciences
Master of Science
Major: Agriculture
Concentration: Animal Science (T; NT) [1]

Doctor of Philosophy
Major: Agricultural Sciences
Concentrations: Animal and Dairy Science [1]

Department of Biochemistry, Molecular Biology, Entomology, and Plant Pathology
Master of Science
Major: Agricultural Life Sciences
Concentration: Biochemistry (T; NT) [1]
Entomology (T) [1]
Plant Pathology (T) [1]

Doctor of Philosophy
Major: Molecular Biology [1]

Doctor of Philosophy
Major: Life Sciences
Concentration: Biochemistry [1]
Entomology [1]
Plant Pathology [1]

Department of Food Science, Nutrition and Health Promotion
Master of Science
Major: Food Science, Nutrition and Health Promotion
Concentration: Food Science & Technology (T) [1]
Health Promotion (T; NT) [1]
Nutrition (T) [1]

Doctor of Philosophy
Major: Food Science, Nutrition and Health Promotion
Concentration: Food Science and Technology [1]
Nutrition [1]

School of Human Sciences
Master of Science
Major: Agricultural & Extension Education (T; NT) [1]
Concentration: 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 [1]
Concentration: Agricultural & Extension Education [1]

Gerontology Graduate Certificate
Department of Landscape Architecture
Master of Landscape Architecture
Major: Landscape Architecture (T) [1]

Department of Plant and Soil Sciences
Master of Science
Major: Agriculture
Concentration: Agronomy (T; NT) [1]
Horticulture (T) [1]
Weed Science (T) [1]

Doctor of Philosophy
Major: Agricultural Sciences
Concentration: Agronomy [1]
Horticulture [1]
Weed Science [1]

Department of Poultry Science
Master of Science
Major: Agriculture
Concentration: Poultry Science (T; NT) [1]

Doctor of Philosophy
Major: Agricultural Sciences
Concentration: Poultry Science [1]
Interdisciplinary Curricula
These programs are based on course offerings from several departments and colleges, including but not limited to Agricultural and Biological Engineering; Agricultural Economics; Animal and Dairy Sciences; Basic Science (College of Veterinary Medicine); Biochemistry and Molecular Biology; Biological Sciences (College of Arts and Sciences); Entomology and Plant Pathology; Poultry Science; Wildlife and Fisheries (College of Forest Resources) and the College of Business.

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

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

Doctor of Philosophy
Major: Agricultural Sciences
Concentrations: Animal Nutrition (T) [1]

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

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.

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 food supply and safety, biotechnology, and improved standards of living and education in rural communities. New graduate programs are available in Human Development and Family Studies. Graduate education is also available in Landscape Architecture (one of a few programs in the nation). A master’s degree with a concentration in health promotion is available through distance learning and is designed for professionals interested in enhancing their skills in designing, implementation, and evaluation of disease prevention and health promotions.

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

The Master of Agribusiness Management (M.A.B.M.) program is an interdisciplinary degree between the College of Agriculture and Life Sciences and the College of Business and is administered by the Department of Agricultural Economics. The program is designed to prepare students for employment in the management of agribusiness. Graduate coursework may begin in any semester. Additional information is found at the department’s website, www.agecon.msstate.edu/academics/agribusmgmt.

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.

- **ACC 2203** Survey of Accounting (or ACC 2013 Principles of Financial and ACC 2023 Managerial Accounting)
- **BQA 8443** Statistical Analysis for Business Decision Making (or BQA 2113 Business Statistical Methods I and BQA 3123 Business Statistical Methods II)
- **EC 4043** Survey of Economics (or EC 2113 Principles of Macroeconomics and EC 2123 Principles of Microeconomics)
- **FIN 3123** Financial Management
- **MGT 8063** Survey of Management (or MGT 3114 Principles of Management and Production)
- **MKT 3013** Principles of Marketing

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

- **ACC 8112** Financial Statement and Management Accounting Report Analysis for Decision Making
- **AEC 6530** Agribusiness Internship
- **AIS 8203** Advanced Communication in Agricultural Information Sciences
- **FIN 8113** Corporate Finance
- **MKT 8153** Marketing Management

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

**Program of Study/Completion Requirements**

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

**Agricultural and Biological Engineering**

**Dr. Jonathan Pote, Department Head**
**Dr. Jeremiah Davis, Graduate Coordinator**
150 Agricultural Engineering Building
Box 9632
Mississippi State, MS 39762
Telephone: 662-325-3282
E-mail: abe.head@abe.msstate.edu

Graduate study is offered in the Department of Agricultural and Biological Engineering leading to the degree of Master of Science in Agriculture with a concentration in Engineering Technology or a Doctor of Philosophy in Agricultural Sciences with a concentration in Engineering Technology.

**Admission Criteria**

Prerequisites for admission into the graduate program include all the general requirements of the Office of the Graduate School, completion of the GRE general test and the submission of scores, and identification of a departmental professor who is willing to serve as research director for the master’s or Ph.D. project. International students must obtain a TOEFL score of 550 PBT (213 CBT or 79 iBT) or an IELTS (International English Language Testing Systems) score of 6.5 or higher. Exceptions to these requirements are considered on a case-by-case basis and require approval of the Department Chair.

**Provisional Admission**—If a student does not fully meet the admission requirements of the program, it may be possible for that student to be provisionally admitted. If provisionally admitted, the student must attain a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University after admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.

**Program of Study/Completion Requirements**

**Master’s Thesis Option**—The Master of Science degree in Agriculture with a concentration in Engineering Technology requires a minimum of 24
credit hours of coursework beyond the baccalaureate degree, at least one-half of which must be from the ≥ 8000 level courses, and 6 or more credit hours of research/thesis for students in the thesis option. Required courses are ST 8114 and 1 credit hour of ABE 8911, ABE 8921, or ABE 8931. A thesis and an oral comprehensive examination in defense of the thesis are required. Once the student’s research plan has been established, the student is required to present his/her research plan to the faculty in the form of a departmental seminar.

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

**Doctoral**—Doctoral students are required to complete a minimum of 60 credit hours of coursework beyond the baccalaureate degree, at least one-half of which must be from 8000-level courses or above, including at least 2 credit hours of ABE 8911, ABE 8921, or ABE 8931. Twenty hours of research, a preliminary examination, a dissertation, and an oral examination in defense of the dissertation are required. Once the student’s research plan has been established, the student is required to present his/her research plan to the faculty in the form of a departmental seminar.

**Academic Performance**

Unsatisfactory performance in the graduate program in Agricultural and Biological Engineering is defined as any of the following: failure to maintain a 3.00 average GPA in attempted graduate courses after admission to the program; a grade of U, D, or F in any one course; more than two courses with a grade of C; failure of the research defense; unsatisfactory evaluation of a thesis; or failure of a required component of the program of study. Any one of these, or a combination of these, will constitute the basis for review for possible dismissal. The graduate coordinator will review the record, along with the student’s graduate committee, and take a final course of action which will be immediate dismissal or the establishment of a probationary period in which corrective action must take place. Appeal of dismissal can be made by submitting a written appeal statement to the department head. If the dismissal is upheld by the department upon the student’s appeal, the student can then submit a written appeal to the dean of the College of Agriculture and Life Sciences.

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

- ABE 6163 Agricultural Machinery Management. 3 hours
- ABE 6263 Soil and Water Management (ABE 2873). 3 hours
- ABE 6383 Building Construction (EG 1143). 3 hours
- ABE 6453 Cotton Ginning Systems and Management. 3 hours
- ABE 6473 Electrical Application (ABE 1863). 3 hours
- ABE 6844 Sustainable Communities [Same as LA 4844/6844]. 4 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. Credit hours to be arranged; minimum of 6 hours required for degree
- 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. Credit hours to be arranged; minimum of 20 hours required for degree

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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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](http://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.

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**Fall Semester, First Year**

- AEC 8611  Research Seminar I. 1 hour
- AEC 6713  Quantitative Economics. 3 hours
- AEC 6733  Econometric Analysis in Agricultural Economics. 3 hours
- AEC 8163  Consumers, Producers, and Markets. 3 hours

**Spring Semester, First Year**

- AEC 8621  Research Seminar II. 1 hour
- AEC 8143  Agricultural Production Economics. 3 hours
- AEC 6233  Environmental Economics. 3 hours
- 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 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 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>ADS 6112</td>
<td>Equine Reproduction [Same as PHY 6112]</td>
<td>3 hours</td>
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<tr>
<td>ADS 6115</td>
<td>Animal Nutrition (CH 2503 and CH 2501 or CH 4513 and CH 4511)</td>
<td>5 hours</td>
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<tr>
<td>ADS 6123</td>
<td>Animal Breeding (PO 3103)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ADS 6213</td>
<td>Livestock Nutrient Requirements and Formulation of Rations</td>
<td>3 hours</td>
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</tbody>
</table>
Animal Nutrition
An Interdisciplinary Curriculum
Dr. Brian Rude, Graduate Coordinator
4024 Wise Center
Box 9815
Mississippi State, MS 39762
Telephone: 662-325-2933
E-mail: brude@ads.msstate.edu

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

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

Admission Criteria
Prerequisites for admission include a bachelor’s degree in Animal, Dairy or Poultry Sciences; Food Science, Nutrition, and Health Promotion; Fisheries or Aquatic Science; Biological or Physical Science with an adequate background in chemistry. A minimum of 3.00 quality point average on a 4.00 scale is required. The quality point average can be based on either overall undergraduate degree work or the last two years (60 semester hours) of undergraduate work. Any request for Graduate Record Examination (GRE) test scores is dependent upon the faculty member who will serve as the thesis director (major professor), but the GRE score is not an Animal Nutrition graduate program requirement. A statement of purpose and letters of recommendation are required of all applicants.

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the graduate program for Animal Nutrition for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. The student must have as his or her initial objective advancement to regular status. A provisional student must receive a 3.00 GPA for the first 9 hours of graduate-level courses on his or her program of study taken at Mississippi State University (courses with an S grade, transfer credits, or credits 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 a 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
Holly T. Boland, Assistant Research/Extension Professor, Animal and Dairy 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
Jane A. Parish, Associate Extension/Research Professor, Animal and Dairy Sciences
Daniel Rivera, Assistant Research/Extension Professor, Animal and Dairy Sciences
Brian J. Rude, Professor, Animal and Dairy Sciences
Ty B. Schmidt, Assistant Professor, Animal and Dairy Sciences

Graduate Courses—Course prerequisites are noted in parenthesis.
ADS 6115 Animal Nutrition (CH 2503, CH 2501). 5 hours
FNH 6233 Medical Nutrition Therapy (FNH 2293 or consent of instructor). 3 hours
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
Admission Criteria

Prerequisites for admission include a bachelor’s or master’s degree in animal, dairy or poultry science; human sciences; wildlife; fisheries or aquatic science; biological or physical science; or a doctor of medicine or veterinary medicine degree with an adequate background in chemistry. A minimum of 3.00 overall grade point average (GPA) on a 4.00 scale is required. A student who has not fully met the requirements stipulated by the University and the program for admission (i.e., students with 2.50 to 2.99 GPA) may be granted admission to the Animal Physiology program with provisional status. The Graduate Record Exam (GRE) is not required for admission, but applicants are required to attempt the GRE. A paper-based (PBT) TOEFL (Test of English as a Foreign Language) of 575 (233 CBT or 84 iBT) or an IELTS (International English Language Testing Systems) score of 7.0 or better is required of all international applicants. Letters of recommendation are required of all applicants.

Provisional Admission—A student recommended for provisional admission is required to achieve a 3.00 GPA on the first 9 hours of graduate courses in order to achieve regular status. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 is not attained, the provisional student may be dismissed from the program and graduate study. An overall GPA of 3.00 is required for graduation. To be eligible for the preliminary/comprehensive examination, a graduate student must maintain an overall B average in all graduate courses attempted after admission to the program.

M.S. Program of Study

The Master of Science degree requires a minimum of 30 hours of graduate credit (including 6 hours of Research/Thesis), a research thesis, and thesis defense. The Animal Physiology program does not offer a non-thesis M.S. degree. The student is required to take at least two hours of Physiology Seminar (PHY 8811-41). Other course requirements may include BCH 6603 and/or BCH 6613 and ST 8114 or equivalents. Of the 24 hours (minimum number of hours) of graduate coursework required, half must be taken at the 8000 level. A minor is not required but if selected an additional 9 hours of credit is required and a committee member from the minor area is required. A graduate program of study should be submitted and approved by the student’s graduate committee and graduate coordinator by the end of the first semester of graduate study. The graduate committee should be composed of the major professor and two committee members, one of whom should be a member of the Animal Physiology

Animal Physiology
An Interdisciplinary Program
Dr. Peter Ryan, Graduate Coordinator
4025 Wise Center
Box 9815
Mississippi State, MS 39762
Telephone: 662-325-3802
E-mail: ryan@cvm.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.

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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 email at ryan@cvm.msstate.edu. An application for admission should be submitted directly to the Office of the Graduate School, Box G, Mississippi State, MS 39762.

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

**Animal Physiology Courses**—Course prerequisites are noted in parentheses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
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<tbody>
<tr>
<td>PHY 6112</td>
<td>Equine Reproduction (same as ADS 6112)</td>
<td>2 hours</td>
</tr>
<tr>
<td>PHY 6114</td>
<td>Cellular Physiology (same as BIO 6114)</td>
<td>4 hours</td>
</tr>
<tr>
<td>PHY 6335</td>
<td>Anatomy and Physiology of Insects (ENT 6154)</td>
<td>5 hours</td>
</tr>
<tr>
<td>PHY 6514</td>
<td>Animal Physiology (same as BIO 6514)</td>
<td>4 hours</td>
</tr>
<tr>
<td>PHY 6611</td>
<td>Practice in Physiology of Reproduction (ADS 6613 or taken concurrently)</td>
<td>1 hour</td>
</tr>
<tr>
<td>PHY 6613</td>
<td>Physiology of Reproduction (BIO 1504 or VS 2014)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHY 6623</td>
<td>Physiology of Lactation (VS 2013 or BIO 1504)</td>
<td>3 hours</td>
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<tr>
<td>PHY 6843</td>
<td>Poultry Physiology (same as PO 6843)</td>
<td>3 hours</td>
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<tr>
<td>PHY 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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</tr>
<tr>
<td>PHY 8000</td>
<td>Thesis Research/Thesis. Credit hours to be arranged; minimum of 6 hours required for degree</td>
<td></td>
</tr>
</tbody>
</table>
Biochemistry, Molecular Biology, Entomology, and Plant Pathology

Dr. Scott Willard, Department Head

404 Dorman Hall
Box 9655
Mississippi State, MS 39762
Telephone: 662-325-2640
E-mail: swillard@bch.msstate.edu

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

Admission Criteria

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

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the appropriate department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. Such students must have as their initial objective advancement to regular status. A provisional student must receive a 3.00 GPA on the first 9 hours of graduate-level courses on their programs of study taken at Mississippi State University in order to achieve regular status. Courses

Applied Economics

An Interdisciplinary Program

Dr. Mike Highfield, Department Head

Dr. Randy Campbell, Graduate Coordinator

326 McCool Hall
Box 9580
Mississippi State, MS 39762
Telephone: 662-325-2341
E-mail: gsb@cobilan.msstate.edu
website: grad-econ@cobilan.msstate.edu

The Ph.D. in Applied Economics is a cooperative program offered by the graduate economics faculty of the College of Business and the Agricultural Economics faculty of the College of Agricultural and Life Sciences. The program provides advanced training in economic science to prepare graduates for research and teaching positions in academia, government, and business. For additional program information, e-mail the Economics Graduate Coordinator at grad-econ@cobilan.msstate.edu or phone 662-325-2341.

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
Academic Performance

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

Completion Requirements

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

Discipline-Specific Program Information

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

Biochemistry and Molecular Biology Programs

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

M.S. in Agricultural Life Sciences

Biochemistry Concentration

Program of Study/Completion Requirements

The program requires a minimum of 24 hours of graduate coursework including successful completion of BCH 6603 and BCH 6613 (prerequisites), BCH 6414, BCH 6804, BCH 8654 (students completing the split-level BCH core courses at MSU at the 4000-level are exempt from these classes, and other approved courses will be substituted in consultation with the major professor and the student’s graduate committee, and two hours of Seminar credit (BCH 8101). The first formal seminar should be within the first 1.5 years the student is in residence. The final seminar will be a presentation of the final research results of the student. It is recommended that the doctoral program include enrichment courses to be approved by the graduate committee. The enrichment program would consist of 12 course credits or equivalent special projects or directed individual study related to the specific interests and needs of the student.

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BCH 6013</td>
<td>Principles of Biochemistry (CH 2503, BIO 1504)</td>
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<tr>
<td>BCH 6113</td>
<td>Essentials of Molecular Genetics</td>
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</tr>
<tr>
<td>BCH 6253</td>
<td>Nutritional Biochemistry of Foods (CH 2503 or equivalent with instructor’s consent. FNHP and BCH students only)</td>
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<tr>
<td>BCH 6333</td>
<td>Advanced Forensic Science (BCH 4013/6013 or BCH 4603 and BCH 4613/6613 or consent of instructor)</td>
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<tr>
<td>BCH 6414</td>
<td>Protein Methods (Coregistration in BCH 4603/6603)</td>
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<tr>
<td>BCH 6503</td>
<td>Scientific Communication Skills (Graduate standing)</td>
<td>3</td>
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<tr>
<td>BCH 6603-6613</td>
<td>General Biochemistry (CH 4523/6523 or consent of instructor)</td>
<td>3</td>
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<tr>
<td>BCH 6623</td>
<td>Biochemistry of Specialized Tissues</td>
<td>3</td>
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<tr>
<td>BCH 6713</td>
<td>Molecular Biology (coregistration in BCH 4613/6613)</td>
<td>3</td>
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<tr>
<td>BCH 6804</td>
<td>Molecular Biology Methods (coregistration in BCH 4613/6613)</td>
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<tr>
<td>BCH 6990</td>
<td>Special Topics in Biochemistry</td>
<td>1-9</td>
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<tr>
<td>BCH 7000</td>
<td>Directed Individual Study</td>
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<td>BCH 8000</td>
<td>Thesis Research/Thesis. Credit hours to be arranged; minimum of 6 hours required for degree</td>
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<tr>
<td>BCH 8101</td>
<td>Seminar</td>
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<tr>
<td>BCH 8133</td>
<td>Biochemical Oxidations and Bioenergetics (BCH 4613/6613)</td>
<td>3</td>
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<td>BCH 8243</td>
<td>Molecular Biology of Plants (coregistration in BCH 4613/6613)</td>
<td>3</td>
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<tr>
<td>BCH 8613</td>
<td>Membrane Biochemistry (BCH 4613/6613)</td>
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<tr>
<td>BCH 8623</td>
<td>Genomes and Genomics (BCH 4113/6113 or BCH 4713/6713 or BCH 8643 or consent of instructor)</td>
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<tr>
<td>BCH 8631</td>
<td>Topics in Genomics (PSS/BCH 8623 or BCH 4713/6713 or BCH 8643 or consent of instructor)</td>
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<td>BCH 8633</td>
<td>Enzymes (BCH 4613/6613)</td>
<td>3</td>
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<tr>
<td>BCH 8643</td>
<td>Molecular Genetics (PO 3103 or BIO 3103 and coregistration in BCH 4613/6613)</td>
<td>3</td>
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<tr>
<td>BCH 8654</td>
<td>Intermediary Metabolism (BCH 4613/6613)</td>
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<tr>
<td>BCH 8990</td>
<td>Special Topics in Biochemistry</td>
<td>1-9</td>
</tr>
<tr>
<td>BCH 9000</td>
<td>Dissertation Research/Dissertation. Credit hours to be arranged; minimum of 20 hours required for degree</td>
<td></td>
</tr>
</tbody>
</table>

**Entomology and Plant Pathology Programs**

**Dr. Michael Caprio, Graduate Coordinator**

103 Clay Lyle Entomology Complex
Box 9775
Mississippi State, MS 39762
Telephone: 662-325-2085
E-mail: mcaprio@entomology.msstate.edu

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

Entomology or Plant Pathology Concentration

**Program of Study/Completion Requirements**

Students in this degree program and discipline concentrations must complete 24 credit hours in
coursework above the baccalaureate degree; at least half of the coursework must be at the 8000-level or higher. The remainder of credit hours to be completed would include research thesis hours (a minimum of 6 hours is required on the program of study.) The program of study must include 2 credit hours of Seminar (EPP 8111 and 8121).

**Ph.D. in Life Sciences**

**Entomology or Plant Pathology Concentration**

**Program of Study/Completion Requirements**

This program requires 60 credit hours of coursework above the baccalaureate degree. The program of study must include 2 hours of Seminar credit (EPP 8111 and 8121). It is recommended that the doctoral program include enrichment courses to be approved by the graduate committee. The enrichment program would consist of 12 course credits or equivalent special projects or study areas related to the specific interests and needs of the student.

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

The student must pass written and oral preliminary examinations dealing with his/her program of study. A student not passing the preliminary exams on a second attempt will be given the option of completing the research required for an M.S. (provided the coursework is also adequate). The student must pass a final oral defense of the dissertation upon completion of the research program.

**Graduate Courses:**

| EPP 6113 | Principles of Plant Pathology (BIO 1203 or consent of instructor). 3 hours |
| EPP 6152 | Taxon – Fungi Imperfecti (Consent of instructor). 2 hours |
| EPP 6154 | General Entomology. 4 hours |
| EPP 6162 | Taxon – Ascomycetes (Consent of instructor). 2 hours |
| EPP 6163 | Plant Disease Management (EPP 3113). 3 hours |
| EPP 6164 | Insect Taxonomy (EPP 4154). 4 hours |
| EPP 6172 | Taxon – Basidiomycetes (Consent of instructor). 2 hours |
| EPP 6173 | Medical and Veterinary Entomology (EPP 4154 or consent of instructor). 2 hours |
| EPP 6182 | Taxon – Oom and Zyg (Consent of instructor). 2 hours |
| EPP 6214 | Disease of Crops (EPP 3113 or 3124). 4 hours |
| EPP 6234 | Field Crop Insects (EPP 2213 or 4154). 4 hours |

| EPP 6244 | Aquatic Entomology (EPP 4154 or instructor approval). 4 hours |
| EPP 6263 | Principles of Insect Pest Management. 3 hours |
| EPP 6335 | Anatomy and Physiology of Insects (EPP 4154 [same as PHY 6335]). 5 hours |
| EPP 6523 | Turfgrass Diseases (EPP 3113 or 3124). 3 hours |
| EPP 6543 | Toxicology and Insecticide Chemistry (organic chemistry). 3 hours |
| EPP 6990 | Special Topics in Entomology or Plant Pathology. 1-9 hours |
| EPP 7000 | Directed Individual Study. 1-6 hours |
| EPP 8000 | Thesis Research/Thesis. Credit hours to be arranged; minimum of 6 hours required for degree |
| EPP 8111 | Seminar. 1 hour |
| EPP 8113 | Plant Nematology (EPP 3113). 3 hours |
| EPP 8121 | Seminar. 1 hour |
| EPP 8123 | Plant Virology (EPP 4113/6113 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 8890 | 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. Juan L. Silva, Graduate Coordinator
Herzer Building
Box 9805
Mississippi State, MS 39762
Telephone: 662-325-3200
Fax: 662-325-8728
E-mail: ils46@msstate.edu
website: http://www.fsnhp.msstate.edu/

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

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

M.S. in Food Science, Nutrition and Health Promotion
Food Science and Technology Concentration
In 1983 the Board of Trustees of Institutions of Higher Learning designated Mississippi State University (MSU) as the flagship university for a food science program in the state of Mississippi. The designation basically stated that MSU would be the only university in the state with such a program. A student may work toward a Master of Science in Food Science, Nutrition and Health Promotion with a concentration in Food Science and Technology by selecting courses from Food Science, Nutrition and Health Promotion and allied areas such as biochemistry, microbiology, animal and dairy sciences, and other disciplines. Faculty, staff members, and facilities of the cooperating departments are utilized. A Bachelor of Science in Food Technology, Food Science, or related areas will be considered to meet the prerequisites for study toward an advanced degree. Students from other disciplines may be required to take leveling courses generally not to exceed 15 semester hours.

Nutrition Concentration
A Master of Science degree in Food Science, Nutrition and Health Promotion with a concentration in Nutrition is offered by selecting courses in Food Science, Nutrition and Health Promotion; Statistics; and Biochemistry.

The Dietetic Internship is an innovative, post-baccalaureate program designed to prepare interns for rewarding careers in traditional and non-traditional roles. Interns complete the requirements for the Dietetic Internship and 6 hours of coursework in Food Science, Nutrition and Health Promotion with an emphasis in nutrition. The MSU Dietetic Internship Program provides hands-on experience in various clinical research, food service management, community nutrition, and nutrition education activities that registered dietitians encounter. Interns work with faculty, site coordinators, and preceptors in outpatient clinics, various inpatient settings, community settings, classrooms, and other locations as they build skills and broaden their understanding of modern dietetics. Upon completion of the internship, a graduate is prepared for the Registration Examination of the Commission on Dietetic Registration and successful entry-level practice. Students may also pursue a M.S. degree at the same time.

The Mississippi State University Dietetic Internship Program is currently granted accreditation by the Commission on Accreditation for Dietetics Education of the American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 312-899-0040, ext. 5400. Dietetic interns must be admitted to graduate studies at MSU. For additional information contact Dietetic Internship Program Director, Box 9805, Mississippi State, MS 39762-9805 or visit the departmental website: http://www.fsnhp.msstate.edu/.

Health Promotion Concentration
A Master of Science degree in Food Science, Nutrition and Health Promotion with a concentration in Health Promotion is available. This program is designed to equip students for careers as health educators, health promotion specialists, and health scientists. Graduates from this program will be trained for careers in school health, public health, and/or violence and injury prevention.

Admission Criteria
A minimum of a 2.75 GPA (undergraduate work) is required for graduate work if accrued over a four-year average. If accrued over a two-year period, a 3.00 GPA is required. Applicants must take the Graduate Record Examination (GRE). International students are required to have a minimum TOEFL (Test of English as a Foreign Language) score of 550 PBT (213 CBT or 79 iBT) or an IELTS (International English Language Testing Systems) score of 6.5.

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**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...
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 from Food Science, Nutrition and Health Promotion and in Biochemistry and Statistics. A Master of Science in Nutrition or Health Promotion will be considered to meet the prerequisites for study towards a doctorate. A student from other disciplines may be required to take leveling courses generally not to exceed 15 semester hours.

Admission Criteria

For regular admission to the Ph.D. program in Food Science, Nutrition and Health Promotion, an applicant must have a minimum grade point average of 2.75 (undergraduate) if accrued over a four-year average. If accrued over a two-year period, a 3.00 grade point average is required. An applicant must have a minimum grade point average of 3.00 on M.S. work. In addition, the applicant must submit Graduate Record Examination (GRE) verbal, quantitative, and writing scores. International students are required to have a minimum TOEFL (Test of English as a Foreign Language) score of 550 PBT (213 CBT or 79 iBT) or an IELTS (International English Language Testing Systems) score of 6.5.

Program of Study/Completion Requirements

The minimum number of coursework hours for a Ph.D. student varies according to the specific requirements of the department and the student’s needs but usually requires a minimum of 60 hours of coursework beyond the B.S. degree. In establishing the Ph.D. candidate’s program, the graduate committee assists the student in arranging his/her major and may specify a minor as well. When required, a minor in a doctoral program requires at least 12 hours of graduate coursework in the chosen discipline. A committee member from the minor area is required.

Food Science and Technology Concentration

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

Nutrition Concentration

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

Great reliance is placed on the student’s graduate committee and especially the major professor to develop a program of study commensurate with the goals and background of the student while maintaining the standards of the department.

A Ph.D. candidate must demonstrate mastery of a particular field of knowledge, the techniques of research, and of the correlation of his/her specialty with the larger areas of knowledge, especially those directly related to his/her own field of interest. At the conclusion of the dissertation research, the student will present his/her research in the form of a seminar to an open audience and to the committee as part of the examination requirement.

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, 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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FNH 6114</td>
<td>Analysis of Food Products (CH 2503)</td>
<td>4 hours</td>
</tr>
<tr>
<td>FNH 6123</td>
<td>Fermented Foods Processing (BIO 3304)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6143</td>
<td>Dairy Foods Processing.</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6153</td>
<td>Food Plant Management (Consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6164</td>
<td>Quality Assurance of Food Products (BIO 3304).</td>
<td>4 hours</td>
</tr>
<tr>
<td>FNH 6173</td>
<td>Food Packaging (Consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6193</td>
<td>Social and Cultural Aspects of Food.</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6223</td>
<td>Sports Nutrition (FNH 2293 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6233</td>
<td>Medical Nutrition Therapy (FNH 4263/6263 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6241</td>
<td>Applied Food Chemistry (BCH 3613 and prior credit for/or current enrollment in FNH 4243/6243).</td>
<td>1 hour</td>
</tr>
<tr>
<td>FNH 6243</td>
<td>Composition and Chemical Reactions of Foods (CH 1053 and CH 2503 or equivalent)[same as ADS 6243].</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6253</td>
<td>Nutritional Biochemistry of Foods (CH 2503 or equivalent with consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6263</td>
<td>Nutrition and Chronic Disease (FNH 2293, FNH 4253, or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6273</td>
<td>Nutrition Assessment (BCH 3613 and FNH 4233 or equivalent).</td>
<td>3 hours</td>
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<tr>
<td>FNH 6274</td>
<td>Advanced Food Service Management (FNH 3274, FNH 4283).</td>
<td>4 hours</td>
</tr>
<tr>
<td>FNH 6283</td>
<td>Purchasing Food and Equipment for Foodservice Systems.</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6293</td>
<td>Vitamins, Minerals and Supplements (CH 2503 or equivalent with consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6313</td>
<td>Advanced Science of Muscle Foods [Same as ADS 4313/6313].</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6314</td>
<td>Introduction to Meat Science.</td>
<td>4 hours</td>
</tr>
<tr>
<td>FNH 6333</td>
<td>Food Law (Consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6353</td>
<td>Nutrition/Life Cycle (BIO 4253/6253 or consent of instructor) [same as HS 4353/6353].</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6373</td>
<td>Career Skills in FNH.</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6393</td>
<td>Prevention and Control of Disease.</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6414</td>
<td>Microbiology of Foods (BIO 3404) [same as BIO 6414].</td>
<td>4 hours</td>
</tr>
<tr>
<td>FNH 6513</td>
<td>Poultry Processing [Same as PO 6513].</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6573</td>
<td>Food Engineering Fundamentals (MA 1713, PH 1123 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6583</td>
<td>Food Preservation Technology [same as PSS 4583/6583].</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6593</td>
<td>New Food Product Development.</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6613</td>
<td>Seafood Processing.</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6990</td>
<td>Special Topics in Food Science and Technology.</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>FNH 7000</td>
<td>Directed Individual Study</td>
<td></td>
</tr>
</tbody>
</table>

**Food Science, Nutrition and Health Promotion Courses**—Course prerequisites are noted in parentheses.
FNH 8286  Supervised Practice Experience (Admission into the Dietetic Internship/Graduate Studies Program, may be repeated once; taken fall and spring semesters). 6 hours
FNH 8423  Meat Science (CH 4513/6513 or equivalent and BIO 3304 or equivalent). 3 hours
FNH 8333  Food Safety and Security in Public Health (Enrolled in graduate school, MPH program, or consent of instructor). 3 hours
FNH 8513  Poultry and Food Science Readings (PO 6513 or 3 hours in related courses offered in Animal and Dairy Sciences or Horticulture) [Same as PO 8513]. 3 hours
FNH 8523  Health Promotion Techniques. 3 hours
FNH 8543  Health Education for Diverse Populations. 3 hours
FNH 8553  Behavioral Epidemiology. 3 hours
FNH 8563  Principles of Epidemiology and Health Science Research. 3 hours
FNH 8572  Advanced Food Technology (FNH 6583 and/or consent of instructor). 2 hours
FNH 8593  Theory and Practice of Health Education. 3 hours
FNH 8613  Design/Administration of Health Promotion Programs. 3 hours
FNH 8623  Current Issues in School Health. 3 hours
FNH 8653  Implementation/Evaluation of Health Promotion. 3 hours
FNH 8983  Ingredient Technology. 3 hours
FNH 8990  Special Topics in Food Science, Nutrition and Health Promotion. 1-9 hours
FNH 9000  Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

Genetics
An Interdisciplinary Curriculum
Dr. Erdogan Memili, Graduate Coordinator
Wise Center, Room 4025
Box 9815
Mississippi State, MS 39762
Telephone: 662-325-2937
E-mail: em149@ads.msstate.edu

An opportunity is offered to the student who wishes to work toward a degree in Genetics. MSU offers a Master of Science degree in Agricultural Life Sciences with a concentration in Genetics and a Doctor of Philosophy in Life Sciences with a concentration in Genetics. The Genetics program is an interdisciplinary curriculum which utilizes the staff and facilities available in the various departments and colleges. A wide array of plant and animal material is available for genetic investigation. The student's complete program will be formulated in the department of his/her choice. Courses contributing to the major in genetics are listed below.

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

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the appropriate department for admission to graduate (GPA 2.75) may be granted permission as a degree-seeking graduate student with provisional status. Such student must have as his or her initial objective advancement to regular status. A provisional student must receive a 3.00 GPA on the first 9 hours of graduate-level courses on the program of study taken at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be use to satisfy this requirement) in order to achieve regular status. If a 3.00 is not attained, the provisional student will be dismissed from graduate study. While in the provisional status, the student is not eligible to hold a graduate assistantship.

Academic Performance
A candidate for a degree must average B or higher on all courses attempted for graduate credit after admission to the program. No grade under C will be accepted for graduate credit; thus, a student will be terminated if he or she obtains more than two grades below a C in courses taken for graduate credit or fails to obtain a C or better in any repeated course. With the approval of the graduate coordinator and the college dean, a student may retake one course per degree except for those approved for repeated credit (e.g. internships, special topics, individual studies, thesis, dissertation, etc.). Both courses will remain on the permanent transcript and both grades will be computed in final averages. This policy applies to all courses (even those not on the program of study) taken as a graduate student related to a specific program. Repeated courses must be taken at Mississippi State University. No additional program credit hours will be generated from a repeated course.

Prerequisite—Individuals with a Bachelor of Science in the biological or physical sciences will be considered.
M.S. Program of Study/ Completion Requirements
A comprehensive exam, 24 total hours of coursework, and a thesis (minimum of 6 hours) are required for completion of the thesis degree. A comprehensive exam and 30 total hours of coursework are required for the non-thesis degree. Specific courses and a graduate seminar class may be required as part of the 6 additional course credits in the non-thesis option as specified by the graduate committee. The students planning a major or minor in genetics should select the GNS prefix for each course when applicable.

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

Graduate Courses—Course prerequisites are noted in parentheses.

**Genetics:**

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

**Department Representative/ Title**

- **B. S. Baldwin** Professor, Plant and Soil Sciences
- **M. A. Caprio** Assistant Professor, Entomology
- **D. J. Chevalier** Assistant Professor, Biological Sciences
- **W. J. Diehl** Professor, Biological Sciences
- **D. M. Gordon** Assistant Professor, Biological Sciences
- **L. Hanson** Associate Professor, Veterinary Medicine
- **J. N. Jenkins** Director, USDA-ARS
- **Din-Pow Ma** Professor, Biochemistry
- **J. C. McCarty, Jr.** Research Agronomist, USDA-ARS
- **Erdogan Memili** Associate Professor, Animal and Dairy Sciences
- **E. D. Peebles** Professor, Poultry Science
- **G. T. Pharr** Assistant Professor, Veterinary Medicine
- **N. Reichert** Professor, Plant and Soil Sciences
- **D. E. Rowe** Professor, Plant and Soil Sciences, Experimental Statistics
- **T. Smith** Assistant Professor, Animal and Dairy Sciences
- **T. P. Wallace** Associate Professor, Plant and Soil Sciences
- **W. P. Williams** Research Geneticist, USDA-ARS
- **D. A. Wise** Professor, Biological Sciences

**School of Human Sciences**

**Dr. Michael Newman, Director**

120 Lloyd Ricks
Box 9745
Mississippi State, MS 39762
Telephone: 662-325-2950
E-mail: humansci@humansci.msstate.edu

**Agricultural and Extension Education**

**Dr. Kirk Swortzel Graduate Coordinator**

214 Lloyd-Ricks-Watson Building
Box 9745
Mississippi State, MS 39762
Telephone: 662-325-7837
E-mail: ksworthzel@ais.msstate.edu

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: 170
- Writing: 172
- Mathematics: 169

OR

Computer-Based Test
- Reading: 316
- Writing: 318
- Mathematics: 314

The applicant for the doctoral degree must have a 3.00 GPA on a 4.00 scale in all prior graduate study.

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

A provisional student must receive a 3.00 GPA on the first 9 hours of graduate-level courses on the program of study taken at Mississippi State University in order to achieve regular status. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

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

A minimum of 30 hours of coursework in a planned program of study must be completed for the M.S. degree. A minimum of one-half the total credit hours on the program of study must be at the 8000 level. Students wishing to complete a thesis must take at least 6 credit hours of research/thesis (6 of these credit hours substitute for coursework hours) and an approved statistics course.

The required courses for the leadership concentration are: AIS 8803 or AIS 8703, AIS 8403, AIS 8503, AIS 8413, AIS 8801, and AIS 8263 or AIS 8203. The remaining courses in the leadership 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.

Ph.D. Program of Study/Completion Requirements

The minimum requirement for the Doctor of Philosophy (Ph.D.) degree is the completion of 90 semester hours of graduate credit on an approved program of study above the bachelor’s degree. Required courses for the Ph.D. include 30-36 hours of graduate credit in Agricultural and Extension Education (AIS 8593, AIS 8693, AIS 8243, AIS 8513, and AIS 8413 are required), 16 graduate credits in statistics, research, and evaluation (AIS 8803, AIS 8703, AIS 9583, EPY 8214, and EPY 9213 are required), 12-18 graduate credits in a minor or supporting area, 0-12 graduate elective credits, and 20 credit hours of dissertation research/dissertation. Students must pass a written and oral comprehensive examination in both the major and minor/supporting area. To be eligible for the preliminary/comprehensive examination, a graduate student must have a 3.00 GPA on all graduate courses taken after admission to the degree program. Students must also pass the final dissertation examination. The student’s graduate committee supervises the dissertation and examinations.

Academic Performance

Unsatisfactory performance may be defined as the failure to maintain a B average in graduate courses attempted after admission to the program, a grade of U, D, or F in any course, more than two grades below a B, failure of the preliminary/comprehensive examination, an unsatisfactory evaluation of a thesis or dissertation, failure of the research defense, or any other failure of a required component on one’s program of study. Any one of these or a combination of these may constitute the basis for the termination of a student’s graduate study in a degree program. Upon the recommendation of the major professor or the graduate coordinator, and the dean, a student whose academic work is unsatisfactory at any period during a given semester or term may be forced to withdraw from a graduate program. The College of Agriculture and Life Sciences defines “unsatisfactory” as making more than two grades below C. A student forced to withdraw can appeal to department faculty. If upheld by the faculty, then the student can submit a written appeal to the director. If upheld there, the student may appeal to the dean of the college.

Prerequisites and Core Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 6103</td>
<td>Objectives and Procedures of Programs in Agricultural Information Science and Education. 3 hours</td>
</tr>
<tr>
<td>AIS 6113</td>
<td>Methods of Teaching Agriscience (AIS 4203/6203 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>AIS 6203</td>
<td>Applications of Computer Technology to Agricultural Information Science and Education. 3 hours</td>
</tr>
<tr>
<td>AIS 6303</td>
<td>Applications of Information Technologies in Agricultural Learning Systems. 3 hours</td>
</tr>
<tr>
<td>AIS 6403</td>
<td>Development of Youth Programs. 3 hours</td>
</tr>
<tr>
<td>AIS 6503</td>
<td>International Agricultural Education. 3 hours</td>
</tr>
<tr>
<td>AIS 6990</td>
<td>Special Topics in Agricultural Information Science and Education. 1-9 hours</td>
</tr>
<tr>
<td>AIS 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
</tr>
<tr>
<td>AIS 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
</tr>
<tr>
<td>AIS 8203</td>
<td>Advanced Communication in Agricultural Information Science and Education. 3 hours</td>
</tr>
<tr>
<td>AIS 8243</td>
<td>Administration and Supervision in Agricultural Information Science and Education. 3 hours</td>
</tr>
<tr>
<td>AIS 8263</td>
<td>Public Relations in Agricultural Information Science and Education. 3 hours</td>
</tr>
<tr>
<td>AIS 8403</td>
<td>Directing Learning Experiences in Agricultural Information Science and Education. 3 hours</td>
</tr>
<tr>
<td>AIS 8413</td>
<td>Method of Planned Change in Agricultural and Extension Education. 3 hours</td>
</tr>
<tr>
<td>AIS 8503</td>
<td>Program Planning and Development in Agricultural Information Science and Education. 3 hours</td>
</tr>
<tr>
<td>AIS 8513</td>
<td>Volunteer Development in Agricultural and Extension Education. 3 hours</td>
</tr>
<tr>
<td>AIS 8523</td>
<td>Teaching Out-of-School Groups in Agricultural Information Science and Education. 3 hours</td>
</tr>
<tr>
<td>AIS 8593</td>
<td>Historical Foundations of Agriculture and Human Science. 3 hours</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), 6 hours</td>
</tr>
<tr>
<td>AIS 8693</td>
<td>Philosophical Foundations of Agriculture and Human Sciences. 3 hours</td>
</tr>
<tr>
<td>AIS 8703</td>
<td>Evaluation of Agricultural Information Science and Education Programs. 3 hours</td>
</tr>
<tr>
<td>AIS 8801</td>
<td>Graduate Professional Seminar in AIS. 1 hour</td>
</tr>
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</table>
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. Sheri Worthy, Coordinator, Graduate-Level Gerontology Certificate, 216 Lloyd-Ricks-Watson Building, Box 9745, Mississippi State, MS 39762, 662-325-0918. E-mail: sworthy@humansci.msstate.edu

Requirements include 13-15 credit hours.
HS 6403  Introduction to Gerontology. 3 hours
-----  Directed Individual Study/Readings Course in Gerontology. 1-3 hours

Choose three of the following:
ABE 6513  Dynamics of Aging. 3 hours
PSY 6983  Psychology of Aging. 3 hours
PSY 6863  Consumer Aspects of Aging. 3 hours
SO 6413  Aging and Retirement in American Society. 3 hours
HS 6813  Adult Development: The Middle Years. 3 hours
COE 6713  Issues in Aging. 3 hours

The School of Human Sciences offers both the Master of Science and the Doctor of Philosophy in Human Development and Family Studies (HDFS). The Doctor of Philosophy in HDFS will begin Fall 2013. Contact the Graduate Coordinator for more information regarding admission requirements and curriculum.

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.


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 pursuing 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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<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 (choose one 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
- EPI 8293 Cognitive Development
- HS 6823 Development and Administration 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
- COE 8913 Counseling Children
- EDE 9420 Research Practicum in Early Childhood Education
- EPI 8293 Cognitive Development
- HS 6823 Development and Administration of Child Service Programs
- EDX 6423 Teaching the Disadvantaged Child
- PSY 6713 Language & Thought
- EDX 6353 Assistive Technology in Special Education

**Gerontology Focus:**
- HS 6813 Trends in Gerontology*
- HS 6883 Risk, Resilience, and Preventive Interventions
- COE 8913 Counseling Children
- EDE 9420 Research Practicum in Early Childhood Education
- EPI 8293 Cognitive Development
- HS 6823 Development and Administration of Child Service Programs
- EDX 6423 Teaching the Disadvantaged Child
- PSY 6713 Language & Thought
- EDX 6353 Assistive Technology in Special Education

**Family Focus:**
- HS 8413 Issues in Family Studies*
- HS 8423 Development of Intimate Relationships
- COE 8303 Family Counseling Theory
- HS 6313 Family Resource
- HS 6333 Families, Legislation and Public Policy
- HS 6403 Introduction to Gerontology
- HS 6803 Parenting
- HS 6813 Adult Development: The Middle Years
- HS 6843 Family Interaction
- 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
- SO 6233 Families, Legislation and Public Policy
- HS 6863 Consumer Aspects of Aging
- HS 6323 Consumer Issues and Policy
- HS 6683 Current Housing Problems of Families
- HS 6693 Consumer Aspects of Aging
- HS 6343 Families, Legislation and Public Policy
- COE 6713 Issues in Aging
- COE 8813 Counseling Elderly Clients
- SO 6433 Sociology of Death and Dying
- COE 8913 Counseling Children
- EDE 9420 Research Practicum in Early Childhood Education
- EPI 8293 Cognitive Development
- HS 6823 Development and Administration of Child Service Programs
- EDX 6423 Teaching the Disadvantaged Child
- PSY 6713 Language & Thought
- EDX 6353 Assistive Technology in Special Education

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

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.

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
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. Sheri Worthy, Professor and Graduate Coordinator, by mail at PO Box 9745, Mississippi State, MS 39762-9745 or by e-mail at sworthy@humansci.msstate.edu.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 6313</td>
<td>Family Resource Management (Junior/senior writing or consent of instructor)</td>
<td>3 hours</td>
<td></td>
</tr>
<tr>
<td>HS 6323</td>
<td>Consumer Issues and Policy (HS 3303 or consent of instructor)</td>
<td>3 hours</td>
<td></td>
</tr>
<tr>
<td>HS 6333</td>
<td>Families, Legislation and Public Policy (Junior/senior writing or consent of instructor)</td>
<td>3 hours</td>
<td></td>
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<tr>
<td>HS 6343</td>
<td>Apparel Design II (HS 1533 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>HS 6353</td>
<td>Nutrition throughout the Life Cycle (BIO 4253/6253)</td>
<td>3 hours</td>
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<tr>
<td>HS 6403</td>
<td>Introduction to Gerontology (HS 1813 and junior/senior writing, or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>HS 6424</td>
<td>Teaching Methods in Agricultural and Human Sciences</td>
<td>4 hours</td>
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<tr>
<td>HS 6440</td>
<td>Workshop in Human Sciences</td>
<td>1-3 hours</td>
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<tr>
<td>HS 6513</td>
<td>Social-Psychological Aspects of Clothing (3 hours sociology or 3 hours psychology)</td>
<td>3 hours</td>
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<tr>
<td>HS 6583</td>
<td>Entrepreneurship for Human Sciences</td>
<td>3 hours</td>
<td></td>
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<tr>
<td>HS 6710</td>
<td>Study Tour</td>
<td>1-3 hours</td>
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<tr>
<td>HS 6733</td>
<td>Computer-Aided Design</td>
<td>3 hours</td>
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<tr>
<td>HS 6803</td>
<td>Parenting (HS 1813 and junior/senior writing class, or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>HS 6813</td>
<td>Adult Development: The Middle Years (HS 1813 and consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>HS 6823</td>
<td>Development and Administration of Child Service Programs</td>
<td>3 hours</td>
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<tr>
<td>HS 6843</td>
<td>Family Interaction (HS 4853 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>HS 6853</td>
<td>The Family: An Ecological Perspective (HS 1813 and junior/senior writing, or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>HS 6863</td>
<td>Consumer Aspects of Aging (HS 3303 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>HS 6873</td>
<td>Positive Youth Development (HS 1813 and junior/senior writing, or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>HS 6883</td>
<td>Risk, Resilience, and Preventive Interventions (HS 1813 and junior/senior writing, or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>HS 6990</td>
<td>Special Topics in Human Sciences</td>
<td>1-9 hours</td>
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<tr>
<td>HS 7000</td>
<td>Directed Individual Study in Human Sciences</td>
<td>1-6 hours</td>
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<tr>
<td>HS 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree.</td>
<td>3 hours</td>
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<tr>
<td>HS 8113</td>
<td>Trends in Infant and Child Development</td>
<td>3 hours</td>
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<tr>
<td>HS 8313</td>
<td>Contemporary Youth Issues</td>
<td>3 hours</td>
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<tr>
<td>HS 8413</td>
<td>Issues in Family Studies</td>
<td>3 hours</td>
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<tr>
<td>HS 8423</td>
<td>Development of Intimate Relationships</td>
<td>3 hours</td>
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<tr>
<td>HS 8813</td>
<td>Seminar in Human Development and Family Studies</td>
<td>3 hours</td>
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<tr>
<td>HS 8823</td>
<td>Advanced Theories of Human Development &amp; Family Relations</td>
<td>3 hours</td>
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<tr>
<td>HS 8833</td>
<td>Foundations of Human Development and Family Studies</td>
<td>3 hours</td>
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<tr>
<td>HS 8853</td>
<td>Current Issues in Human Development and Family Studies</td>
<td>3 hours</td>
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<tr>
<td>HS 8990</td>
<td>Special Topics in Human Sciences</td>
<td>1-9 hours</td>
<td></td>
</tr>
<tr>
<td>HS 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree.</td>
<td>1-9 hours</td>
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</tbody>
</table>

**Landscape Architecture**

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

The Master of Landscape Architecture Program provides an opportunity for students with undergraduate degrees in landscape architecture and related disciplines to refine and develop professional strengths in three areas of emphasis: watershed planning and management; landscape planning, management and design; and community-based initiatives. In addition, students from other disciplines may enter the Master of Landscape Architecture as a first professional degree. The educational objective of the program is to prepare individuals for management roles within the profession of landscape architecture.
Admission

The applicant to the M.L.A. program should have a minimum GPA of 2.80 on a 4.00 scale and a bachelor’s degree in a design or planning-related field such as landscape architecture, urban planning, environmental design, or architecture. A student with a bachelor’s degree in non-design fields may undertake the M.L.A. as a first professional degree and is eligible to apply but is required to undertake additional “leveling” coursework to ensure competency in the field. Submission of Graduate Record Examination (GRE) scores is not necessary if the applicant has attained a minimum of a 3.00 GPA in upper division major emphasis courses from an accredited university. An international student must have a TOEFL (Test of English as a Foreign Language) score of 600 PBT (250 CBT or 100 iBT) or an IELTS (International English Language Testing Systems) score of 7.5. The applicant’s submission should include a letter of interest which includes a written statement (no more than 1500 words) explaining why his or her interest in pursuing graduate studies in landscape architecture at Mississippi State University. Three letters of recommendation from individuals familiar with the applicant’s academic work, motivation, and character should accompany the application. The applicant should also submit a curriculum vitae.

Program of Study

The M.L.A. program offers a wide latitude of study for students and their faculty advisers to craft educational objectives within the course curriculum, graduate elective courses drawn from other departments at Mississippi State, and their thesis work. When undertaken as a first professional degree, the M.L.A. also requires a rigorous program of study designed to ensure candidates are competent in the profession of Landscape Architecture. Since a number of “leveling” courses are required in order to achieve a level of expertise, the M.L.A. as a first professional degree normally takes three years rather than two to complete.

All students in Landscape Architecture are required to have their own personal computer. Students should check with the department for equipment specifications prior to purchasing.

Academic Performance

A student is expected to achieve a grade of B or better in his or her coursework after admission to the program. The student’s grade record may contain a maximum of two C grades in courses at the graduate level. More than two C grades will result in dismissal from the program.

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

- LA 8512 Landscape Architecture Graduate Studio I. 2 hours
- LA 8711 Seminar in Watershed Planning and Management. 1 hour
- LA 8522 Landscape Architecture Studio II. 2 hours
- LA 8721 Seminar in Landscape Management. 1 hour
- LA 8532 Landscape Architecture Studio III. 2 hours
- LA 8731 Seminar in Community Based Planning. 1 hour
- LA 8741 Seminar in Landscape Architecture Thesis. 1 hour
- LA 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
- LA 8613 Research Methods in Landscape Architecture. 3 hours
- ST 8114 Statistical Methods. 4 hours

Electives—Elective courses are selected from across the University to adapt the degree program to the individual student’s professional interests and area of concentration.

Completion Requirements

A thesis is required for the granting of the Master of Landscape Architecture degree. The student must complete a minimum of 30 hours of graduate credit, 24 of which must be non-research course hours. Half of the non-research courses hours must be 8000 level and above. A thesis proposal will be developed for presentation to and approval by the graduate committee. The graduate committee is comprised of not fewer than three graduate faculty, at least two of whom must be from the Department of Landscape Architecture. The candidate’s graduate committee must approve the thesis and administer a final oral examination or thesis defense. The thesis must be submitted to the members of the committee for approval at least fourteen days prior to a scheduled defense.

Plant and Soil Sciences

Dr. J. Mike Phillips, Department Head
Dr. William L. Kingery, Graduate Coordinator
117 Dorman Hall
Box 9555
Mississippi State, MS 39762
Telephone: 662-325-2311
E-mail: wkingery@pss.msstate.edu

Graduate study offered in the Department of Plant and Soil Sciences leads to the Master of Science in Agriculture degree with concentrations in Agronomy,
Horticulture, or Weed Science and also to the Doctor of Philosophy degree in Agricultural Science with a concentration in Agronomy, Horticulture, or Weed Science. The department has an extensive research program which provides a diversity of problems for thesis and dissertation research under the supervision of experienced and highly trained scientists. The Department of Plant and Soil Science offers graduate programs in Plant Breeding and Genetics, Molecular Biology, Crop Modeling, Agronomy, Soil Science, Crop Physiology, Weed Science, Turfgrass Science, Remote Sensing, and Horticulture. Graduate programs are designed to develop skills in research techniques in reference to the individual needs of each student. This program is developed and administered by a departmental committee within the student’s area of specialization and may include courses in mathematics and statistics, biology, chemistry, biochemistry, remote sensing, etc., as well as agronomic, horticultural, and weed science courses. Graduate assistantships are provided, subject to availability of funds. An undergraduate grade average of B or better is required to be eligible for an assistantship. Requests for additional information should be addressed to Head of the department of Plant and Soil Sciences, Box 9555, Mississippi State, MS 39762.

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

Provisional Admission—A student who has not met the requirements stipulated by the University for admission to graduate study (GPA of 2.75) may be granted admission as a degree-seeking graduate student with provisional status. The student will be eligible for advancement to regular status after attaining a 3.00 GPA on the first 9 hours of graduate-level courses taken at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement). If a GPA of 3.00 is not attained, the provisional student may be dismissed from the graduate program.

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

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

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

Ph.D.—For the Ph.D. degree, the student must successfully complete a program of study as presented by the student’s major advisor and graduate committee. Twenty hours of research/dissertation (PSS 9000) and two seminars (PSS 811-8831) are required.

Academic Performance
Students in the M.S. and Ph.D. degree programs must maintain a 3.00 GPA after admission to the program. No grade of less than a C will be accepted for graduate credit. Two or more than two grades of C or below constitute grounds for dismissal from the program.

Prerequisite and Core Courses—As specified by the student’s major professor and graduate committee.

Completion Requirements
For the Ph.D. degree, original research, a preliminary examination, a dissertation, and an oral defense are required. The preliminary examination will be administered when coursework is completed.
Graduate Courses—Course prerequisites are noted in parentheses.

Crops:
PSS 6103  Forage and Pasture Crops. 3 hours
PSS 6113  Agricultural Crop Physiology. 3 hours
PSS 6123  Grain Crops. 3 hours
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 4213/6213 or permission of instructor). 3 hours
PSS 8163  Environmental Plant Physiology. 3 hours
PSS 8513  Advanced Plant Breeding (PSS 4503/6503 or equivalent) [Same as GNS 8113]. 3 hours
PSS 8543  Biometrical Genetics in Plant Breeding (PSS 4503/6503 and ST 8114) [Same as GNS 8143]. 3 hours
PSS 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

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

Program of Study

Horticulture Concentration Requirements

M.S.—See General Departmental Requirements.
M.S.-Non-thesis—A student in the M.S. non-thesis option program must successfully complete 30 credit hours of graduate level courses of which at least 15 must be courses numbered 8000 or above. Three credit hours of Directed Individual Study (PSS 7000) are required, in which the student must develop a research paper approved by the student’s graduate committee. An oral comprehensive exam is required.
Ph.D.—A minimum number of 30 hours of coursework is required. After two semesters, the student is required to take a qualifying examination. After completing coursework, an oral preliminary examination will be administered. Original research and a dissertation are also required, including a dissertation defense and final examination.

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

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 3503]. 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 and BIO 8503). 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 (BCH 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

Program of Study
Weed Science Concentration Requirements
M.S.—See General Departmental Requirements.
Ph.D.—The student must successfully complete a program of study as presented by the student’s major advisor and graduate committee. Twenty hours of Research/Thesis (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
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

Master of Science (M.S.)
The Poultry Science Department offers the Master of Science (M.S.) degree in Agriculture with a concentration in Poultry Science and the Doctor of Philosophy (Ph.D.) degree in Agricultural Sciences with a concentration in Poultry Science. The department also offers M.S. and Ph.D. programs with concentrations in the interdisciplinary programs of genetics and animal physiology. Admission requirements and detailed information for those interdisciplinary degree programs can be found listed separately under each of the individual programs.

Admission Criteria
Admission requirements for the M.S. in Agriculture degree with a concentration in Poultry Science are the same as those listed in the General Requirements of the Graduate School in the College of Agriculture and Life Sciences (CALS) except that any request for Graduate Record Examination (GRE) test scores is dependent upon the faculty member who will serve as the thesis director (major professor) but the GRE score is not a Department of Poultry Science requirement.

Provisional Admission—If a student does not fully meet the admission requirements of the program, it may be possible for that student to be provisionally admitted. If provisionally admitted, the student must attain a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University after admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.

Program of Study

Thesis Option—The program of study requires a minimum of 24 semester hours of coursework (at least one-half of which are at the 8000 level or above), a comprehensive examination and a thesis. The thesis director and graduate committee will determine specific course requirements for the student’s program. Before the end of the first semester of graduate work, the student must establish his or her graduate committee, complete the necessary paperwork, and gain the faculty members’ consent to participate on the committee. Once the student’s research plan has been established, the student is required to present his/her research plan to the faculty in the form of a departmental seminar.

Non-Thesis Option—The program of study requires a minimum of 30 semester hours of coursework with at least 15 hours at the 8000 level or above and a comprehensive examination. The major professor and graduate committee will determine specific course requirements for the student’s program. Before the end of the first semester of graduate work, the student must establish his/her graduate committee, complete the necessary paperwork and gain the faculty members’ consent to participate on the committee.

Academic Performance
Satisfactory academic performance standards are the same as for CALS except as follows: The student is allowed to make no more than two Cs in courses taken for graduate credit. The student will be recommended for dismissal if he or she receives a third C or any grade below a C. In addition, the student’s committee reserves the right to establish a “core” course or courses whereby any grade below a B in one of those courses is not accepted. The student will be recommended for dismissal if he or she receives a C or any grade below a C in a core course. The student must have a final GPA of 3.00 or higher after admission to the program to graduate.

Completion Requirements
Requirements for completion of the M.S. in Poultry Science are the same as those for CALS except that students in Poultry Science are required to participate in a limited teaching capacity, such as a guest lecturer, in one course during work on the degree. That limited teaching capacity will be determined by the student’s graduate committee when the student’s program of study is established.

To secure additional information, write to Dr. Chris McDaniel, Graduate Coordinator, Poultry Science Department, Box 9665, Mississippi State, MS 39762 or e-mail at cmcdaniel@poultry.msstate.edu.
Doctor of Philosophy (Ph.D.)
The Poultry Science Department offers the Ph.D. in Agricultural Sciences with a concentration in Poultry Science. The Ph.D. requires a minimum of three academic years beyond the B.S. degree with the number of hours varying as determined by the student and major professor. Course requirements may include BCH 6603, BCH 6613, ST 8114, and ST 8214. A minor is not required, but if selected an additional 12 hours of graduate credit is required. The preliminary examination must be attempted by the end of the fifth semester of the program. A Graduate Program of Study should be submitted and approved by the student’s graduate committee and Graduate Coordinator by the end of the first semester of graduate study. The graduate committee should be composed of at least five members if the student has a minor and four members if the student does not have a minor. Committee members include the major professor, who must be a full member of the graduate faculty, at least three other members, two of whom are from the student’s major field of interest, and a minor professor if the student has a minor field. Additional committee members may be included at the discretion of the major professor.

Admission Criteria
Admission requirements for the Ph.D. degree concentration in Poultry Science are the same as those listed in the General Requirements of the Graduate School in the College of Agriculture and Life Sciences (CALS) except that any request for Graduate Record Examination (GRE) test scores is dependent upon the faculty member who will serve as the dissertation director (major professor), but the GRE score is not a Department of Poultry Science requirement.

Provisional Admission—If a student does not fully meet the admission requirements of the program, it may be possible for that student to be provisionally admitted. If provisionally admitted, the student must attain a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 GPA is not attained, the student will be dismissed from the graduate program.

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

Academic Performance
Satisfactory academic performance standards are the same as those for CALS, except as follows: The student is allowed to make no more than two C grades in courses taken for graduate credit. The student will be recommended for dismissal if he/she receives a third C or any grade below a C. In addition, the student’s committee reserves the right to establish a “core” course or courses whereby any grade below a B in one of those courses is not accepted. The student will be recommended for dismissal if he/she receives a C or any grade below a C in a core course. To be eligible for the preliminary/comprehensive examination, a graduate student must maintain an overall B average in all graduate courses attempted. The student must have a final GPA of 3.00 or higher to graduate.

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.
- PO 6313 Management of Commercial Layers. 3 hours
- PO 6324 Avian Reproduction. 4 hours
- PO 6333 Broiler Production. 3 hours
- PO 6413 Poultry Nutrition. 3 hours
- PO 6423 Feed Manufacturing. 3 hours
- PO 6513 Poultry Processing [same as FNH 4513/6513]. 3 hours
- PO 6523 Advanced Poultry Processing (PO 4513/6513). 3 hours
- PO 6833 Avian Anatomy. 3 hours
- PO 6843 Avian Physiology (PO 4833/6833) [same as PHY 6843]. 3 hours
- PO 6990 Special Topics in Poultry. 1-9 hours
- PO 7000 Directed Individual Study. 1-6 hours
- PO 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
- PO 8123 Methods in Nutrition Research. 3 hours
- PO 8443 Avian Nutrition. 3 hours
- PO 8990 Special Topics in Poultry. 1-9 hours
- PO 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree
COLLEGE OF ARCHITECTURE, ART, AND DESIGN

Prof. James L. West, Dean
Dr. David C. Lewis, Associate Dean for Research and Academic Affairs
240 Giles Hall
Telephone: 662-325-2202
Fax: 662-325-8872
Mailing Address: 899 Collegeview Street, Box AQ
Mississippi State, MS 39762
E-mail: dlewis@caad.msstate.edu
Website: http://www.caad.msstate.edu/

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

School of Architecture
Certificate in Public Design

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

School of Architecture
Prof. Michael Berk, Director
Dr. David Lewis, Graduate Coordinator
240 Giles Hall
899 Collegeview St., Box AQ
Mississippi State, MS 39762
Telephone: 662-325-2202
E-mail: dlewis@caad.msstate.edu

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.

ARC 6813  Public Design Seminar I (Acceptance in Public Design Intern Program). 3 hours
ARC 6853  Public Practice and Projects I (Acceptance in Public Design Intern Program). 3 hours
ARC 6823  Public Design Seminar II (ARC 6813). 3 hours
ARC 6863  Public Practice and Projects II (ARC 6853). 3 hours
ARC 6833  Public Design Seminar III (ARC 6823). 3 hours
ARC 6873  Public Practice and Projects III (ARC 6863). 3 hours

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

Dr. Greg Dunaway, Interim Dean  
Dr. Walter Diehl, Associate Dean for Research & Graduate Studies  
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)  
[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 (T; NT) [1, 5]  
Concentrations:  
- Broadcast Meteorology (NT) [1]  
- Professional Meteorology (T) [1]  
- Geology (T) [1]  
- Geography (T) [1]  
- Geospatial Sciences (T/NT) [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 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. Walter Diehl, Interim 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 an 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 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 662-325-2013.

**Graduate Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AN 6123</td>
<td>Anthropological Theory</td>
<td>3</td>
</tr>
<tr>
<td>AN 6133</td>
<td>Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>AN 6143</td>
<td>Ethnographic Methods</td>
<td>3</td>
</tr>
<tr>
<td>AN 6163</td>
<td>Anthropology of International Development</td>
<td>3</td>
</tr>
<tr>
<td>AN 6173</td>
<td>Environment and Society [same as SO 6173]</td>
<td>3</td>
</tr>
<tr>
<td>AN 6303</td>
<td>Human Variation and Origins</td>
<td>3</td>
</tr>
<tr>
<td>AN 6313</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>AN 6403</td>
<td>Introduction to Linguistics [AN 1103 or consent of instructor]</td>
<td>3 hours</td>
</tr>
<tr>
<td>AN 6523</td>
<td>Public Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>AN 6623</td>
<td>Language and Culture [AN 1103 or consent of instructor] [same as EN 6403].</td>
<td>3 hours</td>
</tr>
<tr>
<td>AN 6633</td>
<td>Sociolinguistics [AN 1103 or consent of instructor] [same as EN/SO 6633].</td>
<td>3 hours</td>
</tr>
<tr>
<td>AN 6990</td>
<td>Special Topics in Anthropology</td>
<td>1-9</td>
</tr>
<tr>
<td>AN 7000</td>
<td>Directed Individual Study</td>
<td>1-3</td>
</tr>
<tr>
<td>AN 8011</td>
<td>Professionalization in Applied Anthropology</td>
<td>1</td>
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<tr>
<td>AN 8013</td>
<td>Quantitative Methods in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>AN 8103</td>
<td>Seminar in Applied Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>AN 8203</td>
<td>Readings and Research in Applied Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>AN 8215</td>
<td>Internship in Applied Anthropology</td>
<td>5</td>
</tr>
<tr>
<td>AN 8303</td>
<td>Bioarchaeology</td>
<td>3</td>
</tr>
<tr>
<td>AN 8513</td>
<td>Southeastern Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>AN 8523</td>
<td>Environmental Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>AN 8533</td>
<td>Readings in Archaeology: Theory</td>
<td>3</td>
</tr>
<tr>
<td>AN 8553</td>
<td>Readings in Archaeology: Applications</td>
<td>3</td>
</tr>
<tr>
<td>AN 8990</td>
<td>Special Topics in Anthropology</td>
<td>1-9</td>
</tr>
<tr>
<td>MEC 6403</td>
<td>Ancient Near East (Completion of any 1000-level history course) [Same as HI 6403 and REL 6403].</td>
<td>3 hours</td>
</tr>
</tbody>
</table>
Biological Sciences

Dr. Nancy Reichert, Department Head and
General Biology Coordinator

Dr. Gary Ervin, Graduate 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. 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
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 the undergraduate portion of the program. No additional dual counting of courses will occur after the student opts out of the combined program.

Students will receive the Bachelor’s degree once the requirements for the Bachelor’s degree are met. Students will be required to complete all of the requirements for both the Bachelor’s and Master’s degrees in order to receive both degrees, and those requirements will be identical to the requirements for students enrolled in traditional B.S. and M.S. programs. Students will be classified as undergraduates until they fulfill all the requirements for the undergraduate degree. At that time, they will be classified as graduate students and will be subject to all the guidelines pertaining to the M.S. in Biological Sciences degree. Students admitted to this program should read and understand guidelines in the Department of Biological Sciences Graduate Student Handbook before registering for any courses for graduate credit.

Requirements for the Master of Science in General Biology (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>
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<tbody>
<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>
</tr>
<tr>
<td>BIO 6114</td>
<td>Cellular Physiology (7 hours of biological sciences and two semesters of organic chemistry) [same as PHY 4114/6114]. 4 hours</td>
</tr>
<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>
</tr>
<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 (BIO 4203). 3 hours</td>
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<tr>
<td>BIO 6214</td>
<td>General Plant Physiology (BIO 2113 and CH 1213). 4 hours</td>
</tr>
<tr>
<td>BIO 6224</td>
<td>Aquatic Botany (BIO 2113 and one of BIO 3104, BIO 4213, WFA 3133; or graduate standing; or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>BIO 6303</td>
<td>Bioinstrumentation (BIO4304/6304). 3 hours</td>
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<tr>
<td>BIO 6304</td>
<td>Quantitative Methods. 4 hours</td>
</tr>
<tr>
<td>BIO 6314</td>
<td>Quantitative Methods II (BIO 4304/6304). 4 hours</td>
</tr>
<tr>
<td>BIO 6324</td>
<td>Microbiology and Ecology of Soil (BIO 3304) [Same as PSS 4314/6314]. 4 hours</td>
</tr>
<tr>
<td>BIO 6404</td>
<td>Environmental Microbiology (BIO 3304). 4 hours</td>
</tr>
<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>
</tr>
<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>
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<tr>
<td>BIO 6504</td>
<td>Comparative Vertebrate Embryology (BIO 1134 and BIO 1144). 4 hours</td>
</tr>
<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>
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<tr>
<td>BIO 6990</td>
<td>Special Topics in Biology. 1-9 hours</td>
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<tr>
<td>BIO 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>
</tr>
<tr>
<td>BIO 8011</td>
<td>Seminar I. 1 hour</td>
</tr>
<tr>
<td>BIO 8013</td>
<td>Scientific Writing for Biological Scientists. 3 hours</td>
</tr>
<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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 6013</td>
<td>Genetics &amp; Molecular Biology (Consent of instructor). 3 hours</td>
</tr>
<tr>
<td>BIO 6023</td>
<td>Principles of Evolutionary Biology (Consent of instructor). 3 hours</td>
</tr>
<tr>
<td>BIO 6033</td>
<td>Fundamentals of Biotechnology (BIO 6013 and BIO 8033, or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>BIO 6043</td>
<td>Developmental &amp; Reproductive Biology (BIO 6013 and BIO 8033 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>BIO 8023</td>
<td>Modern Microbiology (Consent of instructor). 3 hours</td>
</tr>
</tbody>
</table>
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

**Chemistry**

Dr. Ed Lewis, Department Head
Dr. Stephen Foster, Graduate Coordinator
1115 Hand Chemical Laboratory
Box 9573
Mississippi State, MS 39762
Telephone: 662-325-3584
E-mail: grad@chemistry.msstate.edu

The Department of Chemistry provides a flexible and dynamic environment in which to pursue a Master of Science or Doctor of Philosophy degree in chemistry. Students have the opportunity to work with faculty with interests in Biochemistry, Environmental Chemistry, and Materials Science, as well as in Analytical, Inorganic, Organic, and Physical Chemistry. The faculty has active research programs in Synthesis (inorganic, organic, polymer and supramolecular synthesis), Surface Chemistry (catalysis and corrosion studies), Spectroscopy (IR laser spectroscopy and bioanalytical applications for Raman and Surface Enhanced Raman methods), Structural Biology (using NMR and computational methods), and Biophysical studies (including cancer drug discovery). Environmental research programs focus on the development of novel miniature chemical sensors and on pesticide and herbicide transport while computational chemists are developing *Ab initio* and semiempirical methods to study complex biological systems and important chemical processes. The research is supported by an array of in-house equipment. NMR spectrometers include 600-MHz and 300-MHz instruments. An EPR spectrometer and single crystal and powder X-ray diffractometers with CCD detection are maintained in the department. Students also have access to a wide range of instruments including UV-vis, FT-IR, and UV/Vis/near-IR spectrophotometers, as well as mass spectrometers, including GC-MS, LC-MS, and quadrupole ion trap instruments. Individual research labs maintain an array of instruments including: lasers, an atomic force microscope, a Laser Raman microscope, ITC and DSC microcalorimeters, a stopped-flow UV/vis system, a spectrofluorimeter, a Circular Dichroism spectropolarimeter, a scanning electrochemical microscope, and numerous GC’s and HPLC’s. Research and teaching assistantships are available. The department also offers five GAANN (Graduate Assistance in Areas of National Need) fellowships to qualified U.S. residents. For more information write to the Graduate Coordinator, Department of Chemistry, Box 9573, Mississippi State, MS 39762; send electronic mail to grad@chemistry.msstate.edu, or visit the Website at http://www.msstate.edu/dept/chemistry

**Admission Criteria**

Although not required, the admissions committee encourages students to take the GRE general test. Foreign students may be admitted with a TOEFL (Test of English as a Foreign Language) score of 477 PBT (153 CBT or 53 iBT) or an IELTS (International English Language Testing Systems) score of 4.5 (University minimum), but a TOEFL score of at least 550 PBT (213 CBT or 79 iBT) or an IELTS score of 6.5 is required for a student to be considered for financial aid.

**Provisional Admission**—Provisional admission is granted to a student with some deficiency in her/his chemistry background. Students admitted to provisional status are eligible for advancement to regular status after receiving a 3.00 GPA on the first 9 hours of regular graduate-level courses taken after admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. The specific courses used to overcome these deficiencies are chosen by the department’s graduate committee on a case-by-case basis.

**Program of Study/Completion Requirements**

For the Master of Science degree, the department requires 30 hours of credit (6 hours of research, 23 hours of coursework and one seminar credit). For the Ph.D., the department requires one core course in four of the five major areas of chemistry (analytical, biochemistry, inorganic, organic, physical) and three seminars. In addition, each student must pass a series of cumulative exams and take additional coursework as determined in consultation with the doctoral committee. Each graduate student must complete a research project, write a thesis or dissertation, and defend results before a faculty committee.

**Academic Performance**

All entering students take placement exams to demonstrate competency in the four of the five major areas of chemistry. Competency is demonstrated by scoring at or above the 50th percentile level on each exam. If the student fails to show this level of
knowledge, he or she is required to take advanced undergraduate classes in the failing area(s) and achieve a B or better in each course. If the student does not achieve a B in the remedial class, he or she can retake the placement exam. Failure to score above the 50th percentile on a second attempt will result in dismissal from the program.

An overall GPA of 3.00/4.00 on all graduate courses taken after being admitted to the program is required by the University to remain in good standing. The Department of Chemistry requires a B average on all chemistry courses above the 6000 level. If a student fails to meet either criterion, he or she is placed on probation. If the student does not correct the deficiency within one semester, the student may be dismissed from the program.

Core Courses

### Analytical

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

### Organic

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CH 8553</td>
<td>Theoretical Organic</td>
</tr>
<tr>
<td>CH 8513</td>
<td>Synthetic Organic</td>
</tr>
</tbody>
</table>

### Inorganic

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CH 8203</td>
<td>Advanced Inorganic Chemistry II</td>
</tr>
<tr>
<td>CH 8990</td>
<td>Special topic: Organometallic Chemistry</td>
</tr>
</tbody>
</table>

### Physical

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 8423</td>
<td>Molecular Structure</td>
</tr>
<tr>
<td>CH 8623</td>
<td>Physical Biochemistry</td>
</tr>
</tbody>
</table>

Graduate Courses—Course prerequisites are noted in parentheses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CH 6212</td>
<td>Advanced Inorganic Laboratory (prior credit or concurrent enrollment in CH 4213/6213). 2 hours</td>
</tr>
<tr>
<td>CH 6213</td>
<td>Advanced Inorganic Chemistry I (Consent of the instructor and CH 4413/6413). 3 hours</td>
</tr>
<tr>
<td>CH 6303</td>
<td>Environmental Chemistry I (CH 4523/6523). 3 hours</td>
</tr>
<tr>
<td>CH 6351</td>
<td>Analytical Chemistry Laboratory II (concurrent registration in CH 4353/6353). 1 hour</td>
</tr>
<tr>
<td>CH 6353</td>
<td>Analytical Chemistry II (CH 2313 or CH 2314). 3 hours</td>
</tr>
<tr>
<td>CH 6411</td>
<td>Physical Chemistry Laboratory I (CH 4413/6413). 1 hour</td>
</tr>
<tr>
<td>CH 6413</td>
<td>Physical Chemistry I (CH 1223, PH 2213 or PH 1113 and MA 1723). 3 hours</td>
</tr>
<tr>
<td>CH 6421</td>
<td>Physical Chemistry Laboratory II (CH 4413/6413). 1 hour</td>
</tr>
<tr>
<td>CH 6423</td>
<td>Physical Chemistry II (CH 1223, PH 2213 or PH 1113, MA 1723). 3 hours</td>
</tr>
<tr>
<td>CH 6511</td>
<td>Organic Chemistry Laboratory I (CH 2221 and CH 2223). 1 hour</td>
</tr>
<tr>
<td>CH 6513</td>
<td>Organic Chemistry I (CH 2223). 3 hours</td>
</tr>
<tr>
<td>CH 6521</td>
<td>Organic Chemistry Laboratory II (CH 4511/6511 and CH 4513/6513). 1 hour</td>
</tr>
<tr>
<td>CH 6523</td>
<td>Organic Chemistry II (CH 4513). 3 hours</td>
</tr>
<tr>
<td>CH 6533</td>
<td>Intermediate Organic Chemistry (CH 4523/6523). 3 hours</td>
</tr>
<tr>
<td>CH 6990</td>
<td>Special Topics in Chemistry. 1-9 hours</td>
</tr>
<tr>
<td>CH 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
</tr>
<tr>
<td>CH 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
</tr>
<tr>
<td>CH 8111</td>
<td>Professional Chemistry. 1 hour</td>
</tr>
<tr>
<td>CH 8711-8741</td>
<td>Seminar. 1-4 hours</td>
</tr>
<tr>
<td>CH 8990</td>
<td>Special Topics in Chemistry. 1-9 hours</td>
</tr>
<tr>
<td>CH 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
</tr>
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</table>

**Analytical Chemistry:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 8313</td>
<td>Advanced Analytical Chemistry (Consent of instructor). 3 hours</td>
</tr>
<tr>
<td>CH 8333</td>
<td>Advanced Instrumental Analysis (CH 4353/6353 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>CH 8343</td>
<td>Electroanalytical Chemistry (Consent of instructor). 3 hours</td>
</tr>
</tbody>
</table>

**Biochemistry:**

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

**Inorganic Chemistry:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 8203</td>
<td>Advanced Inorganic Chemistry II (CH 4213/6213, and CH 4423/6423). 3 hours</td>
</tr>
</tbody>
</table>

**Organic Chemistry:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP 8123</td>
<td>Advanced Lignocellulosic Chemistry. 3 hours</td>
</tr>
<tr>
<td>CH 8513</td>
<td>Synthetic Organic Chemistry. 3 hours</td>
</tr>
<tr>
<td>CH 8553</td>
<td>Theoretical Organic Chemistry. 3 hours</td>
</tr>
</tbody>
</table>

**Physical Chemistry:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 8423</td>
<td>Molecular Structure (CH 4423/6423 and MA 2913). 3 hours</td>
</tr>
<tr>
<td>CH 8473</td>
<td>Quantum Chemistry I. (PH 4723, MA 3353, MA 4153). 3 hours</td>
</tr>
</tbody>
</table>
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.

#### French:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLF 6053</td>
<td>19th Century Studies: Baudelaire Seminar (FLF 3124 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 6073</td>
<td>French Drama of the 20th Century (FLF 3523 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 6083</td>
<td>Survey of French Lyric Poetry (FLF 3513 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 6093</td>
<td>French Novel and Short Story of the 19th Century (FLF 3523 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 6103</td>
<td>French Novel and Short Story of the 20th Century (FLF 3523 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 6143</td>
<td>17th-Century French Literature (FLF 3513)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 6153</td>
<td>French Classicism (FLF 3513 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 6173</td>
<td>Introduction to Francophone Cinema (FLF 3124 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 6193</td>
<td>18th Century French Literature (FLF 2143 or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 6213</td>
<td>Historical Grammar (FLF 3114 and FLF 3124 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 6223</td>
<td>French Novel Before 1945 (FLF 2143 or the equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 6233</td>
<td>Modern French Poetry (FLF 2143 or the equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 6273</td>
<td>The Human Condition (FLF 2143 or the equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 6323</td>
<td>Studies in the 20th Century: Le Clézio Seminar (FLF 2143 or the equivalent)</td>
<td>3 hours</td>
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<tr>
<td>FLF 6333</td>
<td>19th Century Studies: Decadents, Dandies, and Bohemians (FLF 3124 or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 6990</td>
<td>Special Topics in French</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>FLF 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
</tr>
<tr>
<td>FLF 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 8063</td>
<td>Seminar in French Drama of the 19th Century</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 8073</td>
<td>Seminar in French Drama of the 20th Century</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 8093</td>
<td>Seminar in the French Novel of the 19th Century</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 8103</td>
<td>Seminar in the French Novel of the 20th Century</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 8113</td>
<td>Seminar in French Classical and Neo-Classical Comedy</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLF 8123</td>
<td>Seminar in the French Novel and Short Story of the Renaissance and Classical Period</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

#### German:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLG 6143</td>
<td>Verwandlungen (FLG 2143 or equivalent)</td>
<td>3 hours</td>
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<tr>
<td>FLG 6153</td>
<td>History of the German Language (FLG 3124)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLG 6303</td>
<td>German Film (FLG 2143 or equivalent)</td>
<td>3 hours</td>
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<tr>
<td>FLG 6353</td>
<td>German Novella (FLG 2143 or equivalent)</td>
<td>3 hours</td>
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<tr>
<td>FLG 6463</td>
<td>German Drama of the 20th Century (FLG 3523)</td>
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<tr>
<td>FLG 6493</td>
<td>Mysteries in Literature &amp; Film (FLG 2143 or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLG 6503</td>
<td>German Literature to 1750 (FLG 2143 or equivalent)</td>
<td>3 hours</td>
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<tr>
<td>FLG 6523</td>
<td>German Literature 1750 to Present (FLG 2143 or equivalent)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLG 6990</td>
<td>Special Topics in German</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>FLG 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
</tr>
<tr>
<td>FLG 8000</td>
<td>Thesis Research/Thesis</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLG 8443</td>
<td>18th Century German Drama (Graduate standing)</td>
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<tr>
<td>FLG 8483</td>
<td>20th Century Short Story (Graduate standing)</td>
<td>3 hours</td>
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<tr>
<td>FLG 8990</td>
<td>Special Topics in German</td>
<td>1-9 hours</td>
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#### Greek:

<table>
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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>FLH 6990</td>
<td>Special Topics in Greek</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>FLH 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
</tr>
<tr>
<td>FLH 8990</td>
<td>Special Topics in Greek</td>
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#### Japanese:

<table>
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<th>Course Title</th>
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<tbody>
<tr>
<td>FLJ 6990</td>
<td>Special Topics in Japanese</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>FLJ 8990</td>
<td>Special Topics in Japanese</td>
<td>1-9 hours</td>
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</table>

#### Latin:

<table>
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<th>Course Title</th>
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<tbody>
<tr>
<td>FLF 6990</td>
<td>Special Topics in Latin</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>FLF 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
</tr>
<tr>
<td>FLF 8990</td>
<td>Special Topics in Latin</td>
<td>1-9 hours</td>
</tr>
</tbody>
</table>

#### Russian:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLR 6990</td>
<td>Special Topics in Russian</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>FLR 8990</td>
<td>Special Topics in Russian</td>
<td>1-9 hours</td>
</tr>
</tbody>
</table>

#### Spanish:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLS 6213</td>
<td>Modern Spanish Women Writers (FLS 3113, FLS 3223 or equivalent, or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLS 6223</td>
<td>Spanish Novel of the Golden Age (FLS 3513)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLS 6243</td>
<td>Modern Spanish Essay (FLS 3113, 3233 or the equivalent, or consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>FLS 6273</td>
<td>Modern Spanish Drama (FLS 3113, 3233 or the equivalent, or consent of instructor)</td>
<td>3 hours</td>
</tr>
</tbody>
</table>
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 3233 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

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 8990 Special Topics in Communication. 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. At the present, there is no graduate program in communication. For additional information, write to the Department of Communication, Box PF, Mississippi State, MS 39762.

Graduate Courses—Course prerequisites are noted in parentheses.
CO 6053 Internship in Communication (CO 2323 or CO 2333 for Radio/TV students or communication majors only). 3 hours

CO 6203 Nonverbal Communication (CO 1223 or PSY 1013). 3 hours
CO 6213 Political Communication. 3 hours
CO 6223 Advanced Communication Theory (CO 1223). 3 hours
CO 6243 Rhetorical Theory (CO 1223). 3 hours
CO 6253 Elements of Persuasion (CO 1223). 3 hours
CO 6273 Intercultural Communication (CO 1223). 3 hours
CO 6313 Mass Media Law. 3 hours
CO 6323 Mass Media and Society. 3 hours
CO 6373 Practicum in Television News (CO 2333, 15 additional hours communication courses and consent of instructor). 3 hours
CO 6403 Journalism Ethics (CO 2413). 3 hours
CO 6433 Television Criticism (Junior standing or higher). 3 hours
CO 6504 History of the Theatre. 4 hours
CO 6524 Directing (CO 2524). 4 hours
CO 6533 Advanced Acting (CO 2503). 3 hours
CO 6573 Theatre Management. 3 hours
CO 6583 Playwriting (CO 1503). 3 hours
CO 6803 Research in Public Relations and Advertising (CO 3853 or MKT 3013 or consent of instructor). 3 hours
CO 6813 Public Relations in Organizations (CO 3813 and CO 3863). 3 hours
CO 6990 Special Topics in Communications. 1-9 hours
CO 7000 Directed Individual Study. 1-6 hours
CO 8213 Seminar in Communication Theory (CO 4223/6223). 3 hours
CO 8253 Seminar in Persuasion (CO 4253/6253). 3 hours
CO 8990 Special Topics in Communication. 1-9 hours

English
Dr. Richard Raymond, Department Head
Dr. Lara Dodds, Graduate Coordinator
100 Howell Hall
Box E
Mississippi State, MS 39762
Telephone: 662-325-3644
E-mail: ld214@msstate.edu

Graduate Study is offered in the Department of English leading to the Master of Arts degree. Teaching assistantships are available.

Admission Criteria
Prerequisites for admission into the graduate program include all the general requirements of the Office of 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 a S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement). If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.

Program of Study/Completion Requirements
The Mississippi State University English Department offers two options in the M.A. program: the traditional curriculum, calling for 24 hours of coursework plus thesis, and a non-thesis option, calling for 33 hours of coursework. Students may pursue concentrations in Creative Writing or the Teaching of English as a Second Language. External minors are also available.

General Program Requirements
• A seminar in bibliography and research methods, offered each fall, is required of every student.
• All students must display a reading knowledge of a foreign language, usually by having completed four undergraduate semesters in that language with a B average or higher.
• All students, regardless of their fields of concentration, must take a comprehensive examination in British and American literature. The exam must be taken at the beginning of the student’s fourth full semester.

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 BA/BS or higher degree.
• Current employees of Mississippi State University
• People currently employed as educators in Mississippi at any level
• People who have earned a degree at MSU within the previous five years
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
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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>EN 6013</td>
<td>Internship in Compositional Theory and the Teaching of College Writing. 3 hours</td>
</tr>
<tr>
<td>EN 6223</td>
<td>Principles of Legal Writing (Completion of EN 1103 and EN 1113 or their equivalent and Junior standing, or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>EN 6233</td>
<td>Composition Pedagogy. (EN 1113 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>EN 6243</td>
<td>Writing Center Tutor Training (B or better in EN 1113 and consent of instructor). 3 hours</td>
</tr>
<tr>
<td>EN 6303</td>
<td>Craft of Poetry (EN 3303 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>EN 6313</td>
<td>Craft of Fiction (EN 3903 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>EN 6323</td>
<td>Literary Criticism from Plato to the Present. 3 hours</td>
</tr>
<tr>
<td>EN 6333</td>
<td>Southern Literature. 3 hours</td>
</tr>
<tr>
<td>EN 6343</td>
<td>African American Literature (completion of English requirements in the student’s major). 3 hours</td>
</tr>
<tr>
<td>EN 6353</td>
<td>Critical Theory Since 1900. 3 hours</td>
</tr>
<tr>
<td>EN 6403</td>
<td>Introduction to Linguistics (same as AN 4403/6403). 3 hours</td>
</tr>
<tr>
<td>EN 6413</td>
<td>History of the English Language (Completion of twelve hours of English). 3 hours</td>
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<tr>
<td>EN 6433</td>
<td>Teaching of English as a Second Language (EN 4403 or EN 3423 or consent of instructor). 3 hours</td>
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<tr>
<td>EN 6443</td>
<td>English Syntax (EN 3423 or consent of instructor). 3 hours</td>
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<tr>
<td>EN 6453</td>
<td>Methods in TESOL (EN 4403/6403 or permission of instructor). 3 hours</td>
</tr>
<tr>
<td>EN 6463</td>
<td>Studies in Second Language Acquisition (EN 4403/6403 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>EN 6493</td>
<td>TESOL Practicum (EN 4403/6403). 3 hours</td>
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<tr>
<td>EN 6503</td>
<td>Shakespeare. 3 hours</td>
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<td>EN 6513</td>
<td>Shakespeare. 3 hours</td>
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<tr>
<td>EN 6523</td>
<td>Chaucer. 3 hours</td>
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<tr>
<td>EN 6533</td>
<td>Milton. 3 hours</td>
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<tr>
<td>EN 6623</td>
<td>Language and Culture (EN 4403/6603 or consent of instructor). 3 hours</td>
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<tr>
<td>EN 6633</td>
<td>Sociolinguistics (EN 4403 or consent of instructor). 3 hours</td>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>EN 6643</td>
<td>The Eighteenth-Century British Novel (Completion of 12 hours of English). 3 hours</td>
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<tr>
<td>EN 6653</td>
<td>The Nineteenth-Century British Novel. 3 hours</td>
</tr>
<tr>
<td>EN 6663</td>
<td>The British and Irish Novel Since 1900 (completion of English Requirements in the student’s major). 3 hours</td>
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<tr>
<td>EN 6673</td>
<td>British Literature and Culture from 1600-1700 (Completion of English requirements in student’s major). 3 hours</td>
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<tr>
<td>EN 6703</td>
<td>English Literature of the Sixteenth Century (Completion of English requirements in the student’s major). 3 hours</td>
</tr>
<tr>
<td>EN 6713</td>
<td>English Literature of the Seventeenth Century (Completion of 12 hours of English). 3 hours</td>
</tr>
<tr>
<td>EN 6723</td>
<td>British Literature and Culture from 1600-1700 (Completion of English requirements in the student’s major). 3 hours</td>
</tr>
<tr>
<td>EN 6733</td>
<td>British Literature and Culture of the Eighteenth-Century (Completion of the English requirements in the student’s major). 3 hours</td>
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<tr>
<td>EN 6803</td>
<td>Types of Drama Since 1900. 3 hours</td>
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<tr>
<td>EN 6813</td>
<td>The World Novel Since 1900 (completion of English requirements in the student’s major). 3 hours</td>
</tr>
<tr>
<td>EN 6823</td>
<td>Poetry Since 1900. 3 hours</td>
</tr>
<tr>
<td>EN 6833</td>
<td>The American Short Story (Completion of English requirements in the student’s major). 3 hours</td>
</tr>
<tr>
<td>EN 6863</td>
<td>The Romantic Poets and Prose Writers. 3 hours</td>
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<tr>
<td>EN 6883</td>
<td>Victorian Poets and Prose Writers. 3 hours</td>
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<tr>
<td>EN 6903</td>
<td>American Literature: 1800-1860. 3 hours</td>
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<tr>
<td>EN 6913</td>
<td>American Literature: 1860-1900. 3 hours</td>
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<tr>
<td>EN 6923</td>
<td>The American Novel Since 1900. 3 hours</td>
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<tr>
<td>EN 6933</td>
<td>Survey of Contemporary Literature. 3 hours</td>
</tr>
<tr>
<td>EN 6943</td>
<td>Form and Theory of Fiction. 3 hours</td>
</tr>
<tr>
<td>EN 6953</td>
<td>Form and Theory of Poetry. 3 hours</td>
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<tr>
<td>EN 6990</td>
<td>Special Topics in English. 1-9 hours</td>
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<tr>
<td>EN 7000</td>
<td>Directed Individual Study. 1-3 hours</td>
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<tr>
<td>EN 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>EN 8103</td>
<td>Seminar in Graduate Research Methods. 3 hours</td>
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<tr>
<td>EN 8333</td>
<td>Studies in Southern Literature. 3 hours</td>
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<tr>
<td>EN 8513</td>
<td>Studies in English Literature to 1485. 3 hours</td>
</tr>
<tr>
<td>EN 8523</td>
<td>Studies in English Literature 1485-1660. 3 hours</td>
</tr>
</tbody>
</table>
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.

The approved curriculum for the Ph.D. includes the following courses.

**Major Core:**
- GG 9813 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.

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**Geosciences**

**Dr. Darrel W. Schmitz, Department Head**

**Dr. Mike Brown, Graduate Coordinator**

Hilbun 109
Box 5448
Mississippi State, MS 39762
Telephone: 662-325-3915

On-Campus Programs
Email: tina@geosci.msstate.edu
Distance Learning Programs
E-mail: mary@geosci.msstate.edu
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 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.

*Note: A split-level course completed at the undergraduate level cannot be repeated on the graduate level for use on the program of study.*

- GR 6402 Weather Analysis I
- GR 6412 Weather Analysis II
- GR 6422 Weather Forecasting I
- GR 6432 Weather Forecasting II
- GR 6502 Practicum in Broadcast Meteorology I
- GR 6512 Practicum in Broadcast Meteorology II
- GR 6522 Practicum in Broadcast Meteorology III
- GR 6532 Practicum in Broadcast Meteorology IV
- GR 6613 Applied Climatology
- GR 6623 Physical Meteorology
- GR 6733 Synoptic Meteorology
- GR 6753 Satellite & Radar Meteorology
- GR 6823 Dynamic Meteorology I
- GR 6963 Mesoscale Meteorology
- GR 6983 Geography of North America
- GR 6813 Natural Hazards

**MS Geosciences, Concentration in Broadcast Meteorology (Thesis)**

Departmental requirements for thesis track and 21 additional credit hours. At least 9 credit hours should be selected from the following courses.

- GR 6422 Weather Forecasting I
- GR 6432 Weather Forecasting II
- GR 6613 Applied Climatology
- GR 6623 Physical Meteorology
- GR 6733 Synoptic Meteorology
- GR 6753 Satellite & Radar meteorology
- GR 6823 Dynamic Meteorology I
- GR 6933 Dynamic meteorology II
- GR 6963 Mesoscale Meteorology
- GR 6813 Natural Hazards

**MS Geosciences, Concentration in Geology (Thesis)**

Departmental requirements for thesis track and 21 additional credit hours. At least 9 credit hours should be selected from the following courses.

- GG 6033 Resources and the Environment
- GG 6063 Development of Fossil Fuel Resources
- GG 6114 Mineralogy
- GG 6123 Petrology
- GG 6133 Principles of Paleoeocology
- GG 6153 Engineering Geology
- GG 6201 Practicum in Paleontology
- GG 6203 Principles of Paleontology
- GG 6233 Applied Geophysics
- GG 6304 Principles of Sedimentary Deposits I
- GG 6333 Geowriting
- GG 6403 Gulf Coast Stratigraphy
- GG 6413 Structural Geology
- GG 6433 Subsurface Methods
- GG 6443 Principles of Sedimentary Deposits II
- GG 6503 Geomorphology
- GG 6523 Coastal Environments
- GG 6613 Physical Hydrogeology
- GG 6623 Chemical Hydrogeology
- GG 8223 Advanced Paleontology
- GG 8443 Advanced Structural Geology
- 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

**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 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.

*Note: A split-level course completed at the undergraduate level cannot be repeated on the graduate level for use on the program of study.*

- GR 6402 Weather Analysis I
- GR 6412 Weather Analysis II
- GR 6422 Weather Forecasting I
- GR 6432 Weather Forecasting II
- GR 6502 Practicum in Broadcast Meteorology I
- GR 6512 Practicum in Broadcast Meteorology II
- GR 6522 Practicum in Broadcast Meteorology III
- GR 6532 Practicum in Broadcast Meteorology IV
- GR 6613 Applied Climatology
- GR 6623 Physical Meteorology
- GR 6733 Synoptic Meteorology
- GR 6753 Satellite & Radar Meteorology
- GR 6823 Dynamic Meteorology I
- GR 6963 Mesoscale Meteorology
- GR 6983 Geography of North America
- GR 6813 Natural Hazards

**MS Geosciences, Concentration in Broadcast Meteorology (Thesis)**

Departmental requirements for thesis track and 21 additional credit hours. At least 9 credit hours should be selected from the following courses.

- GR 6422 Weather Forecasting I
- GR 6432 Weather Forecasting II
- GR 6613 Applied Climatology
- GR 6623 Physical Meteorology
- GR 6733 Synoptic Meteorology
- GR 6753 Satellite & Radar meteorology
- GR 6823 Dynamic Meteorology I
- GR 6933 Dynamic meteorology II
- GR 6963 Mesoscale Meteorology
- GR 6813 Natural Hazards

**MS Geosciences, Concentration in Geology (Thesis)**

Departmental requirements for thesis track and 21 additional credit hours. At least 9 credit hours should be selected from the following courses.

- GG 6033 Resources and the Environment
- GG 6063 Development of Fossil Fuel Resources
- GG 6114 Mineralogy
- GG 6123 Petrology
- GG 6133 Principles of Paleoeocology
- GG 6153 Engineering Geology
- GG 6201 Practicum in Paleontology
- GG 6203 Principles of Paleontology
- GG 6233 Applied Geophysics
- GG 6304 Principles of Sedimentary Deposits I
- GG 6333 Geowriting
- GG 6403 Gulf Coast Stratigraphy
- GG 6413 Structural Geology
- GG 6433 Subsurface Methods
- GG 6443 Principles of Sedimentary Deposits II
- GG 6503 Geomorphology
- GG 6523 Coastal Environments
- GG 6613 Physical Hydrogeology
- GG 6623 Chemical Hydrogeology
- GG 8223 Advanced Paleontology
- GG 8443 Advanced Structural Geology
- 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
- GG 6613 Applied Climatology
- GR 6813 Natural Hazards
- GG 6613 Water Resources

**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 6113 Mineralogy (GG 1113 and CH 1223 or equivalents). 4 hours
- GG 6123 Petrology (GG 4114/6114 or equivalent). 3 hours
- GG 6133 Principles of Paleocology (GG 1123 or equivalent or consent of instructor). 3 hours
- GG 6153 Engineering Geology (GG 1113 or equivalent). 3 hours
- GG 6201 Practicum in Paleontology (GG 1123 or equivalent). 1 hour
- GG 6203 Principles of Paleobiology (GG 1123 or equivalent). 3 hours
- GG 6233 Applied Geophysics (Consent of instructor). 3 hours
- GG 6304 Principles of Sedimentary Deposits I (GG 4114/6114 or consent of instructor). 4 hours
- GG 6333 Geowriting. 3 hours
- GG 6403 Gulf Coast Stratigraphy (GG 4304/6304 or consent of instructor). 3 hours
- GG 6413 Structural Geology (GG 4123/6123 or consent of instructor). 3 hours
- GG 6433 Subsurface Methods (GG 4304/6304 or equivalent). 3 hours
- GG 6443 Principles of Sedimentary Deposits II (GG 4304/6304 or equivalent). 3 hours
- GG 6503 Geomorphology (Consent of instructor). 3 hours
- GG 6523 Coastal Environments (GG 1113, GR 1114 or consent of instructor). 3 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>GG 6613</td>
<td>Physical Hydrogeology (GG 3613 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>GG 6623</td>
<td>Chemical Hydrogeology (CE 3523, CE 8563, or GG 4613/6613 or consent of instructor)</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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<tr>
<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 (online)</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>GG 8233</td>
<td>Environmental Geoscience (GG 6113 or consent of instructor). 3 hours (online)</td>
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<td>GG 8323</td>
<td>History of Life (Consent of instructor). 3 hours video and online</td>
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<tr>
<td>GG 8333</td>
<td>Planetary Science (GG 6113 or consent of instructor). 3 hours (online)</td>
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<tr>
<td>GG 8423</td>
<td>Earthquakes and Volcanoes (Consent of instructor). 3 hours video and online</td>
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<tr>
<td>GG 8443</td>
<td>Advanced Structural Geology (Major in geology including GG 4413/6613 or equivalent). 3 hours</td>
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<tr>
<td>GG 8561</td>
<td>Geoscience Seminar. 1 hour</td>
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<td>GG 8572</td>
<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>GG 8723</td>
<td>Regional Geology of Western North America (Major in geology). 3 hours</td>
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<tr>
<td>GG 8913</td>
<td>Research, Readings, and Techniques in Geosciences (Consent of instructor). 3 hours</td>
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<td>GG 8990</td>
<td>Special Topics in Geology. 1-9 hours</td>
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<td>GR 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 6213</td>
<td>Geography of Latin America. 3 hours</td>
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<td>GR 6223</td>
<td>Geography of Europe. 3 hours</td>
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<td>GR 6233</td>
<td>Geography of Asia. 3 hours</td>
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<td>GR 6243</td>
<td>Geography of Russia and the Former Soviet Republics. 3 hours</td>
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<td>GR 6253</td>
<td>Geography of Africa. 3 hours</td>
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<td>GR 6263</td>
<td>Geography of the South. 3 hours</td>
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<td>GR 6273</td>
<td>Geography of Mississippi. 3 hours</td>
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<td>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>GR 6333</td>
<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 6412</td>
<td>Weather Analysis II (GR 4402/6402). 1 hour</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>
<td>Practicum in Broadcast Meteorology I (GR 1603 or equivalent). 2 hours</td>
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<td>GR 6512</td>
<td>Practicum in Broadcast Meteorology II (GR 4502/6502). 2 hours</td>
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<td>GR 6522</td>
<td>Practicum in Broadcast Meteorology III (GR 4512/6512). 2 hours</td>
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<td>GR 6532</td>
<td>Practicum in Broadcast Meteorology IV (GR 4522/6522). 2 hours</td>
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<td>GR 6603</td>
<td>Climatology (GR 1114 or GR 1123, or equivalent). 3 hours</td>
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<td>GR 6613</td>
<td>Applied Climatology (GR 1603 or equivalent). 3 hours</td>
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<td>GR 6623</td>
<td>Physical Meteorology (GR 1603). 3 hours</td>
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<td>GR 6633</td>
<td>Statistical Climatology (GR 1603 or GG 1113 or equivalent and MA 1313 or MA 1713). 3 hours</td>
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<td>GR 6640</td>
<td>Meteorological Internship (Consent of instructor). 1-6 hours</td>
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<td>GR 6713</td>
<td>Synoptic Meteorology I (GR 1603 or equivalent). 3 hours</td>
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<td>GR 6733</td>
<td>Synoptic Meteorology II (GR 1603 and MA 1713). 3 hours</td>
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<td>GR 6753</td>
<td>Satellite and Radar Meteorology (GR 1603). 3 hours</td>
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<td>GR 6813</td>
<td>Natural Hazards and Processes (GR 1114 or equivalent). 3 hours</td>
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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).  2 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 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

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**History**

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E-mail: correspondence@history.msstate.edu

The Department of History offers programs leading to the Master of Arts and Doctor of Philosophy degrees. Fields for the master's degree are: United States, Europe, Latin America, Asia, Africa, and World. Fields for the PhD. Degree are: United States and Europe. A student may choose a minor field of study outside the History Department with concurrence of his or her advisor. Not all of the fields listed above are available for dissertation research or as the major field for a Master of Arts degree.

**Admission Criteria**

The History Department expects an applicant to have either an overall GPA of 3.00 or a GPA of 3.00 in the last two years of undergraduate study. The prerequisite for admission to a graduate program in history is a minimum of 18 hours of undergraduate history courses; for a graduate minor in history, 12 hours of undergraduate history courses are required. A Ph.D. applicant must submit the Graduate Record Examination (GRE) and must submit a writing sample with their application packet to the Office of the Graduate School. Applicants who received the M.A. in History from MSU are not required to take the GRE. Examples of acceptable writing samples are publications, chapters from a thesis, or a seminar paper.

An international student intending to pursue a graduate degree in history must meet all regular requirements and, in addition, present a Test of English as a Foreign Language score of 550 or higher. This requirement does not apply to international students with degrees from an American institution nor to students from countries where English is the primary language. The applicant should understand that the History Department uses the statement of purpose as a major factor in making admissions decisions. It is to the applicant’s advantage to take special care in completing this statement. The applicant should add additional pages to the statement of purpose if necessary. To facilitate the
selection of an advisor the applicant should explain his/her fields of interest in the statement of purpose. An applicant whose quantitative credentials meet the stated criteria may still be denied admission because of qualitative factors. Normally, applicants will receive an admission decision within 30 days after the receipt of all required materials by the department.

**Provisional Admission**—An applicant not satisfying the minimum quantitative requirements or lacking an adequate background in history may be granted provisional admission. An applicant admitted on a provisional basis must earn a 3.00 GPA in his or her first 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.

**Program of Study/Completion Requirements Master of Arts Degree**

The History Department offers the Master of Arts degree with an emphasis in United States, European, Latin American, African, Asian, or World History. A student may choose between a thesis and a non-thesis degree program. Each student will choose a primary and a secondary area of emphasis. The primary area of emphasis will be drawn from one of the following subject areas: United States, European, Latin American, Asian, African, or World History. The secondary area of emphasis for a thesis student will be drawn from either another one of the above subject areas, or a topical field related to a particular region or historical phenomenon. Students can minor in a field outside of history; a minor outside of history must include at least nine semester hours. A degree candidate with a thesis must also demonstrate proficiency in one research skill which may be either reading proficiency in a foreign language or proficiency in quantitative methods or some other relevant research skill as determined by the student's graduate committee. The non-thesis program is designed for students planning to enter secondary education or who want to develop a broad understanding of history for a variety of other reasons. The secondary area of emphasis for a non-thesis degree candidate must be drawn from a geographic region other than the one the student has selected for the primary field. The non-thesis program does not require a research skill. Each candidate for the M.A. degree must complete HI 8923 Historiography and Historical Method and complete one research seminar at Mississippi State. Each candidate for the M.A. degree whose primary field of emphasis is in United States History must also complete two of the four Graduate Colloquia in United States History, one in the period before 1877 and one in the period after 1877. Each student must have a graduate committee composed of three graduate faculty members who will oversee the student’s progress toward the M.A. degree and conduct a written comprehensive examination and an oral defense of it at the conclusion of the student’s graduate studies. At least two of the committee members must be members of the History Department’s graduate faculty. If a minor from outside the department is selected, one member must be from the minor area of study.

Each master's degree candidate will complete a comprehensive examination at the completion of graduate studies. The examination will cover both primary and secondary fields and will be taken at a time and in a format determined by the student’s graduate committee. The student choosing the thesis option will also be expected to provide an oral defense of the thesis at the conclusion of her/his graduate studies.

**9th Year Master of Arts Degree**

The History Department offers undergraduate students with an interest in history the opportunity to complete a Master of Arts in History with an additional year of post-baccalaureate study. This program offers both the thesis and non-thesis options outlined in the regular Master of Arts degree program.

**Admission Criteria**

Students may apply to the program once they have accumulated 60 hours of graded coursework and 15 hours of graded coursework in history. Applicants must have maintained a 3.5 GPA in both their cumulative undergraduate coursework and their coursework in history. Admission is contingent upon the student completing HI 3903 (Undergraduate Historiography and Historical Methods) with a grade of B or better. The initial application will be to the History Department’s Graduate Committee. Applicants must submit a completed graduate application form, a statement of purpose for graduate study, transcripts, and at least two letters of recommendation from history faculty members. The application deadlines for this program are November 1 and April 1. All applications will be reviewed at the start of the semester for which the student has been admitted into the program; students whose GPA has fallen below the minimum requirement or who have failed to complete HI 3903 with a B, will be removed from the program. If a student intends to apply for this program he or she should meet with the graduate coordinator during the advising period prior to the semester for which the student intends to apply for admission to select the appropriate courses.
The student must apply to the Graduate School for regular admission into the graduate program during his or her last year of enrollment as an undergraduate.

Program of Study/Completion Requirements

Students in this program must meet the same expectations regarding primary and secondary fields of emphasis, research skills, and forming a graduate committee as students in the regular M.A. program. Each candidate for the 5th year M.A. degree must complete the required coursework for either the thesis or non-thesis M.A., which includes at least 15 hours of coursework at the 7000-8000 level, HI 8923 Historiography and Historical methods, one research seminar, and for students whose field is in United States history two of the four Graduate Colloquia in United States History (HI 8933, HI 8943, HI 8953, HI 8963), one in the period before 1877 and one in the period after 1877.

Program of study as an undergraduate: In the course of completing the requirements for the student’s undergraduate degree the student may enroll in up to 9 hours of graduate courses which will count toward both the student’s undergraduate degree and the M.A. in history. These courses can be at either the 6000 or 8000 level, and the student should enroll in them for graduate credit. Once the graduate course has been completed, the student and advisor will apply to the Registrar to have the course count for undergraduate credit. Once this application is granted, the course will appear on the student’s undergraduate transcript. A split-level course will appear as the 4000-level equivalent of the 6000-level course. An 8000-level course will appear on the student’s transcript as a 4993 Special Topics course with the same name as the 8000-level course. The student may opt out of the 5th year M.A. program at any time and complete a regular undergraduate major in history. Once the student has opted out, however, no further courses will be allowed to count for both graduate and undergraduate credit.

Registration for a graduate course requires the undergraduate student to complete the Undergraduate Request to Enroll in Graduate Courses(s) form. The student can access the form at http://www.grad.msstate.edu/forms/pdf_forms/undergraduate_request_to_enroll_in_graduate_course.pdf and must submit the completed form to the Office of the Graduate School. The OGS will inform the student by email when he/she can register for the graduate course.

The student will receive the bachelor’s degree after the requirements for that degree have been met. On completion of the degree the student will be admitted into the regular graduate program provided the student has received no grade lower than a C in any course taken for graduate credit and not received more than one C in the courses taken for undergraduate credit; in either of these cases the student will be dismissed from the graduate program. If the student’s GPA in graduate-level courses is below a 3.00 the student will enter the graduate portion of the 5th Year M.A. program on academic probation and may be removed from the program if the overall GPA does not rise above 3.00 at the end of the student’s first full semester in the graduate program.

Program of study for the student’s post-baccalaureate year: In the student’s post-baccalaureate year he or she will be expected to complete either the thesis or non-thesis degree program. Students who do not complete the 5th Year M.A. program by the end of the summer following their first post-baccalaureate year will be automatically transferred into the regular M.A. program.

Doctor of Philosophy Degree

The History Department offers the Ph.D. degree with a primary emphasis in either United States or European History. The student will choose a primary field of emphasis in either United States History or European History. Students are required to prepare for examination in four fields of emphasis. Two fields of emphasis will be chronological fields within the primary area of emphasis (U.S. or European). A third field of emphasis will be drawn from the department’s core areas (International Security and Internal Safety, History of Science and Technology, and Agricultural, Rural, and Environment History). The final field of emphasis will be a topical or regional field or in a discipline other than history. Fields of emphasis outside of the History Department must include at least 12 hours. The student should refer to the History Department’s list of available fields of emphasis for more information. Each student must hold a bachelor’s degree from an appropriately accredited institution of higher learning and possess qualifications indicating ability to do graduate work on a doctoral level, as determined by the department’s Graduate Committee.

The department expects that the student will normally complete at least 60 hours of coursework (40 classroom hours and 20 research hours) beyond the bachelor’s degree for the Ph.D. degree in history. Credit earned in a master’s degree program at Mississippi State or up to 20 credit hours earned elsewhere may be used to satisfy requirements for the doctoral program if it is appropriate to the candidate’s doctoral fields and acceptable to the student’s graduate committee. Each student pursuing
the Ph.D. degree in history must demonstrate proficiency in at least one research skill by the end of the fourth semester of his or her enrollment in the program. This requirement may be fulfilled by demonstrating a reading knowledge of a foreign language or by demonstrating proficiency in another research skill appropriate to the student’s field of study. Each candidate is required to complete, or have completed, HI 8923 Historiography and Historical Method at Mississippi State and two research seminars. Each student is also required to select a specialization in one of the Department’s three core areas: International Security and Internal Safety, or History of Science and Technology, or Agricultural, Rural, and Environmental History. Students will be expected to complete one seminar in their chosen specialization (HI 8873, or HI 8893, or HI 8883) and three related courses chosen in consultation with the student’s graduate committee. Students whose primary field of emphasis is in United History will also be expected to complete all four of the Department’s Graduate Colloquia in United States History (HI 8933, HI 8943, HI 8953, HI 8963) or an equivalent acceptable to the graduate committee.

The prospective Ph.D. candidate must understand that work toward a Ph.D. degree is different from other academic work he or she may have undertaken. The holder of a Ph.D. degree is assumed to have mastered his or her field of study and to have developed an ability to do original research and to make original contributions to knowledge. It is the responsibility of the student’s major professor and committee members to determine when this level of understanding has been reached. It cannot be measured by the number of courses completed, and the exact amount of coursework required of each student in the History Department may vary.

Each student must have a graduate committee composed of at least four graduate faculty members. The chairman must be from the student’s major field of emphasis and must be a full member of the graduate faculty. He or she will normally be the student’s future dissertation director. The committee will include a second reader, who will assist the dissertation director, and at least two other members. Four members of the committee must be members of the History Department’s graduate faculty.

When the student and his or her major professor agree that adequate preparation has been made, the major professor will schedule a comprehensive examination. Full-time Ph.D. students should normally take their comprehensive examinations within three years of enrollment, and part-time Ph.D. students should take their comprehensive examinations within four years of enrollment. The student must have either completed all coursework or be within 6 hours of completing the coursework. The student must have fulfilled the research skill requirement and must have met all other History Department and Graduate School requirements. Each student will take four written comprehensive examinations. Students will be allowed one day for each field, and the four examinations must be completed within a two-week period. Faculty members who have collaborated in preparing a student for a particular field of emphasis may contribute to one examination. The student’s committee will then decide if the quality of the written examinations warrants proceeding to the oral examination. If a student fails either the written or oral part of the comprehensive examination, she or he may retake it after the passage of four months. A second failure will result in termination from the program.

After passing comprehensive examinations, the student must submit a dissertation proposal which must be approved in writing by all members of the student’s graduate committee before the student will be admitted to candidacy for the Ph.D. The dissertation proposal must include at least the topic, historical question to be answered, hypothesis answering that question, and sources to be consulted. The dissertation proposal must specify both the director and the second reader. No candidates will be granted a dissertation fellowship until the approved dissertation proposal is on file in the History Department office.

The composition of the candidate’s graduate committee for the dissertation need not be identical to the committee which conducts the comprehensive examination. The second reader of a dissertation will be actively involved in the dissertation process. The second reader will be kept informed of the progress the candidate is making in the research and will comment upon drafts of outlines and chapters as the candidate writes them.

The dissertation must show the candidate’s mastery of research methods in history and must make an original contribution to scholarship in the candidate’s field. The dissertation must reflect at least 20 semester hours of dissertation research.

The candidate’s graduate committee must approve the dissertation and administer a final oral examination (defense). The dissertation must be provided to the members of the committee at least fourteen days before the defense.
For additional information contact the Graduate Coordinator, Department of History, Box H, Mississippi State, MS 39762, e-mail histgradco@org.msstate.edu or call 662-325-3604 and obtain the Department’s Handbook.

**Academic Performance**

Although one C grade may be included in a graduate program, the History Department views C grades as evidence of unsatisfactory work. A student who earns a second C grade will be dismissed from the program. Students earning one grade of D or F will also be dismissed from the program. A candidate for degree must have achieved a B average by the end of the coursework.

**Prerequisites and Core Courses:**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tr>
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<td>Colonial America</td>
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<td>U.S. History 1783-1825</td>
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<td>HI 6123</td>
<td>Jacksonian America, 1825-1850</td>
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<td>HI 6133</td>
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<td>HI 6163</td>
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<td>HI 6183</td>
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<td>HI 6193</td>
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<td>HI 6213</td>
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<td>HI 6223</td>
<td>Intelligence Gathering in the 20th Century</td>
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<td>HI 6233</td>
<td>American Military History</td>
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<tr>
<td>HI 6243</td>
<td>American Life and Thought</td>
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<tr>
<td>HI 6253</td>
<td>Religion in America (HI 1063 or 1073)</td>
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<td>HI 6263</td>
<td>America’s Viet Nam War</td>
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<td>Science and Technology</td>
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<td>HI 6653</td>
<td>The History of Science and Technology</td>
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<td>History of Britain Since 1688</td>
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<td>HI 6813</td>
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<td>HI 6833</td>
<td>Colonial Latin America</td>
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<td>Latin-American Republics</td>
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<td>Readings in Ancient History. 3 hours</td>
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<td>Readings in Renaissance and Reformation. 3 hours</td>
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<td>Readings in English History, 1485-1714. 3 hours</td>
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<td>Readings in English History Since 1714. 3 hours</td>
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<td>Readings in Colonial Latin America. 3 hours</td>
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<td>Readings in Latin-American Republics. 3 hours</td>
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<td>Readings in Russian History. 3 hours</td>
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<td>HI 8773</td>
<td>Issues in Women’s History (Graduate standing and enrollment in Diversity Certificate program). 3 hours</td>
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<td>HI 8803</td>
<td>Graduate Colloquium (Course may be repeated for credit). 3 hours</td>
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<td>Seminar in U.S. History Before 1877 (Course may be repeated for credit). 3 hours</td>
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<tr>
<td>HI 8863</td>
<td>Seminar in European History Since 1789 (Course may be repeated for credit). 3 hours</td>
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</table>

**Diversity Certificate Program**

**Dr. Alan I. Marcus**

214 Allen Hall
Box H
Mississippi State, MS 39762
Telephone: 662-325-7075
E-mail: aimarcus@history.msstate.edu

The Diversity Certificate Program seeks to teach workplace success by providing the multi-cultural knowledge and skills necessary to navigate among a diverse workforce. At the heart of this post-baccalaureate program is the demand that students learn and think critically about race, race relations, ethnicity, social class and inequality, religion, and
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.
Mathematics and Statistics
Dr. Mohsen Razzaghi, Department Head
Dr. Corlis Johnson, Graduate Coordinator
410 Allen Hall
Drawer MA
Mississippi State, MS 39762
Telephone: 662-325-3414
Fax: 662-325-0005
E-mail: office@math.msstate.edu
Website: http://math.msstate.edu/

Mathematics
Admission Criteria
Graduate study is offered in the Department of Mathematics and Statistics leading to the degrees of Master of Science in Mathematics and Doctor of Philosophy in Mathematical Sciences. For unrestricted admission to the master’s degree program, a degree applicant must submit three letters of recommendation and transcripts from all former institutions attended. The applicant must present the equivalent of an undergraduate major in mathematics, as described in the general catalog, with a minimum grade point average of 2.75 on a 4.00 scale on the last two years of undergraduate academic work. In addition, a student is expected to possess those qualities that, in the judgment of the departmental graduate faculty, indicate that the applicant has the ability to do graduate work at the appropriate level. A minimum score of 477 PBT (153 CBT or 53 iBT) on the Test of English as a Foreign Language (TOEFL) or a score of 4.5 on the International English Language Testing Systems (IELTS) is required of international students (with some exceptions). An applicant for the Ph.D. program must meet the requirements for admission to the master’s degree program and submit a satisfactory score on the Graduate Record Examination (GRE) General Test. The department awards a limited number of teaching assistantships. It is recommended that teaching assistantship applicants who do not have English as their native language must submit a score of at least 600 PBT (250 CBT or 100 iBT) on the TOEFL or 7.5 on the IELTS.

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. The student must have as his or her initial objective advancement to regular status. A student admitted to provisional status is eligible for advancement to regular status after receiving a 3.00 GPA on the first 9 hours of regular graduate-level 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.

Program of Study/Completion Requirements
For the degree of Master of Science in Mathematics, thesis and non-thesis options are available. The thesis option for the Master of Science in Mathematics requires 30 hours of coursework including MA 6153, MA 6753, MA 6933, one of MA 6163 or MA 6943, and one of MA 6313 or MA/ST 6543, an examination over MA 6153, MA 6753, MA 6933, and a thesis. The non-thesis option for the Master of Science in Mathematics requires a project, 33 additional hours of coursework including MA 6153, MA 6753, and MA 6933, one of MA 6163 or MA 6943, and one of MA 6313 or MA/ST 6543, and an examination over MA 6153, MA 6753, and MA 6933. The Doctor of Philosophy in Mathematical Sciences includes at least 6 hours of graduate courses in each of four areas of mathematics and/or statistics, at least 9 to 12 hours of graduate courses in an area of specialization, a comprehensive examination, a preliminary examination, a dissertation, and dissertation defense. Before taking the preliminary examination, a Ph.D. student must satisfy the departmental foreign language requirement. Research areas for the Ph.D. include applied and computational mathematics, ordinary and partial differential equations, functional analysis and operator theory, topology, graph theory, functional equations, and statistics.

For further details and specific degree requirements contact, Graduate Coordinator, Box MA, Mississippi State, MS 39762, or office@math.msstate.edu; see also http://math.msstate.edu.

Graduate Courses—Course prerequisites are noted in parentheses.

MA 6133 Discrete Mathematics (MA 3113 or consent of instructor), 3 hours
MA 6143 Graph Theory (MA 3113 or consent of instructor), 3 hours
MA 6153 Matrices and Linear Algebra (MA 3113 and MA 3253), 3 hours
MA 6163 Group Theory (MA 3163 or consent of instructor), 3 hours
MA 6173 Number Theory (MA 3113), 3 hours
MA 6243 Data Analysis I (MA 2743. Corequisite: MA 3113), 3 hours
MA 6253 Data Analysis II (MA /ST4243/6243 and MA 3113), 3 hours
MA 6313 Numerical Analysis I (CSE 1213 or equivalent, MA 3113 and MA 2743), 3 hours
MA 6323 Numerical Analysis II (CSE 1213 or equivalent, MA 3113, and MA 3253), 3 hours
MA 6373 Introduction to Partial Differential Equations (MA 3253), 3 hours
MA 6513 Applied Probability and Statistics for Secondary Teachers (MA 1723), 3 hours
MA 6523 Introduction to Probability (MA 2733) [Same as ST 6523], 3 hours
MA 6533 Introductory Probability and Random Processes (MA 3113 and MA 2743), 3 hours
MA 6543 Introduction to Mathematical Statistics I (MA 2743) [Same as ST 6543], 3 hours
MA 6573 Introduction to Mathematical Statistics II (MA 4543/6543) [Same as ST 6573], 3 hours
MA 6633 Advanced Calculus I (MA 2743 and MA 3053), 3 hours
MA 6643 Advanced Calculus II (MA 4633/6633), 3 hours
MA 6733 Linear Programming (MA 3113) [Same as IE 6733], 3 hours
MA 6753 Applied Complex Variables (MA 2743), 3 hours
MA 6933 Mathematical Complex Variables (MA 4633), 3 hours
MA 6943 Mathematical Analysis I (MA 4633/6633 or equivalent), 3 hours
MA 6953 Elementary Topology (MA 4633/6633), 3 hours
MA 6990 Special Topics in Mathematics. Hours and credits to be arranged.
MA 7000 Directed Individual Study. Hours and credits to be arranged.
MA 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
MA 8113 Modern Higher Algebra I (MA 4163/6163), 3 hours
MA 8123 Modern Higher Algebra II (MA 8113), 3 hours
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
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.

**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 emphasis to take additional courses beyond the required core. 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. In preparing 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 or 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.

ST 6211  Statistical Consulting (Consent of instructor) (May be taken for credit more than once). 1 hour
ST 6213  Nonparametric Methods (Introductory course in statistical methods). 3 hours
ST 6243  Data Analysis I (MA 2743, Corequisite: MA 3113) [Same as MA 6243]. 3 hours
ST 6253  Data Analysis II (MA/ST 4243/6243 and MA 3113) [Same as MA 6253]. 3 hours
ST 6313  Introduction to Spatial Statistics (Grade of C or better in ST 3123 or equivalent). 3 hours
ST 6523  Introduction to Probability (MA 2733) [Same as MA 6523]. 3 hours
ST 6543  Introduction to Mathematical Statistics I (MA 2743) [Same as MA 6543]. 3 hours
ST 6573  Introduction to Mathematical Statistics II (ST 6543) [Same as MA 6573]. 3 hours
ST 6990  Special Topics in Statistics. 1-9 hours
ST 7000  Directed Individual Study. Hours and credits to be arranged.
ST 8000  Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
ST 8114  Statistical Methods (MA 1313). 4 hours
ST 8214  Design and Analysis of Experiments (ST 8114). 4 hours
ST 8253  Regression Analysis (ST 8114 or equivalent). 3 hours
ST 8263  Advanced Regression Analysis (ST 8253). 3 hours
ST 8313  Introduction to Survey Sampling (ST 8114). 3 hours
ST 8353  Statistical Computations (ST 8114). 3 hours
ST 8413  Multivariate Statistical Methods (ST 8253). 3 hours
ST 8533  Applied Probability (ST 4543/6543). 3 hours
ST 8603  Applied Statistics (ST 4253/6253 or equivalent). 3 hours
ST 8613  Linear Models I (ST 4573/6573 and ST 4253/6253). 3 hours
ST 8633  Linear Models II (ST 8613). 3 hours
ST 8853  Advanced Design of Experiments I (ST 8603 or ST 8214). 3 hours
ST 8863  Advanced Design of Experiments II (ST 8853 and ST 8613). 3 hours
ST 8913  Recent Developments in Statistics (Consent of instructor). 3 hours
ST 8951  Seminar in Statistics (Consent of instructor) (May be taken for credit more than once). 1 hour
ST 8990  Special Topics in Statistics. 1-9 hours
ST 9000  Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

Philosophy and Religion
Dr. John Bickle, Department Head
228 Etheredge Hall
Box JS
Mississippi State, MS 39762
Telephone: 662-325-2382
E-mail: jb1681@msstate.edu
Website: http://www.philosophyandreligion.msstate.edu/

The Department of Philosophy and Religion offers graduate study to meet the requirements for a graduate minor. The prerequisites for a graduate minor are 12 hours of credit in undergraduate courses in philosophy or religion. For additional information call 662-325-2382.

Graduate Courses—Course prerequisites are noted in parentheses.

Philosophy:

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
Phyisics and Astronomy
Dr. Mark Novotny, Department Head
Dr. David Monts, Graduate Coordinator
125 Hilburn Hall
Box 5167
Mississippi State, MS 39762
Telephone: 662-325-2806
Fax: 662-325-8898
E-mail: physics@msstate.edu
Website: http://www.msstate.edu/dept/physics/

Graduate study is offered in the Department of Physics and Astronomy leading to the degree of Master of Science in Physics; both thesis and non-thesis options are offered. An interdisciplinary program leading to the degree of Doctor of Philosophy in Engineering with a concentration in Applied Physics is available. A specific program, depending on the research interest of the student, is established by consultation between the student and his/her advisor. The department requires an M.S. (either thesis or non-thesis) from Mississippi State University or another recognized university as a prerequisite for admission to the Applied Physics Ph.D. graduate program. The non-thesis M.S. option provides a means of enabling the Ph.D.-track student to complete graduate education in a more timely manner.

Major areas of study are: computational physics, theoretical and experimental optics; diagnostics using the techniques of conventional, imaging, and laser spectroscopy; experimental and theoretical nuclear structure physics; intermediate energy nuclear physics; experimental and applied electromagnetic scattering; astrophysics; and astrochemistry. Graduate research and teaching assistantships are available.

Admission Criteria
TOEFL and IELTS scores are used following the General Requirements for Admission by the University.

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the appropriate department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. The student must have as his or her initial objective advancement to regular status. A student admitted provisionally is eligible for advancement to regular status after receiving a 3.00 GPA on the first 9 hours of regular graduate-level courses attempted after admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 GPA is not attained, the provisional student may be dismissed from the graduate program.

Program of Study/Completion Requirements
All thesis M.S. students will be expected to complete a core curriculum consisting of PH 8233, PH 8743, and any two of PH 8243, PH 8213, and PH 8313. In addition, all thesis M.S. students are required to take a minimum of 6 hours of PH 8000 research/thesis. A thesis is required of all thesis M.S. students. All non-thesis M.S. candidates will be expected to complete a core curriculum of PH 8213, PH 8233, PH 8243, PH 8313, PH 8743, and PH 8753, and must pass a written qualifying examination on the Physics core courses. After successfully passing the qualifying exam, non-thesis M.S. students are required to pass an oral comprehensive exam.

All Ph.D. candidates will be expected to complete a core curriculum of PH 8213, PH 8233, PH 8243, PH 8313, PH 8743, and PH 8753. Other courses taken will emphasize the area of specialization. In addition, all Ph.D. candidates are required to take a minimum of 20 credit hours of PH 9000 research/dissertation. All Ph.D. candidates must pass written preliminary examinations on Physics core courses and, if required by their graduate advisory committee or the Physics department head, on their Engineering or other applied courses as well as an oral preliminary examination on the proposed dissertation topic and coursework. A dissertation is required of all Ph.D. candidates.

Academic Performance
A candidate for a degree must average B or higher on all courses attempted for graduate credit after admission to the program. No grade under C will be accepted for graduate credit; thus, a student may be terminated if he or she obtains more than two grades below a C in courses taken for graduate credit or fails to obtain a C or better in any repeated course. With the approval of the graduate coordinator and the college dean, a student may retake one course per degree, except for those approved for repeated credit (e.g. special topics, individual studies, thesis, dissertation, etc.). Both courses will remain on the permanent transcript, and both grades will be computed in final averages. This policy applies to all courses (even those not on the program of study) taken as a graduate student related to a specific
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 Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 6013</td>
<td>Selected Topics in Physics for Teachers</td>
<td>3</td>
</tr>
<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>
<tr>
<td>PH 6043</td>
<td>Demonstrations and Concepts for Physics Teachers II</td>
<td>3</td>
</tr>
<tr>
<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 (PH 1133 or PH 2223 and MA 2733)</td>
<td>3</td>
</tr>
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<td>PH 6143</td>
<td>Intermediate Laboratory</td>
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<td>PH 6152</td>
<td>Modern Physics Laboratory</td>
<td>2</td>
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<td>PH 6213</td>
<td>Intermediate Mechanics I (PH 1133 or PH 2233 and MA 2733)</td>
<td>3</td>
</tr>
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<td>PH 6223</td>
<td>Intermediate Mechanics II (PH 4213/6213)</td>
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</tr>
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<td>PH 6323</td>
<td>Electromagnetic Fields I (PH 1133 or PH 2233, MA 2743)</td>
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<td>PH 6333</td>
<td>Electromagnetic Fields II (PH 4323/6323)</td>
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<td>PH 6413</td>
<td>Thermal Physics (PH 3613, MA 2743)</td>
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<td>Computational Physics (PH 3613 and MA 3253)</td>
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<td>PH 6513</td>
<td>Intermediate Optics (PH 1123 or PH 2233, 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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<td>PH 6723</td>
<td>Applications of Quantum Mechanics (PH 4713/6713)</td>
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<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</td>
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<td>PH 7000</td>
<td>Directed Individual Study</td>
<td>1-6</td>
</tr>
<tr>
<td>PH 8000</td>
<td>Thesis Research/Thesis</td>
<td>Hours and credits to be arranged; minimum of 6 hours required for degree</td>
</tr>
<tr>
<td>PH 8213</td>
<td>Mechanics (A good undergraduate training in physics and mathematics and consent of instructor)</td>
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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>
<td>3</td>
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<tr>
<td>PH 8313</td>
<td>Electromagnetic Theory (PH 4333/6333 or equivalent)</td>
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<td>PH 8513</td>
<td>Statistical Mechanics (PH 4713 and PH 4413)</td>
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<tr>
<td>PH 8613</td>
<td>Nuclear Physics I (PH 4723/6723)</td>
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<tr>
<td>PH 8743</td>
<td>Quantum Mechanics I (PH 4723/6723, MA 3313)</td>
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<tr>
<td>PH 8753</td>
<td>Quantum Mechanics II (PH 8743)</td>
<td>3</td>
</tr>
<tr>
<td>PH 8803</td>
<td>Molecular Structure (PH 8743)</td>
<td>3</td>
</tr>
<tr>
<td>PH 8990</td>
<td>Special Topics in Physics</td>
<td>1-9</td>
</tr>
<tr>
<td>PH 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>

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**Political Science and Public Administration**

Dr. K. C. Morrison, Department Head  
Dr. P. Edward French, Graduate Coordinator
105 Bowen Hall  
Box PC  
Mississippi State, MS 39762  
Telephone: 662-325-2711  
E-mail: efrench@pspa.msstate.edu  
Website: [http://www.msstate.edu/dept/politicalscience/](http://www.msstate.edu/dept/politicalscience/)

The Department of Political Science and Public Administration offers graduate study leading to the Doctor of Philosophy (Ph.D.) in Public Policy and Administration, the Master of Public Policy and Administration (M.P.P.A.) and the Master of Arts (M.A.) in Political Science. The department awards a limited number of graduate assistantships.

**Public Policy and Administration**

**Ph.D. Admission Criteria**

A student admitted to the Ph.D. program must have earned a graduate degree from an accredited university with a master’s level grade point average of at least 3.35. The applicant must submit the results of the Graduate Record Examination (GRE); three letters of recommendation; a current résumé, two samples of previously written research (e.g., graduate thesis or capstone analysis) or analytic work completed in his or her professional career; and a statement of professional intent. The Ph.D. committee interviews most applicants.
An international applicant whose native language is not English must have a score of 600 PBT (250 CBT or 100 iBT) or better on the Test of English as a Foreign Language (TOEFL) or 7.5 on the International English Language Testing Systems (IELTS). A foreign national whose native language is not English and who holds a degree from a college or university in the U.S. must submit a TOEFL score of at least 600 PBT (or equivalent) if the verbal GRE score is lower than 500.

Program of Study/Completion Requirements
The Doctor of Philosophy degree in Public Policy and Administration requires a minimum of 65 semester hours (beyond the master’s degree) comprised of 15 hours of public administration core courses, 12 hours of public policy core courses, 9 hours in a selected concentration, 9 hours of research methodology, and 20 hours of dissertation research. The objectives of the program include: 1) preparing graduates for academic teaching careers and 2) preparing graduates for management careers in state and local administration.

Assistantships are available for full-time study. An applicant interested in being considered for financial assistance must indicate that interest at the time of application. Applications for financial assistance are due by March 1.

A student who has not been enrolled for one regular semester (fall or spring) is required to submit a readmission form and a new statement of purpose. The readmission must be approved by the Graduate Coordinator. If a student has not been enrolled for one calendar year, the applicant must submit a new application and statement of purpose to be considered for readmission.

Unsatisfactory Performance
A student in the Ph.D. program will be dismissed if he or she
• has an unsatisfactory Diagnostic Review, or
• receives grades of C or lower in six or more credits of graduate work, or
• fails the preliminary exams a second time.

Master of Public Policy and Administration (M.P.P.A.)
The 42-hour Master of Public Policy and Administration program strives to professionalize and diversify public service. The program prepares persons to serve effectively as public administrators at the national, state, and local levels of government.

Admission Criteria
A competitive applicant for the M.P.P.A. program must have completed the last two years of undergraduate work with a grade point average of 3.00; applicants with previous graduate work must have a grade point average of 3.00 on such coursework. Moreover, the applicant must submit a résumé and the results of either the Graduate Record Examination (GRE) or the Miller Analogies Test (MAT); the applicant must also submit three letters of recommendation. An applicant with a lower grade point average may be admitted if she or he has a competitive score on the Miller Analogies Test or on the verbal, quantitative, and analytical writing portions of the GRE.

An international applicant whose native language is not English must have a score of 600 PBT (243 CBT or 96 iBT) or better on the Test of English as a Foreign Language (TOEFL) or 7.5 on the International English Language Testing System (IELTS). An international applicant whose native language is not English and who holds a degree from a college or university in the U.S. must submit a TOEFL score of at least 600 PBT (or equivalent) if the verbal Graduate Record Examination score is lower than 500.

A student who has not been enrolled for one regular semester (fall or spring) is required to submit a readmission form and a new statement of purpose. The readmission must be approved by the Graduate Coordinator. If a student has not been enrolled for one calendar year, the applicant must submit a new application and statement of purpose to be considered for readmission.

Provisional Admission—An applicant who fails to meet admission requirements may be admitted on a provisional basis. A students admitted on a provisional basis must receive no grade lower than B during the initial 9 hours of graduate work. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement.

Program of Study/Completion Requirements
The Master of Public Policy and Administration program consists of three facets:
(1) Core Courses—27 hours
These are courses that provide broad training in public policy and administration. These courses cover the fundamental competencies essential for professional practice in the field of public policy and administration.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<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>
</tr>
<tr>
<td>PPA 8743</td>
<td>Administrative Law</td>
</tr>
</tbody>
</table>
PPA 8803 Research Methods for Public Affairs  
PPA 8903 Public Policy  
PPA 8983 Integrative Capstone  
(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.  

Political Science  
Master of Arts Admission Criteria  
A competitive applicant for the Master of Arts in Political Science program must have completed the last two years of undergraduate work with a grade point average of 3.00; an applicant with previous graduate work must have a grade point average of 3.00 on such 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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>PS 6283</td>
<td>Public Opinion (PS 1113). 3 hours</td>
</tr>
<tr>
<td>PS 6293</td>
<td>Political Behavior (PS 1113). 3 hours</td>
</tr>
<tr>
<td>PS 6633</td>
<td>Democracy and Democratization (PS 1513). 3 hours</td>
</tr>
<tr>
<td>PS 6743</td>
<td>Environmental Policy (PS 1113, PS 2703, or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>PS 8113</td>
<td>Seminar in State Government and Politics (PS 4113 and 9 hours of related courses, or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>PS 8153</td>
<td>Seminar in Campaign Politics (PS 8103 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>PS 8513</td>
<td>Readings in Local Government and Politics (Consent of instructor). 3 hours</td>
</tr>
<tr>
<td>PS 8523</td>
<td>Readings in State Government and Politics (Consent of instructor). 3 hours</td>
</tr>
<tr>
<td>PS 8533</td>
<td>Readings in National Government and Politics (Consent of instructor). 3 hours</td>
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<tr>
<td>PS 8903</td>
<td>Public Policy [Same as PPA 8903]. 3 hours</td>
</tr>
<tr>
<td>PS 9103</td>
<td>American Political Institutions (Consent of instructor) [Same as PPA 9103]. 3 hours</td>
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<tr>
<td>PS 9893</td>
<td>American Political Behavior [Same as PPA 9893] (PS 9803 and consent of instructor). 3 hours</td>
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<tr>
<td>PS 6303</td>
<td>United States Foreign Policy (PS 1313). 3 hours</td>
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<tr>
<td>PS 6313</td>
<td>Principles of International Law (PS 1313). 3 hours</td>
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<tr>
<td>PS 6323</td>
<td>International Organization (PS 1313). 3 hours</td>
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<tr>
<td>PS 6333</td>
<td>Theories of International Relations (PS 1313). 3 hours</td>
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<tr>
<td>PS 6343</td>
<td>International Conflict and Security (PS 1313 and junior standing). 3 hours</td>
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<tr>
<td>PS 6353</td>
<td>International Political Economy (PS 1313 or consent of instructor). 3 hours</td>
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<tr>
<td>PS 6363</td>
<td>International Peacekeeping and Post-Conflict Nation (PS 1313 or PS 1513). 3 hours</td>
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<td>PS 6383</td>
<td>National Security Policy (PS 1313). 3 hours</td>
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<td>PS 6393</td>
<td>The Global Context (Junior standing or consent of instructor). 3 hours</td>
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<td>PS 8303</td>
<td>Seminar in International Relations (PS 1313 and 9 hours of related courses or consent of instructor). 3 hours</td>
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<td>PS 8553</td>
<td>Readings in International Relations (Consent of instructor). 3 hours</td>
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<tr>
<td>PS 6423</td>
<td>20th Century Political Thought (PS 2403 or consent of instructor). 3 hours</td>
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<td>PS 6433</td>
<td>American Political Theory (PS 1113). 3 hours</td>
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<tr>
<td>PS 6453</td>
<td>Western Political Theory. 3 hours</td>
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<tr>
<td>PS 8413</td>
<td>Seminar in Political Theory (PS 2403 and 9 hours of related courses or consent of instructor). 3 hours</td>
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<tr>
<td>PS 9413</td>
<td>Normative Analysis of American Public Policy [Same as PPA 9413]. 3 hours</td>
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**Comparative Politics:**

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<tr>
<td>PS 6543</td>
<td>African Politics (PS 1513). 3 hours</td>
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<tr>
<td>PS 6553</td>
<td>West European Politics (PS 1513). 3 hours</td>
</tr>
<tr>
<td>PS 6573</td>
<td>South and Southeast Asian Politics (PS 1513). 3 hours</td>
</tr>
<tr>
<td>PS 6593</td>
<td>Latin American Politics (PS 1513). 3 hours</td>
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<tr>
<td>PS 6623</td>
<td>Politics of the Third World (PS 1513). 3 hours</td>
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<tr>
<td>PS 8203</td>
<td>Seminar in Comparative Government (PS 1513 and 9 hours of related courses or consent of instructor). 3 hours</td>
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<tr>
<td>PS 8543</td>
<td>Readings in Comparative Government and Politics (Consent of instructor). 3 hours</td>
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**Research Methods:**

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<tr>
<td>PS 6464</td>
<td>Political Analysis (6 hours in political science). 4 hours</td>
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<td>PS 6990</td>
<td>Special Topics in Political Science. 1-9 hours</td>
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<tr>
<td>PS 8803</td>
<td>Research Methods for Public Affairs [Same as PPA 8803]. 3 hours</td>
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<td>PS 8813</td>
<td>Quantitative Methods for Public Affairs (PS 8803 or PPA 8803) [Same as PPA 8813]. 3 hours</td>
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<td>PS 8990</td>
<td>Special Topics in Political Science. 1-9 hours</td>
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**Research:**

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<tr>
<td>PS 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<td>PS 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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**Master of Public Policy and Administration:**

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<tr>
<td>PS 6703</td>
<td>Principles of Public Administration (PS 1113). 3 hours</td>
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<tr>
<td>PPA 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<tr>
<td>PPA 8103</td>
<td>Seminar in Public Administration. 3 hours</td>
</tr>
<tr>
<td>PPA 8123</td>
<td>State Government Administration. 3 hours</td>
</tr>
<tr>
<td>PPA 8133</td>
<td>City and County Management. 3 hours</td>
</tr>
<tr>
<td>PPA 8143</td>
<td>Civil Rights and Affirmative Action. 3 hours</td>
</tr>
<tr>
<td>PPA 8153</td>
<td>Seminar in Privatization. 3 hours</td>
</tr>
<tr>
<td>PPA 8193</td>
<td>Seminar in Intergovernmental Relations. 3 hours</td>
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<tr>
<td>PPA 8400</td>
<td>Public Administration Internship. 1-6 hours</td>
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<tr>
<td>PPA 8703</td>
<td>Government Organization and Administrative Theory. 3 hours</td>
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<tr>
<td>PPA 8713</td>
<td>Public Personnel Management. 3 hours</td>
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<tr>
<td>PPA 8723</td>
<td>Public Budgeting and Financial Management. 3 hours</td>
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<tr>
<td>PPA 8733</td>
<td>Public Program Evaluation. 3 hours</td>
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<td>PPA 8743</td>
<td>Administrative Law (PS 4703/6703). 3 hours</td>
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<tr>
<td>PPA 8763</td>
<td>Local Government Planning. 3 hours</td>
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PPA 8793 Directed Research in Public Administration (PPA 8803 and special permission). 3 hours
PPA 8803 Research Methods for Public Affairs [Same as PS 8803]. 3 hours
PPA 8813 Quantitative Methods for Public Affairs (PPA 8803 or PS 8803) [Same as PS 8813]. 3 hours
PPA 8833 Systems in Public Administration. 3 hours
PPA 8893 Public Policy [Same as PS 8903]. 3 hours
PPA 8983 Integrative Capstone (Consent of instructor). 3 hours
PPA 8990 Special Topics in Public Policy Administration. 1-9 hours

Ph.D. in Public Policy and Administration:
PPA 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree
PPA 9103 American Political Institutions (Consent of instructor) [Same as PS 9103]. 3 hours
PPA 9413 Normative Analysis of American Public Policy [Same as PS 9413]. hours
PPA 9603 Scope of American Public Administration (Consent of instructor). 3 hours
PPA 9613 Rural Government Administration I: Theoretical and Environmental Aspects (Consent of instructor). 3 hours
PPA 9623 Rural Government Administration II: Implementation Aspects (Consent of instructor). 3 hours
PPA 9703 Organization Behavior in the Public Sector (Consent of instructor). 3 hours
PPA 9713 Administration of Human Resources in a Public Sector Environment (Consent of instructor). 3 hours
PPA 9723 Public Budgeting Processes and Their Policy Implications (Consent of instructor). 3 hours
PPA 9803 Multivariate Analysis and Design for Public Affairs (Consent of instructor). 3 hours
PPA 9893 American Political Behavior (PPA 9803 and consent of instructor) [Same as PS 9893]. 3 hours
PPA 9903 Public Policy Formulation and Implementation (Consent of instructor). 3 hours

Psychology
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Dr. Deborah Eakin, Graduate Coordinator
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Telephone: 662-325-3202
E-mail: grad@psychology.msstate.edu
Website: http://www.psychology.msstate.edu

The Department of Psychology offers graduate study leading to the Master of Science in Psychology degree and the Doctor of Philosophy in applied cognitive science (an interdisciplinary program). Major areas of study at the master’s level are as follows: clinical psychology and experimental psychology. A limited number of graduate teaching and research assistantships are available.

Admission Criteria
Prerequisites for admission into the graduate program include all the general requirements of the Office of the Graduate School and the following courses at the undergraduate level:

- For all applicants—statistics, experimental psychology, and (if available to applicants) biological/physiological psychology or some sort of behavioral neuroscience course
- For the cognitive science doctoral program—introductory cognitive psychology
- For the clinical master’s program—abnormal psychology
- For the master’s program in experimental psychology—psychology of learning

The application deadline for the Cognitive Science doctoral program is January 15. 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 requirement (2.75 for the M.S. program and 3.00 for the Ph.D. program) may receive provisional admission if other factors (e.g., publications, work experience, excellent grades at the end of an undergraduate career) suggest the potential for successful graduate-level work.
**Provisional Admission**—If a student does not meet the GPA (2.75) admission requirements of the program, the student may be admitted provisionally. In that case, the student must attain a 3.00 GPA on the first 9 hours of graduate courses at MSU after admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 is not achieved, the student may be dismissed from the graduate program.

**Program of Study/Completion Requirements**
A student in the 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

- **Psychological Research Methods (3 hours from the following)**
  
  - 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

- **Philosophy of Science (1 hour)**
  
  - PHI 6143 Philosophy of Science

- **Introduction to Linguistics (1 hour)**
  
  - EN 6403 Introduction to Linguistics

- **Applied Cognitive Integration (ACI) (3 hours from the following)**
  
  - PSY 6753 Applied Cognitive Psychology
  - IE 8153 Cognitive Engineering

- **Psychology of Human Computer Interaction (3 hours from the following)**
  
  - PSY 6123 Psychology of Human Computer Interaction

- **Psychology and Law (3 hours from the following)**
  
  - PSY 6353 Psychology and Law
  - IE 6113 Human Factors Engineering

- **Seminar in Consumer Behavior (1 hour)**
  
  - MKT 8413 Seminar in Consumer Behavior

- **Cognitive Psychology Integration (CPI) (3 hours from the following)**
  
  - PSY 6423 Sensation and Perception
  - PSY 6733 Memory

- **Language and Thought (3 hours required)**
  
  - 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

- **Psychology of Aging (3 hours)**
  
  - PSY 6983 Psychology of Aging

- **Industrial Psychology (3 hours)**
  
  - PSY 6523 Industrial Psychology

- **Natural Language Processing (3 hours)**
  
  - CSE 8633 Natural Language Processing

- **Natural Networks in Optimization (3 hours)**
  
  - CSE 8663 Neural Computing

- **Artificial Intelligence in Manufacturing (3 hours)**
  
  - IE 8343 Artificial Intelligence in Manufacturing

- **Natural Networks in Optimization (3 hours)**
  
  - IE 8783 Natural Networks in Optimization

- **Other (29 hours)**
  
  - PSY 8731 Applied Cognitive Science Research Seminar (8 hours; taken during fall and spring seminars)

- **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.

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 6123/CSE 6673, 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/PSY 8703, AN 6623/SO 6623, AN 6633, EN 6663, CSE 6663, CSE 8663, CSE 8653, CSE 8663, PSY 6613, PSY 6643, PSY 6713, PSY 6733, PSY 6753, PSY 8990 (with approval), IE 6113, IE 8113, IE 8153, IE 8343, IE 8990 (with approval), ECE 6713, ECE 6813, CSE 6633, CSE 6663, EN 6663/AN 6663/SO 6663, AN 6623/SO 6623, CSE 6633, CSE 6663, CSE 8653, CSE 8663, CSE 8673, CSE 8990 (with approval), IE 6113, IE 8113, IE 8343, IE 8990 (with approval), ECE 6713, ECE 6813, ECE 8443, ECE 8463.

### Graduate Courses—Course prerequisites are noted in parentheses:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>PSY 6103</td>
<td>Psychometrics (PSY 3104)</td>
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<tr>
<td>PSY 6123</td>
<td>Quantitative Techniques in Psychology Using Computers (PSY 3104 or equivalent and consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>PSY 6223</td>
<td>Drug Use and Abuse (PSY 1013)</td>
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<td>PSY 6353</td>
<td>Psychology and the Law (PSY 1013 and junior standing)</td>
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<td>PSY 6373</td>
<td>Forensic Psychology (PSY 1013 and junior standing)</td>
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<tr>
<td>PSY 6403</td>
<td>Biological Psychology (PSY 1013)</td>
<td>3 hours</td>
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<tr>
<td>PSY 6423</td>
<td>Sensation and Perception (PSY 1013, PSY 4403)</td>
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<td>PSY 6523</td>
<td>Industrial Psychology (PSY 1013)</td>
<td>3 hours</td>
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<tr>
<td>PSY 6643</td>
<td>Social Cognition (PSY 4623 or consent of instructor)</td>
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<td>PSY 6653</td>
<td>Cognitive Science (CS 4633/6633 or PSY 4713 or PHI 4143/6143 or AN 4623/6623 or EN 4403/6403)</td>
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<td>Language and Thought</td>
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<td>PSY 6733</td>
<td>Memory (PSY 1013)</td>
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<td>PSY 6743</td>
<td>Psychology of Human-Computer Interaction (PSY 3713 or CS 4663/6663 or IE 4113/6113 of consent of instructor)</td>
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<td>PSY 6753</td>
<td>Applied Cognitive Psychology (PSY 3713 or IE 4113 or consent of instructor)</td>
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<td>Seminar in Psychology (PSY 1013)</td>
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<td>PSY 6983</td>
<td>Psychology of Aging (PSY 1013)</td>
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<td>Special Topics in Psychology</td>
<td>1-9 hours</td>
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<td>PSY 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
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<td>PSY 8111-8151</td>
<td>Scientist-Practitioner Applications (Consent of instructor)</td>
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<td>Quantitative Methods in Psychology II (PSY 3104)</td>
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<td>Systems and Theories of Psychology (PSY 4323)</td>
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<td>Psychopathology (PSY 3213)</td>
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<td>Systems of Psychotherapy (Consent of instructor)</td>
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<td>Intelligence Testing (Consent of instructor)</td>
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<td>Child Psychopathology and Treatment of Childhood Disorders (PSY 3213)</td>
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<td>PSY 8383</td>
<td>Behavior Therapy (Consent of instructor)</td>
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<td>PSY 8403-8413</td>
<td>Seminar (Consent of department head required of all non-psychology students)</td>
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<td>PSY 8454-8464</td>
<td>Professional Practicum (Departmental consent)</td>
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<td>PSY 8513</td>
<td>Psychological Research (PSY 4313)</td>
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<td>PSY 8533</td>
<td>Introduction to Clinical Practicum in Psychology (Consent of instructor)</td>
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<td>PSY 8573</td>
<td>Psychopharmacology (PSY 4403 and PSY 8323)</td>
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<td>PSY 8613</td>
<td>Advanced Social Psychology (PSY 4623)</td>
<td>3 hours</td>
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<tr>
<td>PSY 8713</td>
<td>Issues and Methods in Cognitive Psychology (Graduate standing)</td>
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<td>Cognitive Skills Models (Graduate standing) [Same as CSE 8613]</td>
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<td>Applied Cognitive Science Research Seminar</td>
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<td>PSY 8803</td>
<td>Advanced Quantitative Methods for Industrial/Organizational and General Psychology (PSY 8214)</td>
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<td>PSY 8990</td>
<td>Special Topics in Psychology</td>
<td>1-9 hours</td>
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<tr>
<td>PSY 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>
</tbody>
</table>
**Sociology**  
Dr. Lynne Cossman, Department Head  
Dr. Nicole Rader, Graduate Coordinator  
207 Bowen Hall  
Box C  
Mississippi State, MS 39762  
Telephone: 662-325-2495  
E-mail: sociology@soc.msstate.edu  
Website: http://www.sociology.msstate.edu/  

This department has graduate programs leading to the Master of Science and Doctor of Philosophy degrees in sociology.

### Admission Criteria

An applicant is required to have completed prerequisite undergraduate courses in statistics, sociological theory, and sociological methodology. The applicant must submit 1) a completed application form for graduate study at MSU; 2) official transcripts from previous institutions; 3) a GPA of 3.00 on the last two years of baccalaureate work; 4) an academic writing sample in English [a sample of the student's choice]; 5) General Graduate Records Examination [GRE] scores; 6) three letters of recommendation [from people who know the student's academic abilities and potential]; 7) a statement of purpose [explaining why the student wishes to study Sociology and the program at MSU and how the program at MSU will assist the student in attaining goals].

### Provisional Admission

A student who has not fully met the requirements stipulated by the University and the Sociology program for admission may be granted admission as a degree-seeking graduate student with provisional status. The student must have as his or her initial objective advancement to regular status. The provisional student must receive a 3.00 GPA on the first 9 hours of graduate-level courses on the program of study taken at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement) in order to achieve regular status. If a 3.00 is not attained, the provisional student will be dismissed from graduate study. While in the provisional status, students are not eligible to hold a graduate assistantship.

### Program of Study

A student seeking a Master of Science degree in Sociology may select either a thesis or non-thesis option. A student contemplating entry into a Ph.D. program upon completion of the M.S. must select the thesis option. Required courses for both the thesis and non-thesis M.S. programs include SO 8103 Graduate Sociological Theory I, SO 8213 Graduate Research Design, SO 8274 Graduate Social Statistics I, and SO 8203 Data Management in the Social Sciences. A student selecting the thesis option is required to complete a minimum of 24 hours of coursework with at least half of the courses at the 8000 level or above plus 6 hours of thesis research/thesis. A student selecting the non-thesis option must complete a minimum of 36 hours of coursework with at least 15 hours at the 8000 level.

Minimum requirements for the Ph.D. degree include 24 hours of coursework in sociological tools (theory, methods, and statistics), 9 hours of coursework in general sociology, 15 hours of coursework in an area of specialization, 9 additional hours of electives, and 20 hours of dissertation research. After completing a sequence of six courses (SO 8203 Data Management in the Social Sciences, SO 8213 Graduate Research Design, SO 8103 Graduate Sociological Theory I, SO 8113 Graduate Sociological Theory II, SO 8274 Graduate Social Statistics I, and SO 8284 Graduate Social Statistics II) a Ph.D. student is required to pass a Ph.D. qualifying examination in the areas of theory, methods, and statistics. The student typically takes the qualifying exam during the third or fourth semester of study. After completing all coursework, the student takes a comprehensive preliminary examination in the area of specialization. Areas of specialization include (1) Social Demography; (2) Criminology/Social Disorganizational/Criminal Justice; (3) Rural Sociology/Social Change and Development; and (4) Social Inequality and Stratification.

Graduate minors in Sociology must complete 12 hours of graduate courses in sociology and pass a written examination prepared by the minor professor. A minor committee member must serve on the student’s graduate committee.

### Academic Performance

Continuous enrollment in the M.S. program in Sociology is dependent upon a satisfactory evaluation of academic performance and progress toward completion of the degree. Unsatisfactory performance will result in dismissal from the program. A student’s performance is deemed unsatisfactory if one or more of the following occurs:

- 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

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 graduate coordinator and/or the student’s major advisor. If a student’s performance borders on unsatisfactory or if a student is not making timely progress, he or she will be formally notified of the situation and advised accordingly.

**M.S. Completion Requirements**

Upon the completion of coursework for a student’s program of study, a student in the master’s thesis option program must defend a thesis proposal. Once the thesis proposal is accepted by the student’s thesis committee, the student may proceed to carry out the thesis research in close consultation with his or her thesis committee. After the thesis committee unanimously agrees that the thesis is defensible the student must pass a public defense of the thesis. A master’s-thesis option student must enroll for a minimum of 6 thesis research/thesis hours.

A student in the master’s non-thesis option program must take an exit examination. The non-thesis exit examination may be taken during the semester that all coursework for a student’s program of study is completed or the semester immediately following completion of the coursework. The non-thesis exit examination is a five hour, in-class exam which covers social theory, social research methods and statistic, and general sociology.

**Ph.D. Completion Requirements**

After the completion of coursework for a student’s program of study, the successful completion of the Ph.D. Qualifying examination, and the Ph.D. Preliminary examination, a student is admitted into doctoral candidacy. A doctoral candidate must defend a dissertation proposal. Once the dissertation proposal is accepted by the student’s dissertation committee, the candidate may proceed to conduct dissertation research in close consultation with his or her dissertation committee. After the dissertation committee unanimously agrees that the dissertation is defensible, the candidate must pass a public defense of the dissertation. Additionally, the doctoral candidates must enroll for a minimum of 20 dissertation research/dissertation hours.

**NOTE:** Thesis and dissertation research are subject to review and approval by the University’s Institutional Review Board (IRB).

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

- SO 6113 Social Organization and Change. 3 hours
- SO 6123 Poverty Analysis: People, Organizations and Programs. 3 hours
- SO 6173 Environment and Society. 3 hours
- SO 6203 The Family in the United States. 3 hours
- SO 6223 Comparative Family Systems. 3 hours
- SO 6233 Juvenile Delinquency. 3 hours
- SO 6243 Drugs, Crime and Control. 3 hours
- SO 6253 White Collar Crime and Elite Deviance. 3 hours
- SO 6273 Sociology of Education. 3 hours
- SO 6303 Urban Sociology. 3 hours
- SO 6323 Victimization. 3 hours
- SO 6333 Sociology of Sport. 3 hours
- SO 6403 Sociology of Gender. 3 hours
- SO 6413 Aging and Retirement in American Society. 3 hours
- SO 6423 Health and Society. 3 hours
- SO 6433 Sociology of Death and Dying. 3 hours
- SO 6513 Correctional Systems. 3 hours
- SO 6523 Law and Society. 3 hours
- SO 6623 Language and Culture. 3 hours
- SO 6633 Sociolinguistics. 3 hours
- SO 6703 Population Problems and Processes. 3 hours
- SO 6713 Methods in Population Research. 3 hours
- SO 6733 Community: Organization and Relationships. 3 hours
- SO 6990 Special Topics in Sociology. 1-9 hours
- SO 7000* Directed Individual Study. 1-6 hours
- SO 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
- SO 8103 Graduate Social Theory I. 3 hours
- SO 8113 Graduate Social Theory II. 3 hours
- SO 8213 Research Design. 3 hours
- SO 8223 Advanced Quantitative Analysis (SO 8213). 3 hours
- SO 8233 Qualitative Analysis (SO 8213). 3 hours
- SO 8243 Spatial Analysis of Social Data. 3 hours
- SO 8274 Graduate Social Statistics I (ST 2113 or equivalent). 4 hours
- SO 8284 Graduate Social Statistics II (SO 8274). 4 hours
- SO 8293 Structural Equations Modeling with Latent Variables in Sociology. 3 hours
- SO 8323 Strategies and Tactics of Planned Change. 3 hours
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/

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. Following the description of individual programs, an overview of each department is presented along with the specific courses offered by the faculty in each one.

DOCTORAL PROGRAMS

The College of Business offers the following two doctoral programs:

- PhD in Business Administration with majors in Accounting, Business Information Systems, Finance, Management, and Marketing;
- PhD in Applied Economics

Doctor of Philosophy in Business Administration

Dr. Jason Lueg, Interim Graduate Coordinator
Office of Graduate Studies in Business
200 McCool Hall
Box 5288
Mississippi State, MS 39762
Telephone: 662-325-1891
E-mail: gsb@cobilan.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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Business Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>Business Statistics</td>
<td>6</td>
</tr>
<tr>
<td>Calculus</td>
<td>3</td>
</tr>
<tr>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Accounting</td>
<td>6</td>
</tr>
<tr>
<td>Principles of Economics</td>
<td>6</td>
</tr>
<tr>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Production Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduate Committee
Each student’s course of study and research is directed by a committee of graduate faculty called a graduate committee. A graduate committee must contain at least five members, all of whom must be members of the graduate faculty. The graduate committee that works with the student through the 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.

Program Requirements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Prerequisite Courses</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Management</td>
<td>3 hours</td>
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<td>Production</td>
<td>3 hours</td>
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<tr>
<td>Finance</td>
<td>3 hours</td>
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<td>Operations</td>
<td>3 hours</td>
<td>3 hours</td>
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<tr>
<td>Administration</td>
<td>3 hours</td>
<td>3 hours</td>
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</table>

In addition to the requirements above, all students must complete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Accounting</td>
<td>6</td>
</tr>
<tr>
<td>Principles of Economics</td>
<td>6</td>
</tr>
<tr>
<td>Business Computer Systems</td>
<td>3</td>
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<tr>
<td>Business Finance</td>
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<td>3</td>
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<td>Principles of Marketing</td>
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<tr>
<td>Production Management</td>
<td>3</td>
</tr>
</tbody>
</table>
Dissertation Committee
The graduate committee formed following a successful comprehensive examination is the student’s dissertation committee. The base requirements in constituting the committee are as follows: all members must be on the graduate faculty; three members, one of whom is the chairman and must be a Level I member of the graduate faculty, are from the concentration; one member from the support area or minor; and the remaining members from areas germane to the dissertation. One member of the committee, who may or may not be the chairman, is designated as the dissertation director. This committee is charged with approval of the dissertation topic proposal and administering and grading of the final defense of the dissertation.

✅ Dissertation Sub-Committee—The sub-committee is composed of the dissertation director and two other members from the graduate dissertation committee. While all members of the dissertation committee should be viewed as resources available to the student, the sub-committee is the group that will work actively with the student throughout the dissertation process. The members of the dissertation sub-committee are referred to as active members and for this reason the sub-committee is often referred to as the active committee.

✅ Dissertation Readers—Members of the graduate dissertation committee who are not part of the dissertation sub-committee are referred to as readers.

Program of Graduate Study
The doctoral degree is awarded based on the demonstration of mature scholarship and ability to conduct meaningful and independent research. The degree is not granted as a result of taking a given set of courses or earning a given number of credit hours. While formal coursework is important, the specific courses and number of hours required will vary for different students. Thus, there is not a total number of courses or hours that will satisfy the degree requirements uniformly for all students. The coursework required for each student is based on: the student’s ability to demonstrate to the graduate faculty a thorough grasp of the fields selected; the student’s particular interests with regard to teaching and research; and the student’s ability to conduct meaningful and independent research. A minimum of 36 credit hours must be taken in the student’s program at MSU.

The proposed program of graduate study is specified by the student’s graduate program committee in consultation with the student. During the first semester of enrollment, a proposed program of graduate study, approved by the graduate program committee, is to be submitted to the Office of Graduate Studies in Business for approval. A copy of the fully approved program of graduate study will be provided to the student and each individual whose signature appears on it. The student’s signature is required on the program of study. The program at a minimum consists of a designated 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 support area, this requirement will increase by 3 to
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.

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](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 NSU requirements for satisfactory progress in a Ph.D. program will be applied.

**Time Limit**
A student in a Ph.D. doctoral program must complete the program within a period of five years after passing the Preliminary/Comprehensive Examination.

**For More Information**—For more information about the Ph.D. program in Business or application materials, address inquiries to: Director, Graduate Studies in Business, PO Drawer 5288, Mississippi State, MS 39762; or call 662-325-1891. Fax: 662-325-8161; e-mail: gsb@cobilan.msstate.edu.
The Ph.D. in Applied Economics is a cooperative program offered by the graduate economics faculty of the College of Business and the Agricultural Economics faculty of the College of Agricultural and Life Sciences. The program provides advanced training in economic science to prepare graduates for research and teaching positions in academia, government, and business.

**Admission Criteria**

To obtain regular admission status, an applicant must meet all University-wide graduate admission requirements and must achieve acceptable scores on each section of the GRE (verbal, quantitative, and analytical). An international applicant not holding a prior degree from a U.S. institution must submit an indicator of English proficiency including one of the following: 1) A TOEFL score of 575 PBT (233 CBT or 84 iBT) or 2) An IELTS score of 7.0. Other indicators of English proficiency may be considered on a case by case basis.

A student must have previously completed intermediate microeconomics, intermediate macroeconomics, differential and integral calculus, and one semester of statistics before beginning the required course sequence. Applications are reviewed in the spring semester for enrollment in the following fall semester. 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 Public Accountancy
- Master of Taxation
- Master of Science in Information Systems

Master of Arts in Economics
Dr. Mike Highfield, Department Head
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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 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
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Websites:
http://www.business.msstate.edu/gsb/mba.p hp
http://www.distance.msstate.edu/mba

The College of Business offers the general M.B.A. degree as well as the M.B.A. with a concentration in Project Management. Both of the programs are offered on the Starkville campus as well as online. The M.B.A. program prepares students for successful careers in the business world by providing
1) in-depth knowledge of the business world including awareness of current business trends and challenges posed by the rapidly changing global economy and understanding of the ethical and social responsibilities of business;
2) enhanced skills in speaking and writing effectively, analyzing data and synthesizing information, working effectively with individuals and teams, utilizing technologies to support and communicate decisions, and making and recognizing well-reasoned decisions;
3) the ability to integrate acquired business knowledge in order to present and defend appropriate solutions to challenging business dilemmas and demonstrate effective leadership skills in a business setting.

Admission

An applicant for the M.B.A. program should hold a bachelor’s degree from a fully recognized four-year institution of higher learning that enjoys unconditional accreditation by appropriate regional accrediting agencies. All general requirements stated in this publication must be met.

An applicant for the M.B.A. program must take the Graduate Management Admission Test (GMAT). Admission to the M.B.A. program requires a competitive GPA and a competitive GMAT 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

http://www.business.msstate.edu/gsb/mba.php
http://www.distance.msstate.edu/mba
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 8153</td>
<td>Strategic Marketing Management</td>
<td>3 hours</td>
</tr>
<tr>
<td>BQA 8233</td>
<td>Quantitative Analysis and Business Research</td>
<td>3 hours</td>
</tr>
<tr>
<td>MGT 8111</td>
<td>Human Resource Issues</td>
<td>1 hour</td>
</tr>
<tr>
<td>MGT 8112</td>
<td>Leadership Skills for Managerial Behavior</td>
<td>2 hours</td>
</tr>
<tr>
<td>MGT 8123</td>
<td>Strategic Business Consulting Project</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

**Electives**—The remaining 6 hours are selected with the advice and consent of the candidate’s advisor.

**Minor**—A minor may be obtained by taking 9 hours of coursework in an approved discipline.

**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**
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The objective of the Master of Professional Accountancy (M.P.A.) program is to further the student’s education in business and accounting while preparing for a professional career in accountancy. The accountancy program is accredited by AACSB International, the Association to Advance Collegiate Schools of Business, as part of the overall accreditation of the College of Business, as well as the separate and additional accreditation of accounting programs at both the graduate and undergraduate levels.

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

**International Applicant**—An international applicant not holding a prior degree from a U.S. institution must submit an indicator of English proficiency including one of the following: 1) A TOEFL score of
575 PBT (233 CBT or 84 iBT) or 2) an IELTS score of 7.0. Other indicators of English proficiency may be considered on a case by case basis.

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the school for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. A provisional student must receive a 3.00 GPA on the first 9 hours of graduate-level courses on the program of study taken at Mississippi State University in order to achieve regular status. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 3003</td>
<td>Accounting Systems I. 3 hours</td>
</tr>
<tr>
<td>ACC 3013</td>
<td>Cost Accounting. 3 hours</td>
</tr>
<tr>
<td>ACC 3023</td>
<td>Intermediate Accounting I. 3 hours</td>
</tr>
<tr>
<td>ACC 3033</td>
<td>Intermediate Accounting II. 3 hours</td>
</tr>
<tr>
<td>ACC 4013</td>
<td>Income Tax I. 3 hours</td>
</tr>
<tr>
<td>ACC 4033</td>
<td>Auditing. 3 hours</td>
</tr>
<tr>
<td>EC 2113</td>
<td>Principles of Macroeconomics. 3 hours</td>
</tr>
<tr>
<td>EC 2123</td>
<td>Principles of Microeconomics. 3 hours</td>
</tr>
<tr>
<td>FIN 3123</td>
<td>Financial Management. 3 hours</td>
</tr>
<tr>
<td>BL 2413</td>
<td>Legal Environment of Business. 3 hours</td>
</tr>
<tr>
<td></td>
<td>Computer Literacy</td>
</tr>
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<td></td>
<td>Written Communication Skills</td>
</tr>
</tbody>
</table>

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

Program of Study
The candidate must complete 30 hours of coursework at the graduate level beyond any prerequisite courses. As prescribed below, this program is composed of 21 hours of accounting coursework and 9 hours of other business courses.

Required Accounting Courses (15 hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 6023</td>
<td>Advanced Accounting (if not taken as</td>
</tr>
<tr>
<td></td>
<td>undergraduate). 3 hours</td>
</tr>
<tr>
<td>ACC 6063</td>
<td>Income Tax II (if not taken as an</td>
</tr>
<tr>
<td></td>
<td>undergraduate). 3 hours</td>
</tr>
<tr>
<td>ACC 8023</td>
<td>Advanced Managerial Accounting. 3 hours</td>
</tr>
<tr>
<td>ACC 8013</td>
<td>Seminar in Financial Accounting Theory.</td>
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<td></td>
<td>3 hours</td>
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</table>

Accounting Electives (6 hours from the following courses):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ACC 8033</td>
<td>Business Assurance Services. 3 hours</td>
</tr>
<tr>
<td>ACC 6043</td>
<td>Municipal and Government Accounting</td>
</tr>
<tr>
<td></td>
<td>(if not taken as an undergraduate). 3 hours</td>
</tr>
<tr>
<td>ACC 6053</td>
<td>International Accounting. 3 hours</td>
</tr>
<tr>
<td>ACC 8043</td>
<td>Fraud Examination. 3 hours</td>
</tr>
<tr>
<td>ACC 8053</td>
<td>Professional Accounting Policy and Research. 3 hours</td>
</tr>
<tr>
<td>ACC 8063</td>
<td>Research in Tax Practice and Procedures. 3 hours</td>
</tr>
<tr>
<td>ACC 8073</td>
<td>Taxation of Corporations and Shareholders. 3 hours</td>
</tr>
<tr>
<td>ACC 8093</td>
<td>Taxation of Partnerships, S Corporations, 3 hours</td>
</tr>
<tr>
<td>ACC 8113</td>
<td>Advanced Individual Taxation and Wealth</td>
</tr>
<tr>
<td></td>
<td>Management. 3 hours</td>
</tr>
<tr>
<td>ACC 8123</td>
<td>Tax Topics. 3 hours</td>
</tr>
</tbody>
</table>

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

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

Concentration in Systems—In lieu of 9 hours of accounting and business electives, a student may elect a concentration in systems by selecting the three courses below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 8043</td>
<td>Fraud Examination. 3 hours</td>
</tr>
<tr>
<td>BIS 8213*</td>
<td>Advanced Systems Analysis and Design. 3</td>
</tr>
<tr>
<td></td>
<td>hours</td>
</tr>
<tr>
<td>BIS 8313</td>
<td>Advanced Database Design Administration. 3 hours</td>
</tr>
</tbody>
</table>

*Programming prerequisites may be required.

Academic Performance
A grade of C or better is required on all undergraduate prerequisite courses. A student in any graduate degree program in the College of Business may not continue with grades below B in more than 6 hours of program coursework, regardless of the overall average. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on program coursework. In addition, the normal MSU requirements for satisfactory progress in a graduate program will be applied.

Completion Requirements
1. A student must complete the required curriculum and a minimum of 30 graduate semester hours.
2. A student must have no more than 6 hours of C grades on program coursework.
3. A student must achieve a 3.00/4.00 GPA on graduate accounting work attempted.
4. A student must achieve a 3.00/4.00 GPA on all graduate work attempted at MSU after being admitted to the degree program.
5. A student must pass an end-of-program examination or other evaluation.

Master of Taxation
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The primary objective of the Master of Taxation (M.TX.) program is to further the student’s education in business and accounting with an emphasis in taxation while preparing for a professional career in accounting and taxation.

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

International Applicant—An international applicant not holding a prior degree from a U.S. Institution must submit an indicator of English proficiency including one of the following: 1) A TOEFL score of 575 PBT (233 CBT or 84 iBT) or 2) an IELTS score of 7.0. Other indicators of English proficiency may be considered on a case by case basis.

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the school for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. A provisional student must receive a 3.00 GPA on the first 9 hours of graduate-level courses on the program of study taken at Mississippi State University in order to achieve regular status. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

Prerequisite Courses
The prerequisites listed below, or their equivalent, must be completed either before or during graduate coursework. A complete transcript evaluation will be more specific in individual cases.
ACC 3023 Intermediate Accounting I. 3 hours
ACC 3033 Intermediate Accounting II. 3 hours
ACC 4013 Income Tax I. 3 hours
ACC 4033 Auditing. 3 hours
EC 2113 Principles of Macroeconomics. 3 hours
EC 2123 Principles of Microeconomics. 3 hours
FIN 3123 Financial Management. 3 hours
BL 2413 Legal Environment of Business. 3 hours
ACC 3003 Accounting Information Systems I. 3 hours
ACC 3013 Cost Accounting. 3 hours
Computer Literacy
Written Communication Skills

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

Program of Study
A candidate must complete 30 hours of coursework at the graduate level including a core of 15 hours of taxation, as described below. At least 21 of the 30 hours must be taken from courses offered exclusively for graduate credit (8000 level).

Required Tax Courses (15 hours):
ACC 8063 Research in Tax Practice and Procedures. 3 hours
ACC 8073 Taxation of Corporations and Shareholders. 3 hours
ACC 8113 Advanced Individual Tax and Wealth Management. 3 hours
ACC 8093 Federal Taxation of Partnerships, Corporations, Trusts, and Estates. 3 hours
Elective-any 8000-level taxation course. 3 hours

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

Electives (9 hours):
Graduate-level Business or Accounting courses

NOTE: No more than 9 hours of coursework in the 30-hour program may be at the 6000 level.

Academic Performance
A grade of C or better is required on all undergraduate prerequisite courses. A student in any...
graduate degree program in the College of Business may not continue with grades below B in more than 6 hours of program coursework, regardless of the overall average. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on program coursework. In addition, the normal MSU requirements for satisfactory progress in a graduate program will be applied.

**Completion Requirements**

1. A student must complete the required curriculum and a minimum of 30 graduate semester hours.
2. A student must have no more than 6 hours of C grades on program coursework.
3. A student must achieve a 3.00/4.00 GPA on graduate accounting work attempted.
4. A student must achieve a 3.00/4.00 GPA on all graduate work attempted at MSU after being admitted to the degree program.
5. A student must pass an end-of-program examination or other evaluation.

Consult the Director, Adkerson School of Accountancy, Box EF, Mississippi State, MS 39762 for further information or E-mail: sac@cobilan.msstate.edu.

**Master of Science in Information Systems**

Dr. Tim Barnett, Department Head  
Dr. Jason Lueg, Interim Graduate Coordinator  
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Telephone: 662-325-3928  
E-mail: gsb@cobilan.msstate.edu

The mission of the Management and Information Systems program at MSU is to prepare students to become information systems professionals who can successfully develop, acquire, and integrate information technology across levels and functions of a firm in the continually changing global business environment by: equipping students with critical technical skills; strengthening communication skills; enhancing the students’ understanding of business functions/operations; developing professional attitudes; and enhancing the students’ understanding of the link between an organization and information technology.

**Admission Criteria**

The applicant for the M.S.I.S. program must have a grade point average of 3.00/4.00 or higher over the last 60 hours of undergraduate coursework and a score of 500 on the GMAT (Graduate Management Admission Test) or a combined score of 1100 using the formula (200xGPA+GMAT). When a student is deficient in one of the criteria cited, the student’s application may still be considered based on the strength of other materials contained in the student’s application. However, reasonable minimum levels must be achieved in both the applicant’s GPA and GMAT scores.

**International Applicants**—An international applicant not holding a prior degree from a U.S. Institution must submit an indicator of English proficiency including one of the following: 1) A TOEFL score of 575 PBT (233 CBT or 84 iBT) or 2) an IELTS score of 7.0. Other indicators of English proficiency may be considered on a case by case basis.

**Provisional Admission**—Following University guidelines, a student who is admitted provisionally to this program must receive a 3.00 GPA on the first 9 hours of graduate-level courses on the program of study taken at MSU following admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If the 3.00 is not attained, the provisional student may be dismissed from graduate study.

In addition, students must complete the foundation courses listed below or have equivalent undergraduate credit. The College of Business now offers graduate survey courses in place of most undergraduate prerequisites. These are especially designed for non-business undergraduates and may be taken before or during the M.S.I.S. program.

**Foundation Course Replaces**

- **Survey of Accounting**  
  Prin. of Financial Acc  
  & Prin. of Managerial Acc  
- **Survey of Statistics**  
  Business Statistical Methods I & II  
- **Survey of Management**  
  Prin. of Management & Production Management  
- **Survey of Economics**  
  Prin. of Macroeconomics & Microeconomics  
- **Survey of Finance**  
  Financial Management  
- **Survey of Marketing**  
  Principles of Marketing
Examples of prerequisite classes that would fit the programming requirement include BIS 1733, BIS 1753, BIS 3733, CS 1233, CS 1253, and CS 1314. Note that these are just examples; any 6 hours of programming will be allowed.

Core Course Requirements
A student must complete a minimum of 30 hours of coursework at the graduate level. No more than 6 hours may be below the 8000 level. The M.S.I.S. degree requires 17 hours of required BIS courses and at least two BIS electives, plus free electives. Three hours of programming courses must be completed either before or in conjunction with the following.

BIS Required Courses:
- BIS 8112 Management of Information Technology and Systems. 2 hours
- BIS 8213 Advanced Systems Analysis and Design. 3 hours
- BIS 8313 Advanced Database Design Administration. 3 hours
- BIS 8513 Business Telecommunications. 3 hours
- BIS 8613 MIS Administration. 3 hours
- 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
- BIX 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.
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**

**Dr. Mike Highfield, Department Head**

**Dr. Randy Campbell, Graduate Coordinator (Economics)**

**Dr. Kenneth Roskelley, Graduate Coordinator (Finance)**

312 McCool Hall
Box 9580
Mississippi State, MS 39762
Telephone: 662-325-3928
E-mail: mhhighfield@cobilan.msstate.edu

The Department of Finance and Economics offers the following graduate degrees through the college of Business:

- Master of Arts in Economics
- Doctor of Philosophy in Business Administration with a concentration in Finance
- Doctor of Philosophy in Applied Economics

The department also participates in the interdisciplinary Master of Business Administration (MBA) program. See the College of Business Administration section of this publication for MBA and PhD information.

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

**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 6313  Introduction to Regional Economic Development (EC 2113, EC 2123, and MA 1463 or consent of instructor). 3 hours
EC 6323  International Economic Relations (EC 2113 and EC 2123). 3 hours
EC 6333  Applied Regional Economics Development (EC 4313/6313). 3 hours
EC 6423  Introduction to Public Finance (EC 2113 and EC 2123). 3 hours
EC 6433  Problems in State and Local Finance (EC 2113 and EC 2123). 3 hours
EC 6523  History of Economic Thought (EC 2113 or consent of instructor). 3 hours
EC 6990  Special Topics in Economics. 1-9 hours
EC 7000  Directed Individual Study. 3 hours
EC 8000  Thesis Research/Thesis. 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 8233  Advanced Financial Management (FIN 8113 or equivalent). 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
FIN 9233  Seminar in Corporate Finance (FIN 8233 or equivalent). 3 hours
FIN 9433  Seminar in Portfolio Theory (FIN 8423). 3 hours
FIN 9733  Seminar in Financial Markets and Institutions (FIN 8733 or equivalent). 3 hours
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
Real Estate Finance:
REF 6233  Real Estate Law (BL 2413 or consent of instructor. [Same as BL 6233]). 3 hours
REF 6353  Income Property Appraisal (REM 3333 or consent of instructor). 3 hours
REF 6990  Special Topics in Real Estate and Mortgage Finance (Courses limited to two offerings under one title within two academic years). 1-9 hours
Management and Information Systems
Dr. Tim Barnett, Department Head
Dr. Jason Lueg, Interim Graduate Coordinator
3103 McCool Hall
Box 9581
Mississippi State, MS 39762
Telephone: 662-325-3928
E-mail: gsb@cobilan.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
MGT 8123 Strategic Business Consulting (BQA 8233, MKT 8153, EC 8103, ACC 8112, FIN 8113, MGT 8112). 3 hours
MGT 8513 Human Resource Management. 3 hours
MGT 8613 Managing in the Global Business Environment. 3 hours
MGT 8813 Organizational Behavior. 3 hours
MGT 8823 Organization Development (MGT 3113). 3 hours
MGT 8990 Special Topics in Management. 1-9 hours
MGT 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree
MGT 9143 Development of Management Theory (MGT 3113). 3 hours
MGT 9533 Seminar in Human Resource Management Literature. 3 hours
MGT 9613 Organization Theory and Practice (MGT 3113). 3 hours
MGT 9813 Seminar in Organizational Behavior. 3 hours
MGT 9913 Seminar in Strategy Formulation (Approval of instructor). 3 hours
MGT 9933 Seminar in Strategy Implementation (approval of instructor). 3 hours

Business Information Systems:
BIS 6113 BIS Security Management (BIS 3233 or grade of B or higher in any 3 hours of computer-related coursework). 3 hours
BIS 6513 Microcomputers/Networks (BIS 3523 or equivalent, or grade of B or higher in any 3 hours of computer-related coursework). 3 hours
BIS 6523 Advanced Languages II (BIS 3523 or equivalent, or grade of B or higher in any 3 hours of computer-related coursework). 3 hours
BIS 6533 Decision Support Systems (BIS 3233). 3 hours
BIS 6990 Special Topics in Business Information Systems. 1-9 hours
BIS 7000 Directed Individual Study. 3 hours
BIS 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
BIS 8112 Management Information Technology and Systems. 2 hours
BIS 8122 Multimedia Communication and Presentation. 2 hours
BIS 8213 Advanced Systems Analysis and Design (Prerequisite or co-requisite: BIS 8112 or any 3 hours of computer-related coursework). 3 hours
BIS 8313 Advanced Database Design Administration (3 hours of computer programming with a grade of B or better). 3 hours
BIS 8513 Business Telecommunications (Prerequisite or co-requisite BIS 8112 or equivalent). 3 hours
BIS 8613 MIS Administration (3 hours of programming and prerequisite or co-requisite BIS 8112). 3 hours
BIS 8753 Information Systems Collaborative Project (9 hours of graduate BIS coursework beyond 8112). 3 hours
BIS 8990 Special Topics in Business Information Systems. 3 hours
BIS 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree
BIS 9113 Management Information Systems (MIS) Seminar (BIS 8213, BIS 8313). 3 hours
BIS 9213 Advanced Topics in MIS Research (BIS 8213, BIS 8313, or consent of instructor). 3 hours

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### Marketing, Quantitative Analysis, and Business Law

**Dr. Jason Lueg, Department Head and Interim Graduate Coordinator**

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Mississippi State, MS 39762  
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E-mail: mqabl@cobilan.msstate.edu

The Department of Marketing, Quantitative Analysis, and Business Law cooperates in interdisciplinary programs leading to the Master of Business Administration degree (M.B.A.) as well as the Doctor of Philosophy (Ph.D.) in Business Administration with a concentration in Marketing. See the Business Administration section of this publication for descriptions of these programs.

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

#### Marketing:

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<tbody>
<tr>
<td>MKT 6143</td>
<td>Sales Management (MKT 3013 and MGT 3114)</td>
<td>3 hours</td>
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<tr>
<td>MKT 6213</td>
<td>Internet Marketing (MKT 3013 or MKT 8072)</td>
<td>3 hours</td>
</tr>
<tr>
<td>MKT 6233</td>
<td>Golf Operations Management (PGM major, MKT 3213, or permission of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>MKT 6313</td>
<td>Physical Distribution Management (BQA 2113 and MKT 3013)</td>
<td>3 hours</td>
</tr>
<tr>
<td>MKT 6990</td>
<td>Special Topics in Marketing. 1-9 hours</td>
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<tr>
<td>MKT 7000</td>
<td>Directed Individual Study. Hours to be arranged.</td>
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<td>MKT 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>MKT 8072</td>
<td>Survey of Marketing (Graduate standing; equivalent of concurrent enrollment). 2 hours</td>
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<tr>
<td>MKT 8153</td>
<td>Strategic Marketing Management (MKT 8072 or equivalent). 3 hours</td>
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<tr>
<td>MKT 8323</td>
<td>Problems in Marketing (MKT 8112). 3 hours</td>
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<tr>
<td>MKT 8333</td>
<td>Seminar in Marketing-Promotion and Distribution Strategies (MKT 8313). 3 hours</td>
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<td>MKT 8343</td>
<td>Seminar in Marketing-Pricing and Product Strategies (MKT 8313). 3 hours</td>
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<td>MKT 8413</td>
<td>Seminar on Consumer Behavior (MKT 8313). 3 hours</td>
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<td>BQA 6990</td>
<td>Special Topics in Business Statistics. 1-9 hours</td>
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<td>BQA 7000</td>
<td>Directed Individual Study. Hours and credits to be arranged.</td>
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<tr>
<td>BQA 8233</td>
<td>Quantitative Analysis and Business Research (MKT 3013 or MKT 8072 or equivalent; BQA 8443 or equivalent). 3 hours</td>
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<tr>
<td>BQA 8443</td>
<td>Statistical Analysis for Business Decision Making (Graduate standing and proficiency with spreadsheet software). 3 hours</td>
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<tr>
<td>BQA 8563</td>
<td>Business and Economic Forecasting (BQA 8443 or equivalent). 3 hours</td>
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<tr>
<td>BQA 8583</td>
<td>Quantitative Methods for Research in Business (BQA 8443). 3 hours</td>
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<tr>
<td>BQA 8990</td>
<td>Special Topics in Business Statistics. 1-9 hours</td>
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<tr>
<td>BQA 9333</td>
<td>Statistical Methods for Business (Doctoral student or permission of instructor). 3 hours</td>
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<tr>
<td>BQA 9533</td>
<td>Advanced Statistics for Business Decisions (BQA 8443). 3 hours</td>
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#### Business Law:

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<tr>
<td>BL 6233</td>
<td>Real Estate Law (BL 2413 or consent of instructor). 3 hours</td>
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<tr>
<td>BL 6243</td>
<td>Entrepreneur Law (BL 2413, MGT 3323, or consent of instructor). 3 hours</td>
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<td>BL 6263</td>
<td>Environmental Law. 3 hours</td>
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<tr>
<td>BL 6273</td>
<td>International Business Law. 3 hours</td>
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<tr>
<td>BL 6990</td>
<td>Special Topics in Business Law. 1-9 hours</td>
<td></td>
</tr>
<tr>
<td>BL 8112</td>
<td>Law, Business Ethics, and Dispute Resolution. 2 hours</td>
<td></td>
</tr>
<tr>
<td>BL 8990</td>
<td>Special Topic in Business Law. 1-9 hours</td>
<td></td>
</tr>
</tbody>
</table>

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
# Degree Programs

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

## Department of Counseling & Educational Psychology

### Master of Science
- Major: Counselor Education
- Concentrations:
  - Clinical Mental Health (T; NT) [1, 2]
  - Rehabilitation (T; NT) [1, 2]
  - Student Affairs in Higher Ed (NT) [1, 2]
  - School Counseling (NT) [1, 2]
  - College Counseling (NT) [1, 2]

### Master of Science
- Major: Educational Psychology
- Concentrations:
  - Gen Educ Psychology (T; NT) [1]
  - Psychometry (T; NT) [1]

### Educational Specialist
- Major: Education
- Concentrations:
  - Counselor Education (T; NT) [1, 2]
  - School Psychology (T; NT) [1]

### Doctor of Philosophy
- Major: Educational Psychology
- Concentrations:
  - Gen Educ Psychology (T; NT) [1, 2]
  - School Psychology (T; NT) [1]

### Doctor of Philosophy
- Major: College/Postsecondary Student Counseling & Personnel Services [1]

### Doctor of Philosophy
- Major: Counselor Education/Student Counseling & Guidance Services [1]

### Doctor of Philosophy
- Major: Educational Psychology [1]

## Department of Curriculum, Instruction, & Special Education

### Master of Arts in Teaching-Middle Level
- Major: Middle Level Alternate Route (NT) [5]

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

### Master of Science
- Major: Elementary Education (NT) [1, 2]
- Concentrations: Early Childhood Education (NT) [1, 2]
  - Middle Level Education (NT) [1, 2]

### Master of Science
- Major: Secondary Education (NT) [1, 2]

### Master of Science
- Major: Special Education (NT) [1]

### Educational Specialist
- Major: Education
- Concentrations:
  - Elementary Education (T; NT) [1, 2]
  - Secondary Education (T; NT) [1, 2]
  - Special Education (T; NT) [1]

### Doctor of Philosophy
- Major: Curriculum & Instruction [1]

## Department of Instructional Systems and Workforce Development

### Master of Science
- Major: Technology (T, NT) [1]

### Master of Science in Instructional Technology
- Major: Instructional Technology (NT) [1]

### Educational Specialist
- Major: Education
- Concentration: Technology (T; NT) [1]

### Doctor of Philosophy
- Major: Instructional Systems & Workforce Development [1]

## Department of Kinesiology

### Master of Science
- Major: Kinesiology
- Concentrations:
  - Exercise Physiology (T; NT) [1]
  - Sport Administration (T; NT) [1]
  - Sport Pedagogy (T; NT) [1]

## Department of Leadership & Foundations

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

### Master of Science
- Major: School Administration (NT) [1, 2]

### Master of Science
- Major: Workforce Education Leadership (NT) [5]
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 2.75 on the last 60 hours of undergraduate work. Satisfactory results of the Graduate Record Examination (GRE) taken within the past five years must be submitted.

A student accepted into the Ed.S. degree program with an 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.

Students admitted to a counseling program must maintain continuous enrollment. A student who is not enrolled or is inactive for one calendar year must be re-screened for readmission into the department prior to re-enrollment in the University (see the Readmission section under General Requirements for Admission in this publication).

Provisional Admission for Counseling Programs
A student who has not fully met the requirements stipulated by the University and the appropriate department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. Such student must have as his or her initial objective advancement to regular status. A provisional student must receive not less than a 3.00 GPA on the first 9 hours of graduate-level courses after provisional admission to a degree program at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement) in order to achieve regular status. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in provisional status, a student is not eligible to hold a graduate assistantship.

Satisfactory Academic Performance
A student in any of the counseling programs is required to earn a grade of B or better in each skills course before being permitted to progress to the next course in the sequence. These courses include: COE 8023 Counseling Theory; COE 8013 Counseling Skills; COE 8053/8150 Practicum; and COE 8730/8740 Internship. Unsatisfactory performance in graduate-level coursework is defined as a grade of U, D, or F in any course and/or more than two grades below a B after admission to the program. Unsatisfactory performance also includes failing the master’s comprehensive examination twice, failing the written doctoral preliminary/comprehensive examination twice, failing the oral doctoral preliminary/comprehensive examination twice, or failing the doctoral dissertation defense twice. Any of these or a combination of these failures will result in termination of the student’s graduate program in counseling.

Program of Study/Completion Requirements
The M.S. degree program in school counseling, rehabilitation counseling, or student affairs in higher education is a planned program consisting of 48 semester hours. The M.S. degree program in 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.

Prerequisite and Core Courses
All counseling students seeking the M.S. degree are required to complete successfully EPY 8263; COE 8013; COE 8023; COE 8043; COE 8053/8150; COE 8063; and COE 8730/8740 as a part of their degree programs. All students except those in rehabilitation counseling must also successfully complete COE 8203. Included in these requirements are a 100/600-clock hour practicum and a 600-clock hour internship.

- Students in the M.S. clinical mental health counseling concentration must also successfully complete COE 6903; COE 8073; COE 8203; COE 8303; COE 8633; COE 8703; either COE 8773 OR COE 8783; and COE 8803 with 12 hours of approved electives.
- Students in the M.S. rehabilitation counseling concentration must also successfully complete COE 6373; COE 8073; COE 8353; COE 8363; COE 8373; COE 8383, and 6 hours of approved electives.
- Students in the M.S. student affairs in higher education concentration must also successfully complete COE 8203; COE 8523; COE 8543; COE 8553; COE 8563; HED 8113; and 6 hours of approved electives.
- Students in the M.S. school counseling concentration must also complete COE 6903; COE 8203; COE 8073; COE 8903; COE 8923; and 3-6 hours of approved electives.
- Students in the college counseling concentration must also complete COE 8203; COE 8073; COE 8303; COE 8633; COE 8523; COE 8533; COE 8543; COE 8573; HED 8113; and 6 hours of approved electives.

During the Ed.S. degree program, all counseling students from a non-CACREP program will be required to complete all coursework that is required by MSU’s CACREP master’s program in counseling. These courses may be included in the student’s Ed.S. program of study. Students from an academic discipline that was not counseling in nature may be required to complete the equivalent of a master’s
degree as part of the Ed.S. program of study. All Ed.S. students will successfully complete EPY 6214 Educational Psychology Statistics (or equivalent statistics course); COE 7000 Directed Individual Study or COE 8000 Thesis Research, 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.

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.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>COE 6013</td>
<td>Facilitative Skills Development</td>
<td>3 hours</td>
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<tr>
<td>COE 6023</td>
<td>Introduction to Counseling</td>
<td>3 hours</td>
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<tr>
<td>COE 6050</td>
<td>Seminar for Guidance Counselors</td>
<td>1-3 hours</td>
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<tr>
<td>COE 6303</td>
<td>Rehabilitation of Visually Impaired Persons</td>
<td>3 hours</td>
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<tr>
<td>COE 6313</td>
<td>Resources for Visually Impaired Persons</td>
<td>3 hours</td>
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<tr>
<td>COE 6323</td>
<td>Sensory Aid Technology</td>
<td>3 hours</td>
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<tr>
<td>COE 6353</td>
<td>Assistive Technology in the Rehabilitation Process (COE 6393, COE 8373 or permission of instructor)</td>
<td>3 hours</td>
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<tr>
<td>COE 6363</td>
<td>Introduction to Sign Language</td>
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<tr>
<td>COE 6373</td>
<td>Vocational Assessment of Special Needs Persons (COE 8063 or equivalent) [Same as EDX 8653 and TKT 8653]</td>
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<td>COE 6383</td>
<td>Work Samples in Vocational Assessment (COE 8083 or equivalent)</td>
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<td>COE 6513</td>
<td>Paraprofessionals in Student Affairs (permission of instructor)</td>
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<td>COE 6713</td>
<td>Issues in Aging</td>
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<td>COE 6743</td>
<td>Gender Issues in Counseling</td>
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<td>COE 6903</td>
<td>Developmental Counseling and Mental Health</td>
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<td>Special Topics in Counselor Education</td>
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<td>COE 7000</td>
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<td>COE 8000</td>
<td>Thesis Research/Thesis</td>
<td>Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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<td>COE 8013</td>
<td>Counseling Skills Development (COE 8023)</td>
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<tr>
<td>COE 8023</td>
<td>Counseling Theory</td>
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<tr>
<td>COE 8043</td>
<td>Group Techniques and Procedures (COE 8013, 8023)</td>
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<td>COE 8053</td>
<td>Practicum (COE 8013, 8023, and permission of department)</td>
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<tr>
<td>COE 8063</td>
<td>Research Techniques for Counselors</td>
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<tr>
<td>COE 8073</td>
<td>Cultural Foundations in Counseling</td>
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<tr>
<td>COE 8083</td>
<td>Assessment Techniques for Counselors</td>
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<tr>
<td>COE 8093</td>
<td>Seminar in Counseling (COE 8023 or equivalent)</td>
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<tr>
<td>COE 8150</td>
<td>Supervised Academic Year Field Experience I: Practicum</td>
<td>1-9 hours</td>
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<td>COE 8163</td>
<td>Spirituality in Counseling</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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<tr>
<td>COE 8203</td>
<td>Placement and Career Development Counseling</td>
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<td>COE 8293</td>
<td>Supervised Project (permission of department)</td>
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<td>COE 8303</td>
<td>Family Counseling Theory (COE 8023)</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>
<td>Medical Aspects of Disability</td>
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<tr>
<td>COE 8383</td>
<td>Job Placement in Rehabilitation</td>
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<tr>
<td>COE 8393</td>
<td>Advanced Practicum (COE 8053 and permission of department)</td>
<td>3 hours</td>
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<tr>
<td>COE 8413</td>
<td>Personal, Social, and Work Adjustment Counseling</td>
<td>3 hours</td>
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<td>COE 8523</td>
<td>Student Development Theory</td>
<td>3 hours</td>
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<tr>
<td>COE 8533</td>
<td>Literature of Student Affairs</td>
<td>3 hours</td>
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<tr>
<td>COE 8543</td>
<td>Legal Issues</td>
<td>3 hours</td>
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<tr>
<td>COE 8553</td>
<td>Student Affairs in Higher Education</td>
<td>3 hours</td>
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<tr>
<td>COE 8563</td>
<td>Introduction to Assessment in Student Affairs</td>
<td>3 hours</td>
</tr>
<tr>
<td>COE 8573</td>
<td>College Counseling Services</td>
<td>3 hours</td>
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</table>
Concentration in General Educational Psychology

Within the Educational Psychology specialty, students can choose to specialize in either cognition, learning, and instruction, or measurement, statistics, and testing. For more information, write to Graduate Coordinator; Department of Counseling and Educational Psychology; PO Box 9727; Mississippi State, MS 39762.

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

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.

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 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.

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.

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.

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.

**Program of Study/Completion Requirements**

**Master of Science**
The program of study for the M.S. in Educational Psychology includes the following courses:

**Major Core (10 hours):**
EPY 6214 Educational and Psychological Statistics
EPY 8253 Child and Adolescent Development and Psychopathology (or equivalent)
EPY 8263 Psychological Testing in Educational and Related Settings

**General Educational Psychology Concentration (27-30 hours)**
EPY 8293 Cognitive Development
EPY 8223 Psychological Foundations of Education
EDF 8363 Functions and Methods of Research in Education
Cognitive elective (3 hours)**
EPY electives (9-12 hours)**
Related electives (9-12 hours)**
**See advisor

**Psychometry Concentration (33 hours)**
EPY 6113 Behavioral and Cognitive Behavioral Intervention
EPY 6123 Applications in School Psychology
EPY 6133 Data-based Decision Making for Interventions in the School Setting
EPY 8493 Personality Assessment in Educational and Related Settings
EPY 8690 Supervised Experiences in School Psychology (3 hours)
EPY 8703 Introduction to School Psychology
EPY 8723 Individual Assessment for Educational and Related Settings
EPY 8773 Academic Assessment and Interventions

**Doctor of Philosophy**
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)**
EPY 6214 Educational and Psychological Statistics
EPY 8113 History and Systems of Psychology
EPY 8214 Advanced Educational and Psychological Statistics
EPY 8253 Child and Adolescent Development and Psychopathology (or equivalent)
EPY 8263 Psychological Testing in Educational and Related Settings
EPY 8293 Cognitive Development (or equivalent)
EPY 8513 Psychometric Theory
EPY 9000 Dissertation (20 hours)
EPY 9213 Advanced Analysis in Educational Research
EPY 9723 Seminar in Contemporary School Psychology
EDF 9373 Educational Research Design
PSY 6403 Physiological Psychology (or equivalent)
PSY 8613 Advanced Social Psychology (or equivalent)

**General Educational Psychology Concentration (62 hours minimum)**
EPY 8523 Psychology of the Gifted
EPY 8533 Practicum in Teaching Educational Psychology
EPY 6613 Seminar in Educational Psychology
EDF 8353 Principles of Curriculum Development
EPY 9313 Educational Evaluation Methods
EPY 8223 Psychology of Education Foundations
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)

**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. students are required to complete and defend an approved supervised directed independent study and pass the PRAXIS II examination in school psychology (i.e., obtain a passing score as established by the Mississippi Department of Education).

**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)

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)

**Doctoral Minor in School Psychology**

A doctoral minor in School Psychology will constitute a minimum of 12 hours of coursework in the field of school psychology. The doctoral student will meet with the intended minor professor for an interview 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 being dropped 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>
<th>Notes</th>
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<tbody>
<tr>
<td>EPY 6113</td>
<td>Behavioral and Cognitive Behavioral Interventions</td>
<td>3</td>
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<tr>
<td>EPY 6133</td>
<td>Data-based Decision Making for Interventions in the School Setting (Not for EPY majors)</td>
<td>3</td>
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<tr>
<td>EPY 6123</td>
<td>Applications of School Psychology (Permission of instructor)</td>
<td>3</td>
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<tr>
<td>EPY 6214</td>
<td>Educational and Psychological Statistics.</td>
<td>4</td>
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<td>EPY 8113</td>
<td>History and Systems of Psychology.</td>
<td>3</td>
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<td>EPY 8123</td>
<td>Assessment of Infants, Toddlers, and Special Populations.</td>
<td>3</td>
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<td>EPY 8133</td>
<td>Crisis Prevention and Intervention in Schools and Related Settings.</td>
<td>3</td>
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<td>EPY 8214</td>
<td>Advanced Educational and Psychological Statistics.</td>
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<td>EPY 8253</td>
<td>Child and Adolescent Development and Psychopathology.</td>
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<td>Psychological Testing in Educational and Related Settings.</td>
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<td>EPY 8293</td>
<td>Cognitive Development (or equivalent).</td>
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<td>EPY 8473</td>
<td>Middle Level Assessment and Evaluation.</td>
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<td>EPY 8493</td>
<td>Child Behavior and Personality Assessment.</td>
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<td>EPY 8513</td>
<td>Psychometric Theory (EPY 6214, EPY 8214, EPY 8263 or equivalent).</td>
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<tr>
<td>EPY 8550</td>
<td>Supervised Experience in School Psychology. (hours vary)</td>
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<td>EPY 8690</td>
<td>Supervised Experiences in School Psychology I.</td>
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<td>EPY 8703</td>
<td>School Psychology.</td>
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<td>EPY 8723</td>
<td>Individual Assessment for Educational and Related Settings (EPY 8263 or equivalent and consent of instructor).</td>
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<td>EPY 8763</td>
<td>Advanced Behavioral and Cognitive-Behavioral Interventions (EPY 8703).</td>
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<td>EPY 8773</td>
<td>Assessment and Interventions for Academic Skills Deficits.</td>
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<td>EPY 8780</td>
<td>Internship in School Psychology (Ed.S. level), 12 hours</td>
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<td>EPY 8790</td>
<td>Supervised Experiences in School Psychology II.</td>
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<td>EPY 8890</td>
<td>Supervised Experiences in School Psychology III.</td>
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<td>EPY 8933</td>
<td>Integrated Psycho-Educational Assessment (EPY 8723).</td>
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<tr>
<td>EPY 8993</td>
<td>Special Topics in Educational Psychology.</td>
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</table>

### Educational Psychology Courses

Course prerequisites are noted in parentheses.

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<td>Application of Learning Theories in Educational and Related Settings.</td>
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<td>EPY 6053</td>
<td>Psychology and Education of the Mentally Retarded.</td>
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<td>EPY 6073</td>
<td>Personality Adjustment in Educational and Related Settings.</td>
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<td>Behavioral and Cognitive Behavioral Interventions.</td>
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<td>EPY 6214</td>
<td>Educational and Psychological statistics.</td>
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<td>EPY 6313</td>
<td>Measurement and Evaluation.</td>
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<td>EPY 6990</td>
<td>Special Topics in Educational Psychology.</td>
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<td>EPY 7000</td>
<td>Directed Individual Study.</td>
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<td>EPY 8214</td>
<td>Advanced Educational and Psychological Statistics (EPY 4214/6214 or equivalent).</td>
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<td>EPY 8223</td>
<td>Psychological Foundations of Education.</td>
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<td>EPY 8253</td>
<td>Advanced Child and Adolescent Development and Psychopathology.</td>
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<td>EPY 8263</td>
<td>Psychological Testing in Educational and Related Settings.</td>
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<td>Cognitive Development.</td>
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<td>Course Code</td>
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<tr>
<td>EPY 8473</td>
<td>Middle Level Assessment and Evaluation. 3 hours</td>
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<tr>
<td>EPY 8493</td>
<td>Personality Assessment in Educational and Related Settings (EPY 8263 and EPY 8723 or consent of the instructor). 3 hours</td>
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<td>EPY 8523</td>
<td>Psychology of the Gifted. 3 hours</td>
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<td>Practicum in Teaching Educational Psychology (EPY 8243). 3 hours</td>
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<td>EPY 8703</td>
<td>School Psychology. 3 hours</td>
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<td>EPY 8723</td>
<td>Individual Assessment for Educational and Related Settings (EPY 8263 or equivalent and consent of instructor). 3 hours</td>
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<td>EPY 8763</td>
<td>Seminar in Psychological Interventions in Educational and related Settings (EPY 8703). 3 hours</td>
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<td>Assessment and Interventions for Academic Skills Deficits. 3 hours</td>
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<td>EPY 8780</td>
<td>Internship in School Psychology (Consent of instructor). 3-6 hours</td>
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<td>Supervised Experiences in School Psychology (Consent of instructor). 3-6 hours</td>
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<td>EPY 8933</td>
<td>Interpretation of Intelligence/ Psychometric Instruments (EPY 8723). 3 hours</td>
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<td>EPY 8990</td>
<td>Special Topics in Educational Psychology. 1-9 hours</td>
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<td>EPY 9263</td>
<td>Applied Research Seminar (EPY 6214 , EDF 8363, and EDF 9373). 3 hours</td>
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<td>EPY 9723</td>
<td>Seminar in Contemporary School Psychology (approval of instructor). 3 hours</td>
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<td>EPY 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
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<td>EPY 9213</td>
<td>Advanced Analysis in Educational Research (EPY 4214/6214). 3 hours</td>
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<td>EPY 9313</td>
<td>Educational Evaluation Methods (EPY 8214 and EDF 9373 or equivalent coursework). 3 hours</td>
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<td>EPY 9703</td>
<td>Contemporary, Legal, Ethical, and Professional Issues in School and Educational Psychology (permission of the instructor). 3 hours</td>
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<td>EPY 9713</td>
<td>Advanced Psychological Consulting: Theory and Practice (permission of the instructor and EPY 8214 or equivalent). 3 hours</td>
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<tr>
<td>EPY 9730</td>
<td>Doctoral Internship in School Psychology (Consent of instructor). 3-6 hours</td>
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</tbody>
</table>

**Curriculum, Instruction, & Special Education**

**Dr. Devon Brenner, Department Head**
**Dr. Susie Burroughs, Graduate Coordinator**
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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 for Each Degree**

**General Admission Criteria**—The Department of Curriculum, Instruction, and Special Education (CISE) offers the Master of Science degree in Elementary Education, Secondary Education, and Special Education. The Department also offers the Master of Arts in Teaching-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. Students applying for admission to graduate programs in the Department of Curriculum, Instruction, and Special Education must hold or be eligible to obtain a Class A teaching certificate in the appropriate teaching field (exceptions include those seeking Special Education certification only or the Special Education non-certified Emotional/Behavioral Disorder option and the MAT-S degree). A student applying for admission to a degree program in Curriculum, Instruction, and Special Education must submit a complete application packet to the Office of the Graduate School by April 1 for summer, May 1 for second term summer, July 1 for fall admission, and November 1 for spring admission. Applications not meeting the admission deadline will be held for completion and review for up to two semesters. After that time, the applicant must reapply.

A complete admission packet consists of: application to the graduate degree program; documentation of Class A teacher’s certificate or eligibility for licensure (exceptions noted above); official GRE scores; three letters of recommendation; statement of purpose (must include number of years and overview of teaching experience, 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 June, September, and February.

Contingent Admission—There are no contingent admissions EXCEPT for those students who are applying the same semester they are graduating with another degree and the overall GPA is pending. Otherwise, the admission packet must be complete and all admission requirements met before admission will be considered.

Provisional Admission—The Department of Curriculum, Instruction, and Special Education follows the University’s Provisional Admission policy (refer to the admission section of this publication for the policy and criteria).

Graduate Programs of Study
The Master of Science degree in Elementary Education program of study requires a minimum of 36 semester hours of coursework beyond the bachelor’s degree, including EDF 8363, EDE 8313, EDE 8623, EDE 8633, EDE 8713, EDE 8733, EDE 8763, and RDG 8713, and a comprehensive written examination. A concentration is not required but two are available: Early Childhood Education and Middle Level Education. The Early Childhood concentration requires EDE 8513 and any two courses from EDE 8523; EDE 8533; EDE 8463; EDE 8543. The Middle Level Education concentration requires 9 hours from RDG 6113; EDE 8473; EDS 8683; EDS 8243; EDS 8653; EDS 8623; RDG 8653. The master’s program in elementary education is designed to enhance the teaching practice of teachers in grades preK-8 and in all content areas.

The Master of Science degree in Secondary Education requires a minimum of 36 semester hours of coursework beyond the bachelor’s degree and a written comprehensive exam. The focus of the program is on secondary education with supporting coursework from related fields and the teaching discipline. The required program of study includes EDS 8243; EDS 8613; EDS 8663; EDS 8653; EDF 8363; 3-12 hours of Education electives as approved by the advisor from the following courses: EDS 8103; EDS 8633; EDS 8623; EDS 8683; RDG 8593; and 9-18 credit hours of required content courses selected with 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.

The Master of Science degree in Special Education requires a minimum of 30 hours of coursework beyond the bachelor’s degree. Students must also pass a comprehensive written examination. The program is specifically intended to prepare classroom and resource teachers for public schools and institutions for students with disabilities. An add-on teaching-the-gifted endorsement is available. Clinical and practicum experiences are an integral component of the curriculum.

The Master of Arts in Teaching-Middle Level (MATM) is an alternate route licensure program of study that consists of 36 semester hours of graduate-level coursework. It is designed for a career as a middle-level teacher. In addition to the criteria for admission to a Master of Science degree program in CISE (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 IIA Specialty Area test for a specific content area, and pass a certified background check.

Required courses include 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 Middle Level Content Area Literacy, 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, a graduate-level diversity elective, and either EDE 8163 Teaching Middle Level Mathematics Content or EDE 8173 Teaching Middle Level Social Studies or EDE 8183 Teaching Middle Level Science, and a graduate-level diversity elective.

The Master of Arts in Teaching-Secondary (MAT-S) is an alternate route secondary licensure program of study that consists of 36 semester hours of graduate-level coursework. It is designed for a candidate with a bachelor’s degree in a content discipline or with significant higher-level coursework in a single discipline who wishes to prepare for a career as a teacher. In addition to the criteria for admission to a Master of Science degree program (with the exception of a teaching license), MAT-S candidates must pass the Praxis I and Praxis II-Specialty Area Test (in the licensure area); submit verification of 40 hours...
of work with children; and have completed 15 hours of coursework in the content area of licensure. MAT-5 students must also pass a certified background check prior to beginning field experiences.

Required courses include 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; and EDS 8103 Advanced Methodologies in Middle and Secondary Schools OR TKT 6803 Integrating Technology for Meaningful Living.

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

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

The Doctor of Philosophy in Curriculum and Instruction requires a minimum of 90 semester hours of coursework beyond the bachelor’s degree including EPY 8214, EPY 9213, EDF 8363, EDF 9373, EDF 9453, EDF 9463, EDF 9473, and EDF 9313; demonstration of competence in the application of research and statistics; a written and oral preliminary examination; satisfactory completion of a research skill requirement; and a dissertation. At least two-thirds of the total hours of coursework on the plan of study, exclusive of dissertation hours, must be 8000 level courses.

Comprehensive Examinations
The written comprehensive examinations for the Master of Science in Secondary Education and Educational Specialist degrees in Elementary Education, Secondary Education, and Special Education are scheduled three times a year. The dates are the fourth Thursday of June, October, and February. Students can take the comprehensive examination when they are within 6 hours of completing their degree or are in their terminal semester, have an overall GPA of 3.00 after admission to the program, and have completed the courses that will be covered on the comprehensive examination.

Residency Requirement
There is no general residency requirement for the master’s degree. Residency for the specialist degree is a minimum of 30 weeks. A degree cannot be completed in two summer sessions or equivalent, neither in one regular semester and one summer session. For doctoral students there is no specific on-campus residence requirement. However, students will be required to complete one-half of required coursework and all dissertation credits from Mississippi State University.

Academic Performance
The Department of Curriculum, Instruction, and Special Education defines satisfactory performance in graduate level coursework as a grade of S on thesis/dissertation hours, and a GPA of at least 3.00 on all coursework attempted after admission to the program. Any of the following or combination of the following will result in the dismissal of a student from a CISE graduate program: grades of less than B in more than 7 hours of coursework; a GPA below 3.00; failure of the master’s or educational specialist’s comprehensive examination twice; failure of the written doctoral preliminary examination twice; failure of the oral doctoral preliminary examination twice; or failure of the doctoral dissertation defense twice. In the event a student’s performance warrants dismissal from a graduate program, the CISE Graduate Coordinator will petition the Dean of the College of education to dismiss the student from the graduate program. The student will be notified of the action by certified mail.

If a student makes a grade below a B in a course on his or her plan of study, the course cannot be dropped from the plan of study. A student cannot repeat a course in which a grade of C or higher is earned.

Completion Requirements
All graduate students must attend the CISE graduate orientation during the first semester of enrollment. All graduate students submitting a thesis or dissertation must attend the thesis/dissertation workshops conducted by the Library within the year in which they are completing the dissertation and before receiving the graduate coordinator’s signature. All students seeking the Doctor of Philosophy degree must satisfy the research skills requirement before taking the written preliminary examination. (Refer to the CISE Graduate Handbook for options to meet this requirement.)
For further information concerning the degree programs offered by CISE, students should refer to the Department of Curriculum, Instruction, and Special Education Graduate Handbook (www.cise.msstate.edu) and the College of Education Doctoral Student Handbook (www.educ.msstate.edu).

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

Elementary Education—Course prerequisites are noted in parentheses.

- EDE 6990 Special Topics in Elementary Education. 1-9 hours
- EDE 7000 Directed Individual Study. 1-6 hours
- EDE 8000 Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
- EDE 8313 Theory and Development of Early Childhood Education. 3 hours
- EDE 8423 Elementary School Methods. 3 hours
- EDE 8433 The Elementary School Curriculum. 3 hours
- EDE 8443 Seminar in Elementary Education. 3 hours
- EDE 8463 Readings and Research in Children's Literature. 3 hours
- EDE 8473 The Elementary Social Studies Curriculum. 3 hours
- EDE 8483 Teaching Physical Science in the Elementary Schools. 3 hours
- EDE 8493 Teaching Biological Science in the Elementary Schools. 3 hours
- EDE 8513 Curriculum and Program Developments in Early Childhood Education. 3 hours
- EDE 8523 Practicum: Language Arts and Literacy Development in Early Childhood Education (EDE 4133, RDG 3113, RDG 3213, or the equivalent). 3 hours
- EDE 8533 Behavioral Experiences in Early Childhood Education. 3 hours
- EDE 8543 Mathematics Experiences in Early Childhood Education (EDE 4123 or the equivalent). 3 hours
- EDE 8623 Content Area Literacy. 3 hours
- EDE 8633 The Teaching of Writing. 3 hours
- EDE 8713 Educating Young Adolescents. 3 hours
- EDE 8733 Teaching Physical, Life and Earth Science in the Elementary/Middle School Classroom. 3 hours
- EDE 8763 Elementary and Middle Level Mathematics Education. 3 hours
- EDE 8893 Readings in Elementary Education (Doctoral or Specialist standing or consent of instructor). 3 hours
- EDE 8990 Special Topics in Elementary Education. 1-9 hours
- EDE 9000 Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

- EDE 9221 Professional Practice in Teacher Education [Same as EDX 9221 and EDS 9221]. 1 hour
- EDE 9413 Practicum in College Teaching. 3 hours
- EDE 9420 Research Practicum in Early Childhood Education (EDE 8513, EDE 8523, EDE 8533, EDE 8543). 1-6 hours
- EDE 9553 Teaching and Teacher Education [Same as EDS 9553 and EDX 9553]. 3 hours

Readings in Education:

- RDG 6113 Middle Level Literacy Development and Instruction (RDG 4113). 3 hours
- RDG 6990 Special Topics in Readings. 1-9 hours
- RDG 8113 Middle Level Literacy Instruction. 3 hours
- RDG 8123 Supporting the Middle Level Literacy Learner. 3 hours
- RDG 8133 Middle Level Content Area Literacy Instruction. 3 hours
- RDG 8153 Psychology of Reading. 3 hours
- RDG 8453 Research in Reading. 3 hours
- RDG 8593 Issues and Innovations in Reading. 3 hours
- RDG 8653 Teaching Reading in the Secondary Schools. 3 hours
- RDG 8713 Teaching Struggling Readers and Writers. 3 hours
- RDG 8990 Special Topics in Readings. 1-9 hours

Middle-Level Education:

- EDE 8113 Middle Level Management and the Young Adolescent. 3 hours
- EDE 8123 Foundations for Teaching Middle Level Mathematics. 3 hours
- EDE 8133 Middle Level Internship I. 3 hours
- EDE 8143 Middle Level Internship (Admission to MAT-M degree program, EDE 8113, EDE 8133, and EPY 8473). 3 hours
- EDE 8153 Professional Roles of the Middle Level Educator. 3 hours
- EDE 8163 Teaching Middle Level Mathematics Content. 3 hours
- EDE 8173 Teaching Middle Level Social Studies. 3 hours
- EDE 8183 Teaching Middle Level Science. 3 hours

Secondary Education:

- EDS 6633 Methods of Teaching Mathematics (Admission to Teacher Education). 3 hours
- EDS 6643 Methods of Teaching Social Studies (Admission to Teacher Education). 3 hours
- EDS 6653 Methods of Teaching Science (Admission to Teacher Education). 3 hours
- EDS 6663 Methods in Foreign Language Teaching (EDS 3663). 3 hours
EDS 6673  Methods of Teaching Language Arts (Admission to Teacher Education). 3 hours
EDS 6990  Special Topics in Secondary 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 Methodologies in Middle and Secondary Education. 3 hours
EDS 8243  Advanced Planning and Managing of Learning. 3 hours
EDS 8613  Middle and Secondary School Curriculum. 3 hours
EDS 8623  Principles of Effective Instruction in Secondary Schools. 3 hours
EDS 8633  Problems of Secondary Education. 3 hours
EDS 8643  Directed Reading in Secondary Education. 3 hours
EDS 8653  Issues of Accountability in Schools (EPY 3253 or EPY 6313 or permission of instructor). 3 hours
EDS 8663  Improving Instruction in Secondary Schools. 3 hours
EDS 8683  Dispositions and Reflective Practice in Teaching (EDS 8623 or permission of instructor). 3 hours
EDS 8713  Curriculum Adjustments. 3 hours
EDS 8886  Dimensions of Learning I (Admission to MATS program, EDS 8243, EPY 6313). 6 hours
EDS 8896  Dimensions of Learning II (Admission to MATS program, EDS 8243, EPY 6313). 6 hours
EDS 8990  Special Topics in Secondary Education. 3 hours
EDS 9000  Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree
EDS 9413  Practicum in College Teaching. 3 hours

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 14353/6353]. 3 hours
EDX 6990  Special Topics in Special Education. 1-9 hours
EDX 7000  Directed Individual Study. 1-3 hours
EDX 8000  Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
EDX 8103  Advanced Contingency Management. 3 hours
EDX 8123  Organization and Supervision of Special Education. 3 hours
EDX 8133  Readings and Research in Exceptional Education. 3 hours
EDX 8143  Early Education for the Disabled. 3 hours
EDX 8153  Language Development—Assessment and Remediation. 3 hours
EDX 8163  Teaching Strategies for the Gifted. 3 hours
EDX 8173  Special Education in the Regular Classroom. 3 hours
EDX 8183  Seminar in Learning Disabilities (EDX 3203 or equivalent). 3 hours
EDX 8203  Practicum: Diagnosis of Special Education Populations. 3 hours
EDX 8213  Practicum: Remediation of Special Education Populations. 3 hours
EDX 8223  Supervision: Diagnosis of the Educationally Disabled Practicum. 3 hours
EDX 8303  Seminar in Mental Retardation. 3 hours
EDX 8333  Placement Services and Techniques [same as COE 8923]. 3 hours
EDX 8393  Seminar in Education for the Emotionally Disabled (EDX8403). 3 hours
EDX 8403  Teaching the Emotionally Disabled. 3 hours
EDX 8413  Personal, Social and Work Adjustment Counseling [same as COE 8413 and TKT 8413]. 3 hours
EDX 8653  Vocational Assessment of Special Needs Persons (COE 8063 or Equivalent [same as TKT 8653 and COE 6373]. 3 hours
EDX 6113  Diagnostic-Prescriptive Methods and Materials for Early Childhood Disabled. 3 hours
EDX 8663  Work Samples in Vocational Assessment (COE 8093 or equivalent and COE 6373 or COE 8033 or consent of instructor). 3 hours
EDX 8780  Internship in Special Education. 3-6 hours
A complete admission packet consists of an application to the graduate degree program, three letters of recommendation, statement of purpose, official scores from all sections of the Graduate Record Examination (GRE), and official transcripts from all colleges and universities attended.

Admission criteria for a master’s degree include a minimum 2.75 undergraduate GPA from a four-year accredited institution or a minimum 3.00 graduate GPA. Admission criteria for the educational specialist degree (Ed.S.) include a minimum 3.20 GPA, plus an earned master’s degree from an accredited institution. For the doctoral degree, a minimum 3.40 GPA on previous graduate degree(s) earned from accredited institutions.

**Provisional Admission**—If a student does not fully meet the admission requirements of the program, it may be possible for that student to be admitted provisionally. If admitted provisionally, the student must attain a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University after admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.

**Contingent Admission**—There are no contingent admissions. The admission packet must be complete and all admission requirements met before admission will be considered.

**Program of Study**

The master’s degrees require the following credit hours of coursework above the baccalaureate degree for the non-thesis option: Master of Science in Instructional Technology, 33 hours; Master of Science in Technology, 33 hours. At least 15 hours must be from 8000-level courses or above, and a minimum of 15 credit hours must be department courses. A written comprehensive examination is required. Students who elect the thesis option must also complete an oral comprehensive examination in defense of the thesis.

Educational specialist students must complete at least 31 semester hours above the master’s degree, and one-half or more of the hours must be 8000 level courses or above. A thesis (6 credit hours) or a Directed Individual Study (3 credit hours) is required. A final written comprehensive examination is required.

At least three academic years beyond the baccalaureate degree or a minimum of 90 semester
hours are necessary to meet the course requirements for the Ph.D. degree. At least two-thirds of the hours must be from 8000-level courses or above. Each student is assigned a major professor and a committee. A formal program of study is developed by the student with the advice and concurrence of the student’s major professor and other committee members no later than the student’s second semester of enrollment. Twenty hours of dissertation research, written and oral preliminary examinations, a dissertation, and an oral examination in defense of the dissertation are required.

Academic Performance
Unsatisfactory performance is defined as making more than two grades of C or lower in courses taken for graduate credit or failure to maintain a B average in graduate courses attempted after admission to the program (i.e., program and non-program courses). In addition, failure of the preliminary/comprehensive examination, an unsatisfactory evaluation of a thesis or dissertation, failure of the research defense, or any other failure of a required component of one’s program of study is unsatisfactory performance. Any one of these or a combination of these will constitute a basis for review for dismissal.

Any student in the College of Education making more than two grades of C or lower in courses taken for graduate credit may be forced to withdraw from graduate school upon recommendation of the major professor, the departmental graduate coordinator, and the Dean of the College of Education. [It is the major professor’s responsibility to ensure that any student who has performed unsatisfactorily be recommended for termination from the degree program before the beginning of the subsequent semester.] If unsatisfactory performance is determined, the graduate coordinator, the major professor, and the dean will review the student’s record and determine a course of action. Appeal of dismissal can be made by submitting a written appeal statement to the graduate coordinator and/or department head. If the dismissal, upon the student’s appeal, is upheld by the graduate coordinator and/or department head, the student can then submit a written appeal to the Dean of the College of Education.

Completion Requirements—All graduate students submitting a thesis or dissertation must attend the thesis/dissertation workshops conducted by the Library for the Department of Instructional Systems and Workforce Development prior to the application for the written comprehensive examination. All students seeking the doctor of philosophy degree must satisfy research skills requirements before taking the written preliminary examination. (Refer to the College of Education Doctoral Student Handbook for options to meet these requirements.)

Master of Science in Technology (M.S.)
Required Courses:
- EDF 8353 Principles of Curriculum Development. 3 hours
- EDF 8363 Functions and Methods of Research in Education. 3 hours
Teacher Education majors must meet these additional requirements:
- TKT 8263 Philosophy and Administration of Career and Technology Education. 3 hours
- TKT 8213 Content and Method of Teaching in Career and Technology Education. 3 hours

Master of Science in Instructional Technology (M.S.I.T.)
Prerequisite Courses:
- TKT 1273 Computer Applications. 3 hours
- TKB 4283 or 6283 Advanced Office Systems. 3 hours
One of the following two courses:
- TKB 4543 or 6543 Advanced Information Processing. 3 hours
- TKT 4743 or 6743 Desktop Publishing. 3 hours
Required courses:
- TKT 8703 Trends and Issues in Instructional Systems. 3 hours
- TKT 8713 Seminar in Industrial Research and Development. 3 hours
- TKT 8723 Instructional Design for Industry. 3 hours
- TKT 8200 Internship in Career and Technology Education. 1-6 hours
- TKT 8793 Directed Project in Instructional Technology. 3 hours

Educational Specialist Degree: Major in Education and concentration in Technology
Required courses:
- EPY 6214 Educational and Psychological Statistics. 4 hours AND
- TKT 7000 Directed Individual Study in Instructional Technology. 3 hours OR
- TKT 8000 Thesis Research/Thesis. 6 hours
Additional courses selected with approval of the student’s graduate committee and the graduate coordinator. Program must include at least 31 credit hours of coursework.
Doctor of Philosophy in Instructional Systems and Workforce Development

A minimum of 93 semester hours of graduate credit is necessary to meet the Doctor of Philosophy in Instructional Systems and Workforce Development (ISWD) requirements.

In order for the program to reflect students’ content areas in research and foundation levels, students must take at least two research and statistics courses and at least two foundations courses from the Department of Instructional Systems and Workforce Development (ISWD).

Technology courses ..............................................24-36 hours
Research and Statistics
Core Requirement ...............................................22-26 hours
Foundation courses.............................................12 hours
Higher Education..................................................3 hours
Approved electives .....................................12-18 hours
Dissertation......................................................20 hours
Minor courses are optional.

In addition to the technology emphasis courses (24-36 hours), students are required to take at least 22-26 credit hours from the research and statistics courses, at least 12 credit hours of foundation courses and 3 hours of higher education courses. At least two courses in research and statistics must be selected from the ISWD Department. Students are also required to take at least two foundation courses in ISWD. All department requirements must be completed, and all College of Education core requirement courses must be completed to satisfy degree requirements prior to graduation.

NOTE: EPY 6214 Educational and Psychological Statistics or equivalent (prerequisite for EPY 8214) is not counted as part of the minimum 93 semester hours necessary to meet the Doctor of Philosophy in Instructional Systems and Workforce Development (ISWD) degree requirements.

Research and Statistics Courses: (All of the following core courses are required. The list of courses shown below include the required College Core.)

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>EPY 8214</td>
<td>Advanced Educational and Psychological Statistics. 4 hours</td>
</tr>
<tr>
<td>EPY 9213</td>
<td>Advanced Analysis in Educational Research. 3 hours</td>
</tr>
<tr>
<td>TKT 8243</td>
<td>Research Problems in Technology and Workforce Development. 3 hours</td>
</tr>
<tr>
<td>TKT 8713</td>
<td>Seminar in Industrial Research and Development. 3 hours</td>
</tr>
<tr>
<td>EDF 8363</td>
<td>Functions and Methods of Research in Education. 3 hours</td>
</tr>
<tr>
<td>EDF 9373</td>
<td>Educational Research Design. 3 hours</td>
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One of the following three courses:

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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>EPY 9263</td>
<td>Applied Research Seminar. 3 hours</td>
</tr>
<tr>
<td>EDF 9443</td>
<td>Single-Subject Research Design for Education [Same as EPY 9443]. 3 hours</td>
</tr>
<tr>
<td>EDF 9453</td>
<td>Introduction to Qualitative Research in Education. 3 hours</td>
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Foundation Courses: (Both courses are required)

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>EPY 8223</td>
<td>Psychological Foundations of Education. 3 hours</td>
</tr>
<tr>
<td>EDF 9313</td>
<td>Philosophy of Education. 3 hours</td>
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</table>

And at least two of the following four foundation courses taught in the ISWD department are required.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>TKT 8273</td>
<td>Contemporary Issues in Curriculum Planning in ISWD. 3 hours</td>
</tr>
<tr>
<td>TKT 8263</td>
<td>Philosophy and Administration of Career and Technology Education. 3 hours</td>
</tr>
<tr>
<td>TKT 8213</td>
<td>Content and Methods of Teaching Career and Technology Education. 3 hours</td>
</tr>
<tr>
<td>TKT 9213</td>
<td>Foundations of Workforce/Technology Education and Adult Learning Theories</td>
</tr>
</tbody>
</table>

Higher Education Courses: (One of the following three courses is required)

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>HED 8123</td>
<td>University and Community College Governance. 3 hours</td>
</tr>
<tr>
<td>HED 8133</td>
<td>University and Community College Instruction. 3 hours</td>
</tr>
<tr>
<td>AIS 8243</td>
<td>Administration and Supervision in Agricultural Information Science and Education. 3 hours</td>
</tr>
</tbody>
</table>

NOTE: The courses selected for the individual technology emphasis are determined jointly by the student, major professor, and graduate committee based on individual student goals. However, all College of Education core and departmental requirements must be completed to satisfy degree completion requirements prior to graduation. Additional courses are selected with approval of student’s graduate committee and the graduate coordinator.

Department Courses—Course prerequisites are noted in parentheses.

Technology:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>TKT 6073</td>
<td>Instructional Materials Development and Use in Vocational Education. 3 hours</td>
</tr>
<tr>
<td>TKT 6103</td>
<td>Delivery of the Vocational-Technical Instructional Program. 3 hours</td>
</tr>
<tr>
<td>TKT 6143</td>
<td>History and Philosophy of Career and Technical Education. 3 hours</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>
</tr>
<tr>
<td>TKT 6183</td>
<td>Methods of Teaching Career Pathways Experience. 3 hours</td>
</tr>
<tr>
<td>TKT 6213</td>
<td>Methods of Teaching Business Subjects. (TKE 4213/6213). 3 hours</td>
</tr>
<tr>
<td>TKT 6223</td>
<td>Management of the Vocational-Technical Learning Environment. 3 hours</td>
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<tr>
<td>Course Code</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>
</tr>
<tr>
<td>TKT 6263</td>
<td>Diversity in Workforce and Educational Environments. 3 hours</td>
</tr>
<tr>
<td>TKT 6313</td>
<td>Content and Methods of Teaching Technology Discovery. 4 hours</td>
</tr>
<tr>
<td>TKT 6323</td>
<td>Content and Methods of Teaching Computer Discovery. 3 hours</td>
</tr>
<tr>
<td>TKT 6333</td>
<td>Content and Methods of Teaching Career Discovery. 3 hours</td>
</tr>
<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>
</tr>
<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>
</tr>
<tr>
<td>TKT 6743</td>
<td>Desktop Publishing. 3 hours</td>
</tr>
<tr>
<td>TKT 6753</td>
<td>Presenting with Media. 3 hours</td>
</tr>
<tr>
<td>TKT 6763</td>
<td>Digital Tools for 21st Century Teaching and Learning (TKT 1273 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>TKT 6803</td>
<td>Integrating Technology for Meaningful Learning. 3 hours</td>
</tr>
<tr>
<td>TKT 6813</td>
<td>Introduction of Instructional Systems. 3 hours</td>
</tr>
<tr>
<td>TKT 6853</td>
<td>Philosophy and Principles of Vocational-Technical Instruction. 3 hours</td>
</tr>
<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>
</tr>
<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>
</tr>
<tr>
<td>TKT 8233</td>
<td>Analysis of Workforce Education Programs and Survey Research in Workforce Development. 3 hours</td>
</tr>
<tr>
<td>TKT 8243</td>
<td>Research Problems in Instructional Systems and Workforce Development. 3 hours</td>
</tr>
<tr>
<td>TKT 8263</td>
<td>Philosophy and Administration of Career and Technology Education. 3 hours</td>
</tr>
<tr>
<td>TKT 8273</td>
<td>Contemporary Issues in Curriculum Planning in ISWD. 3 hours</td>
</tr>
<tr>
<td>TKT 8703</td>
<td>Trends and Issues in Instructional Systems. 3 hours</td>
</tr>
<tr>
<td>TKT 8713</td>
<td>Seminar in Industrial Research and Development. 3 hours</td>
</tr>
<tr>
<td>TKT 8723</td>
<td>Instructional Design for Industry. 3 hours</td>
</tr>
<tr>
<td>TKT 8733</td>
<td>Telecommunications: Applications in Scholarship. 3 hours</td>
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<tr>
<td>TKT 8743</td>
<td>Interactive Media. 3 hours</td>
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<tr>
<td>TKT 8753</td>
<td>Technology Issues for School Administrators. 3 hours</td>
</tr>
<tr>
<td>TKT 8763</td>
<td>Seminar in Planning for Instructional Technology. 3 hours</td>
</tr>
<tr>
<td>TKT 8773</td>
<td>Teaching and Training with Multi-media. 3 hours</td>
</tr>
<tr>
<td>TKT 8793</td>
<td>Directed Project in Instructional Technology. 3 hours</td>
</tr>
<tr>
<td>TKT 8803</td>
<td>Design and Evaluation of Instructional Software (TKT 1273). 3 hours</td>
</tr>
<tr>
<td>TKT 8813</td>
<td>Issues in Distance Education. 3 hours</td>
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<tr>
<td>TKT 8833</td>
<td>Design and Implementation of Data Networks. 3 hours</td>
</tr>
<tr>
<td>TKT 8890</td>
<td>Special Topics in Technology Teacher Education. 1-9 hours</td>
</tr>
<tr>
<td>TKT 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
</tr>
<tr>
<td>TKT 9213</td>
<td>Foundations of Workforce/Technology Education and Adult Learning Theories. 3 hours</td>
</tr>
</tbody>
</table>

**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                       |
Graduate study is offered in the Department of Kinesiology leading to the degree of Master of Science in Kinesiology with concentrations in Exercise Physiology, Sport Pedagogy, and Sport Administration. The concentration in Exercise Physiology prepares students for careers in fitness and allied health. The concentration in Sport Pedagogy prepares professionals for leadership roles as physical educators, and the concentration in Sport Administration prepares professionals for advanced careers in the expanding sport industry. These concentrations also prepare students for advanced study at the doctoral level. Graduate teaching assistantships are available. To secure additional information write the Graduate Coordinator, Kinesiology, Box 6186, Mississippi State, MS 39762.

Admission Criteria
Regular admission to the Master of Science in Kinesiology program requires a minimum overall grade point average GPA of 2.75 on a 4.00 scale on the last half of undergraduate work and an appropriate score on the verbal, quantitative and analytical writing portions of the Graduate Record Examination (GRE). The applicant must meet general requirements for admission to graduate studies as stated in the Graduate School Bulletin.

An international student applying for admission must score a minimum of 550 PBT (213 CBT or 79 iBT) on the Test of English as a Foreign Language (TOEFL) or a minimum of 6.5 on the International English Language Testing Systems (IELTS) in addition to meeting all other admission criteria.

Provisional Admission—Provisional admission may be granted to a student with a 2.50 to 2.74 on a 4.00 scale and an appropriate GRE score. The student must complete, during the first 9 hours in the Master of Science in Kinesiology program, specific courses prescribed by his or her major professor. Provisionally admitted students must attain a minimum GPA of 3.00 on the first 9 graduate hours after admission to the program in order to remain in good standing. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement.

Program of Study
The Master of Science in Kinesiology degree requires a minimum of 33 hours of graduate credit. The student will develop, in cooperation with the major professor and other committee members, a program of study during the first semester in the program.

Academic Performance
The Master of Science in Kinesiology student must meet University and College of Education academic performance requirements in order to remain in good standing. These requirements are found elsewhere in the Mississippi State University Graduate School Bulletin. Students are encouraged to familiarize themselves with academic performance requirements.

Completion Requirements
The student in the Master of Science in Kinesiology program must successfully complete written comprehensive examinations prior to graduation. The student must be within 6 hours of graduation or in the last semester of study and in good standing to be eligible to apply for comprehensive examinations.

The student pursuing Option 1 (Thesis) is required to complete 6 credit hours of thesis work as part of the 33 required hours. A thesis committee, consisting of at least three graduate faculty members, including the student’s major professor and at least one more graduate faculty member from the Department of Kinesiology, must be established. Upon completion of the thesis, the student must provide copies for the department head, major professor, and committee members.

A student pursuing Option 2 (Non-Thesis) may choose to complete a Directed Individual Study and 33 required hours. The student choosing the Directed Individual Study must establish a committee consisting of the student’s major professor and at least one additional graduate faculty member from the Department of Kinesiology graduate faculty.

Prerequisite and Core Courses
The Master of Science in Kinesiology student is required to complete research techniques, core, and elective requirements within the chosen concentration area. The Department of Kinesiology requires a research methods course (KI 8303 or approved equivalent) and an interpretation of data course (KI 8313) for each student. Requirements for
core and elective classes vary according to concentration. The student should contact his or her major professor to complete a program of study appropriate for the concentration during the first semester of graduate study.

**Exercise Physiology Concentration**  
(33 credit hours)

**Research Core** (15 hours)
- KI 8303 Research in Kinesiology
- KI 8313 Interpretation of Data in Kinesiology
- EP 8273 Laboratory Instrumentation

**Thesis Option** (6 hours)
- KI 8006 Thesis Research or
- KI 7006 Directed Individual Study

**Exercise Physiology Core** (9 hours)
- EP 8243 Cardiorespiratory Exercise Physiology
- EP 8263 Exercise Biochemistry
- EP 8283 Environmental Exercise Physiology

**Exercise Physiology Tracks** (9 hours)
- Clinical Exercise Physiology (Choose 3)
  - EP 8323 Science and Practice in Cardiopulmonary Rehabilitation
  - EP 8423 Graded Exercise Testing
  - EP 8433 Psychological Aspects of Exercise
  - EP 8443 Neuromuscular Mechanisms in Exercise Strength and Conditioning (Choose 3)
  - EP 6153 Training Techniques for Exercise and Sport
  - EP 8253 Doping and Supplement Use in Sport
  - PE 8203 Psychological Aspects of Sport
  - EP 8443 Neuromuscular Mechanisms in Exercise
  - EP 8453 Biomechanics of Human Movement

**Sport Pedagogy Concentration**  
(33 credit hours)

**Non-Thesis Option**
- KI 8303 Research in Kinesiology
- KI 8313 Interpretation of Data in Kinesiology
- KI 7006 Directed Individual Study

**Research Core** (12 hours)
- PE 8103 Developing Coaching Expertise
- PE 8163 Seminar in Physical Education
- SS 8883 Ethical Issues in Sport
- KI 8203 Psychological Aspects of Sport

**Electives** (choose 3)
- EP 6153 Training Techniques for Exercise and Sport
- EP 8253 Doping and Supplement Use in Sports
- SS 8213 Funding of Sport
- SS 8823 Sport Law
- EP 8453 Biomechanics of Human Movement

**Sport Pedagogy Core** (12 hours)
- PE 8103 Developing Coaching Expertise
- PE 8163 Seminar in Physical Education
- SS 8883 Ethical Issues in Sport
- PE 8203 Psychological Aspects of Sport

**Electives** (choose 3)
- EP 6153 Training Techniques for Exercise and Sport
- EP 8253 Doping and Supplement Use in Sports
- SS 8213 Funding of Sport
- SS 8823 Sport Law
- EP 8453 Biomechanics of Human Movement

**Sport Pedagogy Concentration**  
(33 credit hours)

**Core** (18 hours)
- SS 8123 Sport Management
- SS 8803 Sport Law
- SS 8823 Sport Sponsorships
- SS 8883 Ethical Issues in Sport
- KI 8303 Research in Kinesiology
- KI 8313 Interpretation of Data in Kinesiology

**Concluding Options** (3-6 hours)
- Option 1: KI 8006 Thesis
- Option 2: KI 8713 Internship

**Graduate Courses**
- EP 6113 Fitness Programs and Testing Procedures (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 3183 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
Leadership and Foundations
Dr. Frankie K. Williams, Department Head
And Graduate Coordinator
245 Allen Hall
Box 6037
Mississippi State, MS 39762
Telephone: 662-325-0969
E-mail: fwilliams@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-

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>KI 8000</td>
<td>Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
</tr>
<tr>
<td>KI 8303</td>
<td>Research in Kinesiology. 3 hours</td>
</tr>
<tr>
<td>KI 8313</td>
<td>Interpretation of Data in Kinesiology. 3 hours</td>
</tr>
<tr>
<td>KI 8710</td>
<td>Internship (Consent of department head). 1-9 hours</td>
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<tr>
<td>KI 8990</td>
<td>Special Topics in Physical Education. 1-9 hours</td>
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<tr>
<td>PE 6163</td>
<td>Principles and Methods of Secondary School Health and Physical Education (senior or graduate standing). 3 hours</td>
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<tr>
<td>PE 6883</td>
<td>School Health Education (admission to teacher education). 3 hours</td>
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<tr>
<td>PE 8103</td>
<td>Developing Coaching Expertise. 3 hours</td>
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<tr>
<td>PE 8163</td>
<td>Seminar in Physical Education. 3 hours</td>
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<tr>
<td>SS 6403</td>
<td>Gender &amp; Sport [Same as GS 4403/6403]. 3 hours</td>
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<tr>
<td>SS 8123</td>
<td>Sport Management. 3 hours</td>
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<tr>
<td>SS 8203</td>
<td>Funding of Sport. 3 hours</td>
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<tr>
<td>SS 8823</td>
<td>Sport Sponsorships. 3 hours</td>
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<tr>
<td>SS 8833</td>
<td>Event and Facility Management. 3 hours</td>
</tr>
<tr>
<td>SS 8883</td>
<td>Ethical Issues in Sport. 3 hours</td>
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</tbody>
</table>
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
CCL 8123 Community College Finance and Budgeting. 3 hours
CCL 8233 Community College Legal Issues. 3 hours  
CCL 8333 Organization and Administration of the Community College. 3 hours  
CCL 8283 Leadership in Community College Administration. 3 hours  
CCL 8353 Applications of Organizational Theory and Behavior in Community College Leadership. 3 hours  
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  
EC 6313 Introduction to Regional Economics. 3 hours  
EC 6333 Applied Regional Economics. 3 hours  
AEC 8713 Rural Community and Economic Development. 3 hours  
PAA 8733 Public Program Evaluation. 3 hours  

**Research Courses: 14 credit hours**  
EDF 8393 Educational and Psychological Statistics. 4 hours  
EDF 8383 Educational Research Design. 3 hours  
EDF 8323 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 as school administrators. 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: 39 credit hours**  

**Core Courses: 33 credit hours**  
TKT 8753 Technology Issues for School Administrators. 3 hours  
EDL 8113 Contexts of Educational Leadership. 3 hours  
EDL 8123 Principles of Educational Leadership. 3 hours  
EDF 8363 Functions and Methods of Research. 3 hours  
EDL 8143 Educational Leaders as Instructional Supervisors. 3 hours  
EDL 8163 Educational Budgeting and Resource Allocation. 3 hours  
EDL 8173 Legal and Ethical Perspectives of Leadership in Schools. 3 hours  
EDL 8193 Educational Environments. 3 hours  
EDL 8213 Internship I. 3 hours  
EDL 8223 Internship II. 3 hours  
EDL 8233 Internship III. 3 hours  

**Electives: 6 credit hours**  
The student must select and successfully complete (3.00 grade point average) a minimum of two foundation courses from the list below.  
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


**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 43 credit 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; and (h) letter of recommendation from a school administrator; (i) portfolio; and (j) 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

- **Applications of Theory to Educational Administration. 3 hours**

- **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.

- **Educational and Psychological Statistics. 4 hours**
  - EPY 6214
- **Advanced Educational and Psychological Statistics. 4 hours**
  - EPY 8214
- **Advanced Analysis in Educational Research. 3 hours**
  - EPY 9213
- **Applied Research Seminar. 3 hours**
  - EPY 9263
- **Educational Research Design. 3 hours**
  - EDF 9373
- **Qualitative Data Collection. 3 hours**
  - EDF 9463
- **Qualitative Data Analysis. 3 hours**
  - EDF 9473

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.

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**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.
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. Sarah A. Rajala, Dean
Dr. Lori Bruce, Associate Dean for Research and Graduate Studies
Dr. Royce Bowden, Associate Dean of Academics
250 McCain
Telephone: 662-325-2270
Fax: 662-325-8573
Mailing Address: Box 9544, Mississippi State, MS 39762
E-mail: RBurrell@bagley.msstate.edu
Website: http://www.engr.msstate.edu/

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

Department of Aerospace Engineering

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

Doctor of Philosophy
Major: Engineering
Concentration: Aerospace Engineering [1, 5]

Department of Agricultural & Biological Engineering

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

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

Doctor of Philosophy
Major: Engineering
Concentration: Biological Engineering [1]

Department of Civil & Environmental Engineering

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

Doctor of Philosophy
Major: Engineering
Concentration: Civil Engineering [1, 5]

Department of Computer Science & Engineering

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

Doctor of Philosophy
Major: Computer Science [1]

Department of Electrical & Computer Engineering

Master of Science
Major: Electrical and Computer Engineering (T; NT) [1, 5]

Doctor of Philosophy
Major: Electrical and Computer Engineering [1, 5]

Department of Industrial & Systems Engineering

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

Doctor of Philosophy
Major: Industrial and Systems Engineering [1, 5]

Department of Mechanical Engineering

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

Doctor of Philosophy
Major: Engineering
Concentration: Mechanical Engineering [1]

Interdisciplinary Curricula

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

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

Doctor of Philosophy
Major: Computational Engineering [1]

Doctor of Philosophy
Major: Engineering
Concentration: Applied Physics [1]
Graduate Certificate Programs
- Automotive Engineering
- Computational Biology
- Geospatial and Remote Sensing
- Information Assurance Professional Certificate
- Manufacturing
- Materials Engineering
- Six Sigma
- Software Engineering

The Bagley College of Engineering was created at MSU in 1902 as the School of Engineering. Named for MSU alumnus James Worth Bagley (EE, B.S. 1961; M.S. 1966) in 2002, the Bagley College of Engineering (BCoE) ranks in the top 100 (81st) engineering graduate programs and is listed in the U.S. News & World Report-America’s Best Graduate Schools. In fall 2011, graduate enrollment totaled 608 (287 M.S.; 321 Ph.D.). In support of its strategic plan, the BCoE seeks to increase doctoral enrollment and direct-admits qualified B.S. graduates to doctoral programs. The College is comprised of eight academic departments and offers 12 master’s degrees and 12 doctoral degrees. Excellence in research is a high priority for BCoE faculty. The College is comprised of tenure-track faculty members and research faculty who also play an active role in both teaching and research for graduate students. BCoE ranks 34th among colleges of engineering in NSF-national rankings by research and development expenditures in FY 09-10 (excludes Computer Science). With several state-of-the-art research centers and laboratories to provide hands-on experience for master’s and doctoral students, excellence extends beyond the classroom offerings. Information on BCoE research centers and laboratories may be accessed under General Information—Centers and Institutes in this publication. The BCoE Strategic Plan also focuses on the placement of BCoE Engineering graduates with major multinational companies and top research universities. BCoE is committed to a diverse student study body and offers a universal testing machine laboratory. Graduate research and teaching assistantships are available.

Aerospace Engineering
Dr. Pasquale Cinnella, Department Head
Dr. J. Mark Janus, Graduate Coordinator
330 Walker Engineering Building
Box A
Mississippi State, MS 39762
Telephone: 662-325-3623
E-mail: grad-coord@ae.msstate.edu
Website: http://www.ae.msstate.edu/

Graduate study is offered in the Department of Aerospace Engineering leading to the degrees of Master of Science and Doctor of Philosophy. Major areas of study are: fluid mechanics, aerodynamics, computational fluid dynamics, structures and composites, structural dynamics, design optimization, structural reliability, fatigue and fracture, dynamics and controls, satellite engineering, and orbital mechanics. The Raspet Flight Research Laboratory, operated by the Bagley College of Engineering, is a unique University facility for graduate aeronautical research and education and has been an integral part of the Aerospace Engineering Department activities for decades. The department is a major participant in CAVS where members of this faculty provide primary leadership in computational simulations. Other department facilities consist of a low speed wind tunnel, two blow-down supersonic wind tunnels, and a universal testing machine laboratory. Graduate research and teaching assistantships are available.

Admission Criteria
In addition to meeting the requirements discussed in the General Requirements for Admission section of this publication, the minimum requirement for regular admission to the graduate program is a B.S. degree in Aerospace Engineering or a closely related field, with a 3.00/4.00 GPA for the junior and senior years. An applicant with a B.S. degree from a program that is not accredited by EAC/ABET (Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology) must submit GRE general-test scores. Applicants required to take the TOEFL examination (see Admission section for more details) must have a minimum score of 550 PBT (213 CBT or 79 iBT) or an IELTS score of 6.5. Applicants for the Ph.D. program should have a M.S. degree in Aerospace Engineering or a closely related field. Exceptionally qualified applicants (GPA in excess of 3.50/4.00 for junior and senior years) can apply for direct admission to the Ph.D. program.

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

Provisional Admission—A student who has not fully met the requirements for regular admission may be granted admission as a degree-seeking graduate student with provisional status. Please refer to the General Requirements for Admission section for more details. The minimum acceptable undergraduate grade point average for admission as a provisional student is 2.75/4.00 for the junior and senior years.

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

a) The student maintains a B average or better on
   • all undergraduate prerequisite courses;
   • all graduate courses completed;
   • all graduate courses included on the program of study.

b) The student has no more than one grade less than C.

c) If the student registers for research credits in a given term, he/she receives a Satisfactory (S) grade at the end of the term.

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

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

The probationary period is defined to be one term (summer counts as one term if the student is enrolled). If at the end of the probationary period the student has not remedied his/her deficiency (i.e., has not achieved a 3.00 GPA, has not scheduled research credit hours and received a satisfactory grade), then his/her program of study will be terminated. A student may appeal termination of his/her program of study to the Aerospace Engineering graduate coordinator. If the appeal at the program level is unsuccessful, the student may then appeal to the college dean. If the appeal at the college level is unsuccessful, the student may then appeal to the Provost and Vice President for Academic Affairs.

Program of Study/Completion Requirements
In the thesis option a student must complete 24 hours of coursework for the master’s degree with half the work at the full graduate level (8000-level courses). The thesis option requires 6 hours of thesis research/thesis; the non-thesis option requires 9 hours of additional graduate coursework (33 hours) with at least 15 hours at the 8000 level. A master's degree student must pass a final oral examination upon completion of all course requirements.

The number of course hours required of a Ph.D. student depends on each student’s needs. A typical Ph.D. program of study includes 30 hours of coursework past the master’s degree, half of which are at the full graduate level (8000-level courses), plus a minimum of 20 hours of dissertation research/dissertation. In order to be admitted to candidacy for the Ph.D. degree, a student must pass a doctoral qualifying examination, have his/her dissertation topic approved, and sit for a candidacy examination. A final dissertation defense and an oral examination of the candidate are also required.

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

Graduate Courses—Course prerequisites are noted in parentheses.

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ASE 6013</td>
<td>Directed Project in ASE</td>
<td>3</td>
</tr>
<tr>
<td>ASE 6133</td>
<td>Automatic Control of Aerospace Vehicles (ASE 4123)</td>
<td>3</td>
</tr>
<tr>
<td>ASE 6153</td>
<td>Advanced Performance (ASE 2113 or consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>ASE 6163</td>
<td>Introduction to Flight Test Engineering (ASE 3313, ASE 4123)</td>
<td>3</td>
</tr>
<tr>
<td>ASE 6333</td>
<td>Helicopter Aerodynamics and Performance (Consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>ASE 6423</td>
<td>Introduction to Computational Fluid Dynamics (Consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>ASE 6433</td>
<td>Fundamentals of Numerical Grid Generation (Consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>ASE 6553</td>
<td>Engineering Design Optimization (Consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>ASE 6813</td>
<td>Advanced Orbital Mechanics (ASE 3813)</td>
<td>3</td>
</tr>
</tbody>
</table>
Agricultural and Biological Engineering

Dr. Jonathan Pote, Department Head
Dr. Radhakrishnan Srinivasan, Graduate Coordinator
150 Agricultural Engineering Building
Box 9632
Mississippi State, MS 39762
Telephone: 662-325-3282
E-mail: abe.head@abe.msstate.edu

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

Admission Criteria
Prerequisites for admission into the graduate program include all the general requirements of the Graduate School, an undergraduate engineering degree (or remedial engineering coursework), a satisfactory performance on the GRE for students with a degree from a program that is not EAC/ABET accredited, and identification of a departmental professor who is willing to serve as research director for the master’s or Ph.D. project. International students must obtain a TOEFL score of 550 PBT (213 CBT or 79 iBT) or IELTS score of 6.5 or higher.

Provisional Admission—If a student does not fully meet the admission requirements of the program, it may be possible for that student to be provisionally admitted. If provisionally admitted, the student must attain a 3.00 GPA on the first 9 hours of graduate courses taken at Mississippi State University. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.

If a student applying to the M.S. program does not have an undergraduate degree in engineering, the
student will be required to complete or have previous credit in 51 hours of engineering, mathematics, and physical science courses. The student will be granted contingent admission until the course requirement has been satisfied. Similarly, a student applying to the Ph.D. program must have a B.S. or M.S. degree in engineering. The same set of courses will be required before the student is fully admitted into the Ph.D. program.

Program of Study/Completion Requirements
The Master of Science (thesis only) in Biological Engineering requires 24 credit hours of coursework beyond the baccalaureate degree, at least one-half of which must be from 8000 level courses or above, and 6 or more credit hours of thesis research/thesis. Required courses are ST 8114, at least 1 credit hour of ABE 8911, ABE 8921, or ABE 8931, and at least one other graduate course from the Agricultural and Biological Engineering course listing. A thesis and an oral comprehensive examination in defense of the thesis are required. Doctoral students are required to take or have credit in a graduate level math course, complete a minimum of 60 credit hours of coursework beyond the baccalaureate degree, at least one-half of which must be from 8000 level courses or above, including at least 2 credit hours of ABE 8911, ABE 8921, or ABE 8931. Twenty hours of dissertation research/dissertation, a preliminary examination, a dissertation, and an oral examination in defense of the dissertation are required.

Academic Performance
Unsatisfactory performance in the graduate program in Agricultural and Biological Engineering is defined as any of the following: failure to maintain a B average in attempted graduate courses after admission to the program; a grade of U, D, or F in any one course; more than two grades below a B; failure of the preliminary exam (Ph.D. students only); failure of the research defense; unsatisfactory evaluation of a thesis or dissertation; or failure of a required component of the program of study. Any one of these, or a combination of these, will constitute the basis for review for possible dismissal. The graduate coordinator will review the record, along with the student’s graduate committee, and take a final course of action, which will be immediate dismissal or the establishment of a probationary period in which corrective action must take place. Appeal of dismissal can be made by submitting a written appeal statement to the department head. If the dismissal is upheld by the department head upon the student’s appeal, the student can then submit a written appeal to the dean of the College of Engineering.

Graduate Courses—Course prerequisites are noted in parentheses.

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
Dr. Jonathan Pote, Department Head
Dr. Steven Elder, Graduate Coordinator
100 Ag and Bio Engineering Building
Box 9632
Mississippi State, MS 39762
Telephone: 662-325-3282
E-mail: seller@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.

Program of Study/Completion Requirements
The M.S. degree requires 24 semester hours of coursework above the baccalaureate degree, at least half of which must be from 8000 level courses or above. In addition, 6 or more thesis research/thesis credit hours are required. As part of the 24 coursework hours, students must take: ABE 8501, ABE 8801, BIO 6514 or BIO 6114, and ST 8114. An oral comprehensive examination and a thesis are required. The Ph.D. degree requires that the student pass a qualifying exam, a preliminary exam, a dissertation defense, and a minimum of 48 coursework hours beyond the B.S., and 20-32 dissertation research/dissertation hours (for a total of 80 hours). In addition to the required course list for M.S. students, a Ph.D. student must also take a graduate-level mathematics course, or approved substitute, such as an additional graduate level statistics course.

The graduate committee for each M.S. and Ph.D. student will be composed of a minimum of four and five faculty members, respectively. Faculty members on the graduate Biomedical Engineering faculty hold
appointments in departments in the College of Engineering at MSU, the Department of Chemistry at MSU, the Department of Animal and Dairy Sciences at MSU, the College of Veterinary Medicine (CVM) at MSU, and in departments of the University of Mississippi Medical Center (UMC) in Jackson, MS. The following requirements for an M.S. graduate committee will apply: chair must be an MSU engineering faculty member; one member must be a clinician (CVM faculty, UMC faculty, or practicing clinician); two or more members must be engineers; and two or more members must be MSU faculty members. The following requirements for a Ph.D. graduate committee will apply: chair must be an MSU engineering faculty member; one member must be a clinician (CVM faculty, UMC faculty, or practicing clinician); three or more members must be engineers; and three or more members must be MSU faculty members.

**Academic Performance**

Unsatisfactory performance in the graduate program in Biomedical Engineering is defined as any of the following: failure to maintain a B average in attempted graduate courses after admission to the program; a grade of U, D, or F in any one course; more than two grades below a B; failure of the preliminary exam (Ph.D. students only); failure of the research defense; unsatisfactory evaluation of a thesis or dissertation; or failure of a required component of the program of study. Any one of these or a combination of these will constitute the basis for review for possible dismissal. The graduate coordinator will review the record along with the student’s graduate committee and take a final course of action which will be recommendation for immediate dismissal or the establishment of a probationary period in which corrective action must take place. Appeal of dismissal can be made by submitting a written appeal statement to the department head. If the dismissal is upheld by the department head upon the student’s appeal, the student can then submit a written appeal to the dean of the College of Engineering.

For more information, contact the Biomedical Engineering Graduate Program Coordinating Committee, Department of Agricultural and Biological Engineering, Box 9632, Mississippi State, MS 39762 or by e-mail at abe-head@abe.msstate.edu.

Information is also available at http://www.abe.msstate.edu.

**Selected Courses for the Biomedical Engineering Graduate Program:**

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

*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. Rafael Hernandez, Graduate Coordinator
330 Swalm Chemical Engineering Building
Box 9595
Mississippi State, MS 39762
Telephone: 662-325-2480
E-mail: gradstudies@che.msstate.edu

Graduate study is offered in the Dave C. Swalm School of Chemical Engineering leading to the degree of Master of Science in Chemical Engineering. Two options are available which include the traditional Chemical Engineering program and a program with emphasis in Industrial Hazardous Waste Management. The School also cooperates in an interdisciplinary program leading to the degree of Doctor of Philosophy in Engineering. Graduate research assistantships are available. To secure additional information, write to the Graduate Coordinator, Dave C. Swalm School of Chemical Engineering, Box 9595, Mississippi State, MS 39762.

**Admission Criteria**
**M.S. in Chemical Engineering; Ph.D. in Engineering (Chemical Engineering concentration)—**Admission criteria differ based on the graduate degree sought. GRE scores are required on the quantitative, analytical, and verbal sections.

**Direct Admission to the Ph.D. Program**
Cumulative GPA of 3.20 on the last 64 hours of undergraduate coursework and GRE

**Post M.S. - Ph.D. Program**
Cumulative GPA of 3.00 and GRE

**M.S. Program**
Cumulative GPA of 3.00 on the last 64 hours of undergraduate coursework and GRE

International students must have a TOEFL score of 550 PBT (213 CBT or 79 iBT) or 6.5 on the IELTS.

For those applicants not possessing a B.S. in Chemical Engineering or those coming from institutions that are not ABET-accredited, admission will be considered on a case-by-case basis. If accepted, those students will be required to complete the required prerequisites and the Chemical Engineering undergraduate core curriculum:

- Calculus sequence plus differential equations, general chemistry (two semesters), organic chemistry (two semesters), physical chemistry, calculus-based physics (two semesters).

**M.S.: Emphasis in Industrial Hazardous Waste Management**—The applicant must have a B.S. in an engineering discipline from an ABET-accredited program. Admission criteria requires a cumulative GPA of 3.00 and GRE score.

**Provisional Admission**—Provisional admission is typically not available to students applying for graduate admission to the Dave C. Swalm School of Chemical Engineering.

**Program of Study**
The direct-admission Ph.D. program requires a minimum of 36 hours of graduate coursework and a minimum of 20 hours of dissertation research/dissertation. For the post-M.S. Ph.D. program, a minimum of 12 hours of graduate coursework past the M.S. level and a minimum of 20 hours of dissertation research/dissertation are required. A student entering with an M.S. from another institution must demonstrate that he/she has satisfied the Chemical Engineering graduate core courses; if not, all or a portion of the 12 hours of core coursework may be required.

A minimum of 24 hours of coursework and 6 hours of Thesis/Research are required for the M.S. thesis-option degree. Requirements for the M.S. in Chemical Engineering include:

- CHE 8011 - Graduate Seminar
- Chemical Engineering Core (12 hours)
  - CHE 8113 Advanced Chemical Engineering Thermodynamics (Fall)
  - CHE 8123 Chemical Kinetics and Dynamics (Spring)
  - CHE 8223 Advanced Process Computations (Fall)
  - CHE 8523 Advanced Transport Phenomena (Spring)
- Mathematics/Statistics (minimum 6 hours at the 6xxx/8xxx level)
- Technical Electives (minimum 6 hours at the 6xxx/8xxx level) - technical electives are chosen in conjunction with the research advisor.

Requirements for the M.S. with emphasis in Industrial Hazardous Waste Management include 24 hours of coursework, at least half of which must be at the 8xxx level. A minimum of 6 hours of Thesis/Research is required. The composition of the program of study is flexible, providing the student an opportunity to select courses in conjunction with the research assistantship.
advisor that allow his/her concentration in a particular area of waste management and/or chemical engineering.

A non-thesis engineering master’s degree requires a minimum of 33 hours, 15 hours of which must be at the 8xxx level.

**Academic Performance**
The Dave C. Swalm School of Chemical Engineering is committed to maintaining high standards for the graduate programs offered by the school. As a means to ensure satisfactory performance of all graduate students enrolled in the school, the guidelines for unsatisfactory performance are given:

- Failure to maintain an overall B average (3.00) in graduate courses attempted after admission to the program
- More than two grades of C in graduate level courses
- A grade of D or F in a graduate level course
- Failure of the qualifying exam
- Unsatisfactory evaluation of a thesis or a dissertation
- Failure to maintain an overall B average (3.00) in prerequisite undergraduate courses
- Official withdrawal from school due to academic difficulties.

All students are expected to adhere to these standards. Failure to do so will result in the following actions by the Dave C. Swalm School of Chemical Engineering.

- A student who fails to maintain an overall B average in graduate courses will be given one semester to bring up her/his overall GPA in graduate level courses. If the student currently holds an assistantship from the school, said assistantship may be terminated. The student will be placed on probation for one semester. The graduate level courses taken during this probationary semester must be part of the graduate student’s program of study and should constitute a full load. Failure to attain an overall B average in graduate courses at the end of this probationary semester will result in dismissal from the graduate program.
- A student who earns more than two grades below a B, or earns a D or F in any graduate level course will be dismissed from the graduate program of the Dave C. Swalm School of Chemical Engineering.
- A student who officially withdraws from school during the semester due to academic difficulties will be dismissed from the graduate program of the Dave C. Swalm School of Chemical Engineering.

**Appeals Process**
A student who is dismissed on the basis of academic performance from a graduate program offered by the Dave C. Swalm School of Chemical Engineering may appeal the decision. The appeals procedure is:

- A student may appeal his/her dismissal from a graduate program by submitting a letter of appeal to the Appeals Committee. This letter should contain a detailed explanation of the circumstances leading to his/her dismissal (identified as one of seven points listed in academic performance policy) and should explain any extenuating circumstances leading to failure to maintain satisfactory academic progress.
- The Appeals Committee shall be composed of five members:
  - Director of the Swalm School of Chemical Engineering
  - Graduate Coordinator of Chemical Engineering
  - Major professor for the student
  - A professor from another department within the College of Engineering (asked to serve by the Director and/or Graduate Coordinator of Chemical Engineering)
  - Associate Dean for Research and Graduate Studies for the College of Engineering.
- The Appeals Committee will review the provided documentation and reach a consensus decision on whether to uphold or overturn the dismissal. If the appeal at the program level is unsuccessful, the student may then appeal to the college dean. If the appeal at the college level is unsuccessful, the student may then appeal to the Provost and Vice President for Academic Affairs.

**Completion Requirements for M.S. Students**
All M.S. students submitting a thesis must successfully defend the thesis before a committee composed of faculty members of the University. All non-thesis MS student must satisfactorily complete a comprehensive examination.

**Completion Requirements for Ph.D. Students**
Qualifying Examination: A Ph.D. student in good standing must complete a qualifying exam during the summer semester following his/her first full academic year. The qualifying exam consists of satisfactory completion of a research proposition course in which students will be guided through development of a National Science Foundation-formatted research proposal and a final defense of the proposal in front of a committee composed of University graduate faculty.

Comprehensive Examination: Upon satisfactory completion of the graduate coursework, or within 6 hours of completion, a Ph.D. student must stand for a comprehensive examination. The student must present to his/her defense committee the results to date and planned research efforts through the completion of the Ph.D. program. This oral comprehensive examination will be comprised of a presentation by the student and a resulting question...
and answer session; it will provide a measure of the student’s research skills and research progress. The comprehensive examination must be passed at least six months prior to graduation. Successful completion of the comprehensive exam will result in the Ph.D. student’s being admitted to Ph.D. candidacy.

Dissertation Defense: The candidate must also prepare and successfully defend her/his dissertation before a committee composed of faculty members of the University.

Prerequisite and Core Courses
Course prerequisites are noted in parentheses. A C or better is required in any prerequisite course with CHE as a designation.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHE 6113</td>
<td>Chemical Reactor Design (MA 3253, C or better in both CHE 3123 and MA 3253) 3 hours</td>
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<tr>
<td>CHE 6134</td>
<td>Process Design (IE 3913, and C or better in the following three courses: CHE 3123, CHE 3213, and CHE 3223) 4 hours</td>
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<tr>
<td>CHE 6193</td>
<td>Automotive Engineering. 3 hours</td>
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<tr>
<td>CHE 6223</td>
<td>Process Instrumentation and Control (CHE 4113, C or better in CHE 3223) 3 hours</td>
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<tr>
<td>CHE 6233</td>
<td>Chemical Plant Design (CHE 4113, CHE 4134) 3 hours</td>
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<tr>
<td>CHE 6313</td>
<td>Transport Phenomena (Grade of C or better in the following courses: CHE 3213, MA 3253, and either CHE 3203 or EM 3313) 3 hours</td>
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<tr>
<td>CHE 6423</td>
<td>Fundamentals of Industrial Corrosion (CHE 3413). 3 hours</td>
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<tr>
<td>CHE 6513</td>
<td>Pulp and Paper Manufacturing Processes (CHE 2114, consent of instructor). 3 hours</td>
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<tr>
<td>CHE 6613</td>
<td>Air Pollution Control Design: Theory and Practice (Consent of instructor). 3 hours</td>
<td></td>
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<tr>
<td>CHE 6623</td>
<td>Chemical Process Safety. 3 hours</td>
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<tr>
<td>CHE 6624</td>
<td>Experimental Methods in Materials Research (CHE 3413). 4 hours</td>
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<td>CHE 6673</td>
<td>Industrial Microbiology. 3 hours</td>
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<tr>
<td>CHE 6703</td>
<td>Gas Hydrates (Consent of instructor). 3 hours</td>
<td></td>
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<tr>
<td>CHE 6990</td>
<td>Special Topics in Chemical Engineering. 3 hours</td>
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<tr>
<td>CHE 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<tr>
<td>CHE 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>CHE 8011</td>
<td>Chemical Engineering Seminar. 1 hour</td>
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<tr>
<td>CHE 8113</td>
<td>Advanced Chemical Engineering Thermodynamics (CHE 3123, CHE 4113). 3 hours</td>
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<td>CHE 8123</td>
<td>Chemical Kinetics and Dynamics (Consent of instructor). 3 hours</td>
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<td>CHE 8223</td>
<td>Advanced Process Computations (CHE 3223). 3 hours</td>
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<tr>
<td>CHE 8233</td>
<td>Advanced Momentum, Heat, and Mass Transfer (CHE 3223). 3 hours</td>
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<tr>
<td>CHE 8243</td>
<td>Advanced Equilibrium Stage Operations (CHE 3223). 3 hours</td>
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<tr>
<td>CHE 8323</td>
<td>Corrosion of Metals. 3 hours</td>
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<tr>
<td>CHE 8523</td>
<td>Advanced Transport Phenomena. 3 hours</td>
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<td>CHE 8713</td>
<td>Scientific Proposal Instruction and Development. 3 hours</td>
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<td>CHE 8990</td>
<td>Special Topics in Chemical Engineering. 3 hours</td>
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<tr>
<td>CHE 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>

Civil and Environmental Engineering
Dr. Dennis D. Truax, Department Head
Dr. James Martin, Graduate Coordinator
235 Walker Hall
Box 9546
Mississippi State, MS 39762
Telephone: 662-325-3050
E-mail: grad-coordinator@cee.msstate.edu

The Civil and Environmental Engineering Department offers graduate study leading to degrees of Master of Science (M.S.) and Doctor of Philosophy (Ph.D.). Both the M.S. and Ph.D. are available via BCoE Learning (online). Major areas of study are: construction engineering and management, construction materials engineering, environmental engineering, geotechnical engineering, structural engineering, transportation engineering, and water resources engineering. The Kelly Gene Cook, Sr. Civil and Environmental Engineering Laboratories include research capabilities in the areas of construction materials evaluation, environmental analysis of water and soils, structural systems analysis, geotechnical materials evaluation, structural systems analysis, transportation system modeling, and water resources characterization. Graduate assistantships are supported through sponsored research, instructional support and teaching assignments, and other departmental resources when available from the University, college, and department.

For information about the graduate program contact: Graduate Coordinator, Civil and Environmental Engineering Department, Box 9546, Mississippi State, MS 39762-9546, or send electronic requests to grad-coordinator@cee.msstate.edu. Information about the Department of Civil and Environmental Engineering
graduate program can be found at the department’s Website: http://www.cee.msstate.edu.

Admission Criteria
Prerequisites for regular admission to the Civil Engineering graduate program include all of the general requirements of the Office of the Graduate School. The minimum GPA for acceptance into the Civil and Environmental Engineering graduate program is 3.00 on a 4.00 scale. Graduates of a non-ABET program must submit acceptable GRE scores (verbal and quantitative). International students are required to have a minimum Test of English as a Foreign Language (TOEFL) score of 550 PBT (213 CBT or 79 iBT) or an International English Language Testing Systems (IELTS) score of 6.5. Students must possess core competency in the sub-discipline in which they will focus their graduate studies. Applicants who do not meet the requirements for regular admission may be considered for contingent or provisional admission at the discretion of the department.

Contingent Admission—Applicants meeting University requirements for admission but failing to meet the Department’s requirements for regular admission may be considered for contingent admission. To be removed from contingent status, the student must successfully complete remedial prerequisite courses defined by the graduate advisor.

Provisional Admission—A student accepted with a GPA of less than 3.00 is admitted on a provisional status. In such case, the student must achieve a minimum 3.00 GPA for the first 9 hours of graduate coursework. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. An applicant with a bachelor’s degree major other than civil environmental engineering may be required to take remedial courses to prepare for graduate studies. Undergraduate remedial courses will be taken for no credit and a grade of B or better is required.

Program of Study/Completion Requirements
Thesis and non-thesis options are available for the Master of Science in Civil and Environmental Engineering. For the thesis option, the student must successfully complete a minimum of 24 hours of graduate courses, 6 hours of thesis research, and successfully submit and defend a research thesis. One-half of the coursework must be from upper level graduate courses (7000, 8000, and 9000). 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.

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 also 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CE 6103</td>
<td>Pavement Materials and Design (Grade of C or better in CE 3313 and CE 3413). 3 hours</td>
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<tr>
<td>CE 6143</td>
<td>Traffic Engineering (Grade of C or better in CE 3113, credit in ST 3123). 3 hours</td>
</tr>
<tr>
<td>CE 6183</td>
<td>Waterborne Transportation (Grade of C or better in CE 3113). 3 hours</td>
</tr>
<tr>
<td>CE 6233</td>
<td>Control Surveys. (Grade of C or better in CE 2213). 3 hours</td>
</tr>
<tr>
<td>CE 6243</td>
<td>Land Surveys (Grade of C or better in CE 2213). 3 hours</td>
</tr>
<tr>
<td>CE 6313</td>
<td>Advanced Concrete Materials (Grade of C or better in CE 3313). 3 hours</td>
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<tr>
<td>CE 6513</td>
<td>Engineering Hydrology (Grade of C or better in CE 3803 or consent of instructor). 3 hours</td>
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<tr>
<td>CE 6523</td>
<td>Open Channel Hydraulics (Grade of C or better in CE 3813 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>CE 6533</td>
<td>Computational Methods in Water Resources Engineering (Grade of C or better in CE 3813). 3 hours</td>
</tr>
<tr>
<td>CE 6543</td>
<td>Advanced Reinforced Concrete (Grade of C or better in CE 4601 and CE 4633). 3 hours</td>
</tr>
<tr>
<td>CE 6563</td>
<td>Sedimentation Engineering (Grade of C or better in CE 4523/6523). 3 hours</td>
</tr>
<tr>
<td>CE 6603</td>
<td>Indeterminate Structures I (Grade of C or better in CE 3603). 3 hours</td>
</tr>
<tr>
<td>CE 6613</td>
<td>Analysis of Structures for Forces of Nature (Grade of C or better in CE 4601; credit or current enrollment in CE 4623 or 4601). 3 hours</td>
</tr>
<tr>
<td>CE 6653</td>
<td>Timber Design (Grade of C or better in CE 3603 and CE 3601). 3 hours</td>
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<tr>
<td>CE 6663</td>
<td>Matrix Methods of Structural Analysis (Grade of C or better in CE 4603/6603, or consent of instructor). 3 hours</td>
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<tr>
<td>CE 6673</td>
<td>Bridge Design (Grade of C or better in CE 4601 and CE 4633 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>CE 6683</td>
<td>Advanced Steel Design. (CE 4623). 3 hours</td>
</tr>
<tr>
<td>CE 6693</td>
<td>Reliability of Structures (IE 4613; credit or current enrollment in CE 4623 or CE 4633; or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>CE 6703</td>
<td>Construction Engineering and Management (Consent of instructor). 3 hours</td>
</tr>
<tr>
<td>CE 6733</td>
<td>Construction Engineering Equipment and Methods. 3 hours</td>
</tr>
<tr>
<td>CE 6843</td>
<td>Environmental Engineering Chemistry (Grade of C or better in CE 3803 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>CE 6873</td>
<td>Water and Wastewater Engineering (Grade of C or better in CE 3803). 3 hours</td>
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<tr>
<td>CE 6893</td>
<td>Hazardous Waste Management (Consent of instructor). 3 hours</td>
</tr>
<tr>
<td>CE 6903</td>
<td>Civil Engineering Comprehensive (Graduation semester). 3 hours</td>
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<tr>
<td>CE 6990</td>
<td>Special Topics in Civil Engineering.</td>
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<tr>
<td>CE 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<tr>
<td>CE 8000</td>
<td>Thesis Research/Thesis. Credit hours to be arranged; minimum of 6 hours required for degree</td>
</tr>
<tr>
<td>CE 8133</td>
<td>Traffic Flow Theory (Grade of C or better in CE 4143/6143 or equivalent). 3 hours</td>
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<tr>
<td>CE 8203</td>
<td>Finite Element Modeling in CEE (EM 4123/6123 and consent of instructor). 3 hours</td>
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<tr>
<td>CE 8303</td>
<td>Material Characterization (CE 3413 and CE 3313 or equivalent). 3 hours</td>
</tr>
<tr>
<td>CE 8313</td>
<td>Pavement Performance and Rehabilitation (CE 3413, 3313, and CE 4103/6103, or consent of instructor). 3 hours</td>
</tr>
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</table>
CE 8323 Inelasticity (EM 8113 and EM 8203). 3 hours
CE 8333 Advanced Pavement Materials (CE 3413 and CE 3313 or equivalent). 3 hours
CE 8343 Advanced Pavement Materials (CE 3413 and CE 3313, or equivalent). 3 hours
CE 8433 Advanced Foundations (Grade of C or better in CE 4433 or equivalent). 3 hours
CE 8453 Physical Properties of Soils (Grade of C or better in CE 3413 or equivalent). 3 hours
CE 8473 Theoretical Soil Mechanics. 3 hours
CE 8503 Data Analysis for CEE (MA 3253). 3 hours
CE 8533 Hydromechanics (Consent of instructor). 3 hours
CE 8543 Tidal Hydraulics (Consent of instructor). 3 hours
CE 8553 Rivers, Estuaries & Coasts. 3 hours
CE 8563 Groundwater Resource Evaluation (Grade of C or better in CE 3813). 3 hours
CE 8573 Hydro-environmental Analysis (Consent of instructor). 3 hours
CE 8593 Environmental Hydrology (Consent of instructor). 3 hours
CE 8613 Advanced Design in Metals (Consent of instructor). 3 hours
CE 8623 Theory of Plates and Shells (Grade of B or better in CE 3603 or consent of instructor). 3 hours
CE 8643 Prestressed Concrete (Grade of C or better in CE 4633 and CE 4601 or equivalent). 3 hours
CE 8663 Advanced Computational Methods in Structural Analysis (Grade of B or better in CE 4663/6663 or consent of instructor). 3 hours
CE 8673 Blast Effects and Structures Responses. 3 hours
CE 8683 Finite Element Analysis in Structural Engineering (CE 4663/6663 or equivalent). 3 hours
CE 8693 Advanced Structural Design (CE 4623 and CE 4633). 3 hours
CE 8803 Unit Processes and Operations in Environmental Engineering I. 3 hours
CE 8823 Unit Processes and Operations in Environmental Engineering II. 3 hours
CE 8843 Water Treatment Plant Design (Grade of B or better in CE 8803). 3 hours
CE 8863 Solid Waste Management (Consent of instructor). 3 hours
CE 8893 Industrial Waste Management (Consent of instructor). 3 hours
CE 8923 Surface Water Quality Modeling (Consent of instructor). 3 hours
CE 8933 Surface Water Quality Modeling (CE 8923). 3 hours
CE 8953 Fine Sediment Processes (Consent of instructor). 3 hours
CE 8963 Hydraulics of Closed Conduits (Consent of instructor). 3 hours
CE 8990 Special Topics in Civil Engineering.
CE 9000 Dissertation Research/Dissertation. Credit hours to be arranged; minimum of 20 hours required for degree

Computational Engineering
An Interdisciplinary Curriculum
Dr. Roger King, Graduate Coordinator
2115 Center for Advanced Vehicular Systems (CAVS)
Box 9618
Mississippi State, MS 39762
Telephone: 662-325-2189
E-mail: grad-coordinator@hpc.msstate.edu

The Computational Engineering graduate program is interdisciplinary, with faculty drawn from the academic departments of the College of Engineering and the College of Arts and Sciences, as well as the research faculty of the HPC. 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.

Admission Criteria
To be admitted, the student must meet the admission requirements of the Office of the Graduate School, receive a positive recommendation from the Computational Engineering screening committee, and be accepted as a student by a member of the Computational Engineering graduate faculty. International students must have scored at least 550 PBT (213 CBT or 79 iBT) on the Test of English as a Foreign Language (TOEFL) or 6.5 on the International English Language Testing System (IELTS). Students with a degree from a program that is not EAC/ABET accredited must have a satisfactory performance on the GRE.
In addition, highly qualified undergraduate students, with a minimum equivalent GPA of 3.50/4.00 on the last 60 credit hours of undergraduate courses, or a first class with distinction degree classification for students from institutions where no GPA is reported, or a satisfactory performance on the GRE for students from a non-ABET-accredited program, can be directly admitted to the Ph.D. program.

**Provisional Admission**—Because of the interdisciplinary nature of the Computational Engineering program, virtually all students are required to take some prerequisite courses. Nevertheless, all students admitted to the program are granted regular admission. Provisional admission is not approved.

**Program of Study**

The specific requirements for the degrees are governed by the requirements of the Office of the Graduate School, the College of Engineering, and by the student’s graduate committee. The committee must include at least one Computational Engineering faculty member from each of the following areas: 1) a Computational Engineering application area, 2) high-performance computing, and 3) numerical mathematics. The graduate committee will ensure that the student’s program of study adequately addresses each of the three primary cross-disciplinary areas (an application area, high-performance computing, and numerical mathematics), and students are encouraged to include one or more courses in scientific visualization or graphics. The composition of the graduate committee and the student’s program of study must be approved by the Computational Engineering Program Coordinator.

**Academic Performance**

Continued enrollment in the graduate program in Computational Engineering is dependent upon satisfactory performance in the courses and satisfactory progress toward completion of the degree. To achieve satisfactory performance, a student must

1. maintain a B average on:
   a) all undergraduate prerequisite courses;
   b) all graduate courses completed after admission to the program;
   c) all graduate courses included on the student’s program of study;
2. have no more than one grade less than C;
3. have a major advisor and a supervisory committee (after the first two semesters of enrollment).

Should a student’s cumulative grade point average (in any of the three categories above) be less than 3.00 at the end of a term, the student will be placed on “probation” and will be given one semester to earn a cumulative grade point average of 3.00 or greater. If at the end of the probationary term the student’s cumulative grade point average (in any of the three categories above) is less than 3.00, the student’s program of study will be terminated immediately. If the student enrolls in the summer term, it will count as one term.

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

**Prerequisite and Core Courses**

Because of the interdisciplinary nature of the Computational Engineering program, courses listed below are typical of those 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>Hours</th>
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</thead>
<tbody>
<tr>
<td>ASE 6423</td>
<td>Introduction to Computational Fluid Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ASE 6433</td>
<td>Fundamentals of Numerical Grid Generation</td>
<td>3</td>
</tr>
<tr>
<td>ASE 6553</td>
<td>Engineering Design Optimization</td>
<td>3</td>
</tr>
<tr>
<td>ASE 8363</td>
<td>Computational Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>ASE 8413</td>
<td>Computational Fluid Dynamics I</td>
<td>3</td>
</tr>
<tr>
<td>ASE 8423</td>
<td>Computational Fluid Dynamics II</td>
<td>3</td>
</tr>
<tr>
<td>ASE 8533</td>
<td>Advanced Numerical Grid Generation</td>
<td>3</td>
</tr>
<tr>
<td>CE 6663</td>
<td>Matrix Methods of Structural Analysis (CE 4603/6603 or consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>CE 8663</td>
<td>Computational Methods in Structural Analysis (CE 4663/6663 with grade of B or better or consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>CE 8683</td>
<td>Finite Element Analysis (CE 4663/6663)</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>CHE 8113</td>
<td>Advanced Chemical Engineering Thermodynamics (CHE 3123 and CHE 4113). 3 hours</td>
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<tr>
<td>CHE 8123</td>
<td>Chemical Kinetics and Dynamics (Consent of instructor). 3 hours</td>
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<tr>
<td>CHE 8223</td>
<td>Advanced Process Computations (CHE 3223). 3 hours</td>
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<tr>
<td>CHE 8523</td>
<td>Advanced Transport Phenomena (Consent of instructor). 3 hours</td>
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<tr>
<td>EM 8203</td>
<td>Applied Elasticity. 3 hours</td>
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<tr>
<td>EM 6213</td>
<td>Advanced Mechanics of Materials (EM 3213). 3 hours</td>
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<tr>
<td>IE 6113</td>
<td>Human Factors Engineering. 3 hours</td>
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<tr>
<td>IE 6123</td>
<td>Psychology of Human Computer Interface (IE 4113/6113 or consent of instructor). 3 hours</td>
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<tr>
<td>IE 6613</td>
<td>Engineering Statistics I (MA 1723). 3 hours</td>
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<tr>
<td>IE 6623</td>
<td>Engineering Statistics II (Grade of C or better in IE 4613/6613). 3 hours</td>
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<tr>
<td>IE 6713</td>
<td>Operation Research I (CSE 1213 or IE 4613). 3 hours</td>
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<tr>
<td>IE 6733</td>
<td>Linear Programming I (MA 3113). 3 hours</td>
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<tr>
<td>IE 6753</td>
<td>Systems Engineering and Analysis (IE 4613). 3 hours</td>
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<tr>
<td>IE 6773</td>
<td>System Simulation I (Grade of C or better in IE 4613 and IE 4934). 3 hours</td>
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<tr>
<td>IE 8153</td>
<td>Cognitive Error. 3 hours</td>
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<tr>
<td>IE 8723</td>
<td>Operation Research II (IE 4713/6713). 3 hours</td>
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<tr>
<td>IE 8743</td>
<td>Nonlinear Programming I (IE 4733 or MA 4733). 3 hours</td>
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<tr>
<td>IE 8753</td>
<td>Dynamic Programming (MA 2733 and IE 4613). 3 hours</td>
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<tr>
<td>IE 8773</td>
<td>System Simulation II (IE 4773/6773 or CSE 4023/6023). 3 hours</td>
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<tr>
<td>IE 8783</td>
<td>Neural Networks in Optimization (IE 4733/6733). 3 hours</td>
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<tr>
<td>ME 8243</td>
<td>Finite Elements in Mechanical Engineering (ME 4403 and EM 3213). 3 hours</td>
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<tr>
<td>ME 8223</td>
<td>Inelasticity (EM 8113 and EM 8203). 3 hours</td>
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<tr>
<td>ME 8813</td>
<td>Viscous Flow I. 3 hours</td>
<td></td>
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<tr>
<td>ME 8823</td>
<td>Viscous Flow II (ME 8813 or equivalent). 3 hours</td>
<td></td>
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<tr>
<td>ME 8843</td>
<td>Unstructured Grid Technology (ASE 8413). 3 hours</td>
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<tr>
<td>PH 6213</td>
<td>Intermediate Mechanics (PH 1133 or PH 2233 and MA 2733). 3 hours</td>
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<tr>
<td>PH 6323</td>
<td>Electromagnetic Fields I (PH 1133 or PH 2233 and MA 2733). 3 hours</td>
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<tr>
<td>PH 6413</td>
<td>Thermal Physics (PH 3613 and MA 2743). 3 hours</td>
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<tr>
<td>PH 6433</td>
<td>Computational Physics (PH 3613 and MA 3253). 3 hours</td>
<td></td>
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<tr>
<td>PH 6513</td>
<td>Intermediate Optics (PH 1123 or PH 2233 and MA 2733). 3 hours</td>
<td></td>
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<tr>
<td>PH 6713</td>
<td>Intro Quantum Mechanics (PH 3613 and MA 3253). 3 hours</td>
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<tr>
<td>PH 6813</td>
<td>Intro Solid State Physics (PH 3613). 3 hours</td>
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<tr>
<td>PH 8213</td>
<td>Mechanics (Consent of instructor). 3 hours</td>
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<tr>
<td>PH 8313</td>
<td>Electromagnetic Theory (PH 4333/6333 or equivalent). 3 hours</td>
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<tr>
<td>PH 8513</td>
<td>Statistical Mechanics (PH 4713 and PH 4413). 3 hours</td>
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<tr>
<td>PH 8743</td>
<td>Quantum Mechanics I (PH 4723/6723 and MA 3313). 3 hours</td>
<td></td>
</tr>
<tr>
<td>PH 8753</td>
<td>Quantum Mechanics II (PH 4723/6723 and MA 3313). 3 hours</td>
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**High Performance Computing:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CSE 6163</td>
<td>Designing Parallel Algorithms (CSE 3324 or CSE 4733/6733 with grade of C or better). 3 hours</td>
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<tr>
<td>CSE 6214</td>
<td>Software Engineering (CSE 2383 with grade of C or better). 3 hours</td>
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<tr>
<td>CSE 6233</td>
<td>Software Architecture and Design Paradigms (CSE 4214/6214 with a grade of C or better). 3 hours</td>
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<tr>
<td>CSE 6283</td>
<td>Software Testing and Quality Assurance (CSE 4214/6214 with a grade of C or better). 3 hours</td>
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<tr>
<td>CSE 8233</td>
<td>Software Engineering Project Management (CSE 4214/6214). 3 hours</td>
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<tr>
<td>CSE 8243</td>
<td>Software Specification (CSE 4214/6214). 3 hours</td>
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<tr>
<td>CSE 8253</td>
<td>Software Design (CSE 4214/6214). 3 hours</td>
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<tr>
<td>CSE 8263</td>
<td>Software Verification and Validation (CSE 3813 and either CSE 4214/6214 or CSE 8253). 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). 3 hours</td>
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<tr>
<td>CSE 8733</td>
<td>Advanced Systems Programming (CSE 4733/6733). 3 hours</td>
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<tr>
<td>CSE 8833</td>
<td>Algorithms (CSE 4833/6833). 3 hours</td>
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<tr>
<td>CSE 8843</td>
<td>Complexity of Sequential and Parallel Algorithms (CSE 4833/6833). 3 hours</td>
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<tr>
<td>CSE 9133</td>
<td>Topics in High Performance Computing (Consent of instructor). 3 hours</td>
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<tr>
<td>ECE 6713</td>
<td>Computer Architecture (ECE 3724 with a grade of C or better). 3 hours</td>
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<tr>
<td>ECE 8063</td>
<td>Parallel Computing Architectures I ECE 4713/6713 and CSE 4113/6113). 3 hours</td>
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<tr>
<td>ECE 8073</td>
<td>Parallel Computing Architectures II (ECE 8063 and/or consent of instructor). 3 hours</td>
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**Numerical Mathematics:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MA 6313</td>
<td>Numerical Analysis I (CSE 1213 or equivalent, MA 3113 and MA 2743). 3 hours</td>
<td></td>
</tr>
<tr>
<td>MA 6323</td>
<td>Numerical Analysis II (CSE 1213 or equivalent, MA 3113 and MA 3253). 3 hours</td>
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</tbody>
</table>
MA 8363  Numerical Solution of Systems of Nonlinear Equations (MA 4313/6313 and MA 4323/6323). 3 hours
MA 8383  Numerical Solution of Ordinary Differential Equations I (MA 4313/6313 and MA 4323/6323). 3 hours
MA 8393  Numerical Solution of Ordinary Differential Equations II (MA 8383). 3 hours
MA 8443  Numerical Solution of Partial Differential Equations I (MA 4313/6313, MA 4323/6323, and MA 4373/6373 or consent of instructor). 3 hours
MA 8453  Numerical Solution of Partial Differential Equations II (MA 8443). 3 hours
MA 8463  Numerical Linear Algebra (MA 4323/6323). 3 hours
MA 8473  Advanced Numerical Analysis I (MA 4933/6933). 3 hours
MA 8483  Advanced Numerical Analysis II (MA 8473). 3 hours

**Graphics and Visualization:**
CSE 6413  Principles of Computer Graphics (MA 3113, and grade of C or better in CSE 2383). 3 hours
CSE 8413  Visualization (CSE 4413/6413). 3 hours
CSE 8433  Advanced Computer Graphics (CSE 4413/6413). 3 hours
ECE 6413  Digital Signal Processing (Grade of C or better in ECE 3163). 3 hours
ECE 8413  Digital Spectral Analysis (ECE 3163 or consent of instructor). 3 hours
ECE 8423  Adaptive Signal Processing (ECE 3163 or consent of instructor). 3 hours
ECE 8433  Statistical Signal Processing (MA 4533/6533 or consent of instructor). 3 hours
ECE 8443  Pattern Recognition (MA 4533/6533 or consent of instructor). 3 hours
ECE 8453  Intro to Wavelets (ECE 3163 or consent of instructor). 3 hours
ECE 8473  Digital Image Processing (CSE 1233, CSE 1284 or equivalent, ECE 4413/6413). 3 hours
ECE 8483  Image and Video Coding (ECE 8473 or consent of instructor). 3 hours

**Special Topics, Individual Study, Thesis and Dissertation Research:**
CME 6990  Special Topics in Computational Engineering. 1-9 hours
CME 7000  Directed Individual Study. 1-6 hours
CME 8000  Thesis Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree
CME 8990  Special Topics in Computational Engineering. 1-9 hours
CME 9000  Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree

**M.S. Completion Requirements**
Both a thesis (research) option and a project (professional) option are offered. For the research option, successful completion of at least 24 credit hours of graduate coursework (at least 12 hours at the 8000 level) plus submission and defense of a 6-hour research thesis are required.

For the professional degree option, successful completion of at least 33 credit hours of graduate coursework and a professional project are required. No more than three hours of credit for the project can be applied toward the required 33 hours. At least 15 hours of coursework on the program of study must be at the 8000 or higher level.

**Ph.D. Completion Requirements**
Each candidate for the doctoral degree must conduct research and present a dissertation on that research that 1) demonstrates a mastery of the techniques of research and 2) makes a very distinct contribution to the field of Computational Engineering. The dissertation must conform to the rules of the Office of the Graduate School.

For direct-admit Ph.D. students, 72 credit hours beyond the B.S. are required (48 credit hours of coursework and 24 credit hours of dissertation research).

**Computer Science and Engineering**
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Website: http://www.cse.msstate.edu

Graduate study is offered in the Department of Computer Science and Engineering leading to the degrees of Master of Science in computer science and Doctor of Philosophy in computer science.

The program of study of a Master of Science in computer science degree includes advanced courses in computer science that are selected according to the goals of the student. The program of study includes a thesis option, a professional project option, or courses-only option. The program of study of a
Doctor of Philosophy (Ph.D.) in computer science degree includes advanced courses in computer science and significant scholarly research in computer science, presented in a dissertation. Applicants with bachelor degrees can apply for direct admission to the Ph.D. program. Applicants with master’s degrees are also welcome. 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 international students when English is not the official first language of home country)
- scores on the general test of the Graduate Record Examination (GRE)
- three letters of recommendation
- statement of the applicant’s career goals and objectives
- application fee

International students will also need:
- Document of Support Form and associated documentation.

In addition, the applicant is encouraged to submit directly to the Department of Computer Science and Engineering any additional information (such as GRE subject test scores, résumé, etc.) that supports his/her application.

The department’s application form for assistantships is separate from the application for graduate admission. This application can be downloaded from http://www.cse.msstate.edu/prospective/grad/assistantships.php. For additional information visit the departmental Website.

Application Dates—Applications may be submitted at any time. Completed applications should be received by the dates specified by the Office of the Graduate School. Preference for awarding assistantships will be given to applications received by February 1 for Summer or Fall Semester admission and October 1 for Spring Semester admission.

M.S. Admission Requirements
Regular Admission to the M.S. Program—For regular admission to the Master of Science program, the applicant must
- satisfy the minimum requirements for admission to graduate study as specified in the Mississippi State University Bulletin of the Graduate School (http://www.grad.msstate.edu/pdf/bulletin.pdf) and submit all documents as required in the application procedure;
- possess those qualifications and interests that indicate to the Computer Science and Engineering Graduate Studies Committee that the applicant will be successful in the MSU computer science Master of Science program;
- have a minimum TOEFL (Test of English as a Foreign Language) score of 550 PBT (213 CBT or 79 iBT) or IELTS (International English Language Testing System) score of 6.5. (This applies only to international students. The University may waive the TOEFL requirement for international students who hold a degree from a U.S. Institution).

Contingent Admission to the M.S. Program—An applicant who fails to meet the requirements for regular admission may be considered for contingent admission by the Graduate Studies Committee. Contingent admission may be granted under the following conditions:
- An international student with a TOEFL score of less than 550 (213 CBT or 79 iBT) or IELTS of 6.5 but at least 500 PBT (173 CBT or 61 iBT) or 5.5 on the IELTS may be admitted. To achieve regular admission status, the student will be required to complete satisfactorily the appropriate English as a Second Language sequence of courses; see the MSU Graduate School Bulletin (General Requirements for Admission, English Language Requirements for International Students) for specific requirements.
- An applicant who has not yet taken the GRE but who has a computer science baccalaureate degree from a U.S. institution may be admitted, but only on a contingency basis. To achieve regular admission status, the student will be required to take the GRE General Test in his or her first semester and obtain a satisfactory composite GRE score.
- A student who has not completed the undergraduate prerequisites may be given 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 BS/MS Program Admission Requirements
The 5-Year BS/MS Program enables a student to complete both a bachelor’s degree in Computer Science or Software Engineering and a master’s degree in Computer Science in approximately five years. The program has the following features.
A student must apply for admission to the program no sooner than the end of the sophomore year (60 hours or more of graded courses). The criteria for admission assesses whether the applicant possesses those qualifications and interests that indicate to the department’s Graduate Studies Committee that the applicant will be successful in the MSU M.S. in Computer Science program. The applicant must have an overall GPA of 3.5.

The admission application package to the program must have all of the elements of an application package for the M.S. degree, including GRE scores, and application fee.

A student must have senior standing to enter the program. A student is classified as an undergraduate until all the requirements for the undergraduate degree are fulfilled, at which point the student is then classified as a graduate student.

A maximum of 9 hours of graduate courses taken after entering the program and prior to completing the bachelor’s degree can count toward both the bachelor’s degree and the program of study for the Master of Science in Computer Science degree. In order to count toward the master’s degree, such courses must conform to other requirements for the M.S. degree. The program will follow procedures established by the Registrar for dual counting.

During the senior year, if a student in the program enrolls in any graduate courses during a given term, then the maximum load of combined graduate and undergraduate courses is 16 credits during that fall or spring semester, or 6 credits during that summer (all summer terms combined).

During the senior year, approval to enroll in graduate courses will be granted by the department’s graduate coordinator.

During the senior year, graduate courses at the 6000-level will count toward the Bachelor of Science degree similarly to the corresponding 4000-level courses.

During the senior year, graduate courses at the 7000-level or above will count toward the Bachelor of Science degree as technical electives.

Upon earning the bachelor’s degree and making satisfactory progress, the student will be admitted to the Master of Science in Computer Science program. The department’s graduate coordinator will initiate the graduate admission process by the end of the first semester of the senior year.

After earning the bachelor’s degree, the student will complete the M.S. degree requirements in the normal manner.

An undergraduate student may opt out of the program at any time and complete only the undergraduate portion of the program. No additional dual counting will occur after opting out.

Ph.D. Admission Requirements

Regular Admission to the Ph.D. Program—For regular admission to the doctoral program, the applicant must

1. satisfy the minimum requirements for admission to graduate study as specified in the Mississippi State University Bulletin of the Graduate School (http://www.grad.msstate.edu/pdf/bulletin.pdf) and submit all documents as required in the application procedure below;

2. possess those qualifications and research interests that indicate to the Computer Science and Engineering Graduate Studies Committee that the applicant will be successful in the computer science doctoral program; and

3. have a minimum TOEFL (Test of English as a Foreign Language) score of 550 PBT (213 CBT or 79 iBT) or IELTS (International English Language Testing System) score of 6.5. (This applies only to international students. The University may waive the TOEFL requirement for international students who hold a degree from a U.S. institution.)

Some students have master’s degrees when they begin their Ph.D. studies, and some students pursue a Ph.D. degree directly after earning a bachelor’s degree (a “Direct Ph.D.”).

Contingent Admission to the Ph.D. Program—A student who fails to meet the requirements for regular admission may be considered for contingent admission by the Graduate Studies Committee. Contingent admission may be granted under the following conditions:

1. An international student with a TOEFL score of less than 550 PBT (or equivalent) but at least 500 PBT (173 CBT or 61 iBT) or 5.5 on the IELTS may be admitted. To achieve regular admission status, the student will be required to complete satisfactorily the appropriate English as a Second Language sequence of courses; see the MSU Graduate School Bulletin (General Requirements for Admission, English Language Requirements for International Students) for specific requirements.

2. An applicant who has not yet taken the GRE but who has a computer science baccalaureate degree from a U.S. institution may be admitted, but only on a contingency basis. To achieve regular admission status, the student will be required to take the GRE General Test in his or her first semester and obtain a satisfactory composite GRE score.

3. A student who has not completed the undergraduate prerequisites may be given contingent admission. To achieve regular admission status, the student must complete all remaining prerequisites with a grade of B or better in each course.
Program of Study
The coursework will consist of not fewer than 43 credit hours of applicable graduate courses exclusive of thesis, project, and dissertation. Graduate courses completed as part of a master’s degree or graduate courses completed prior to entry into the Ph.D. program may, when approved by the student’s Graduate Committee, be applied to the Ph.D. degree requirements. The Committee’s decision will be documented by an “Attachment Sheet for Program of Study” form. The program of study will cover remaining coursework requirements.

All undergraduate prerequisite courses listed for the master’s degree must be satisfied. A Ph.D. student’s program of study may include 6000-level prerequisite courses. At least one-half of all coursework toward the degree must be at the full graduate level (8000- or 9000-level courses). In addition, coursework toward the degree must contain the following specific elements:

1. Major Coursework—The major coursework requires a minimum of 43 credit hours consisting of the following:
   a. Two full graduate courses from the Theory of Computation area:
      - CSE 8813 Theory of Computation
      - CSE 8833 Algorithms
      - CSE 8843 Complexity of Sequential and Parallel Algorithms
      - CSE 8990 Special Topics in Computer Science on a topic designated in advance by the department as a theory course fulfilling this requirement
   b. At least four full graduate courses from one area (the area of concentration) below and at least two full graduate courses from one other area below (the supporting area):
      - Artificial Intelligence
      - Software Engineering
      - High Performance Computing
      - Graphics and Visualization
      - Computer Security
      - Courses applying directly to the student’s research and approved by the student’s Graduate Committee may be included in the research area coursework, even if they are offered from another area or by another department.
   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

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

Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>CSE 6503</td>
<td>Database Management Systems</td>
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<tr>
<td>CSE 6633</td>
<td>Artificial Intelligence</td>
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<tr>
<td>CSE 8813</td>
<td>Theory of Computation</td>
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<tr>
<td>CSE 8833</td>
<td>Algorithms</td>
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<tr>
<td>CSE 8843</td>
<td>Complexity of Sequential and Parallel Algorithms</td>
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<tr>
<td>CSE 8990</td>
<td>Special Topics in Computer Science on a topic designated in advance by the department as a theory course fulfilling this requirement</td>
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<tr>
<td>CSE 6153</td>
<td>Data Communications and Computer Networks</td>
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<tr>
<td>CSE 6163</td>
<td>Designing Parallel Algorithms</td>
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<tr>
<td>CSE 6214</td>
<td>Introduction to Software Engineering</td>
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<tr>
<td>CSE 6413</td>
<td>Principles of Computer Graphics</td>
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</table>
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. 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 following areas: artificial intelligence, software engineering, high performance computing, graphics and visualization, theory, or computer security.
- All prerequisite courses for the minor courses included in the program of study must be satisfied.

The student must be accepted by a minor professor in the Department of Computer Science and Engineering and have the approval of both the minor professor and the Graduate Coordinator in Computer Science and Engineering of the minor program of study prior to enrollment in graduate courses for the minor. The minor professor will be included in the student's Graduate Committee.

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. 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 following areas: artificial intelligence, software engineering, high performance computing, graphics and visualization, theory, or computer security.
- All prerequisite courses for the minor courses included in the program of study must be satisfied.

The student must be accepted by a minor professor in the Department of Computer Science and Engineering and have the approval of both the minor professor and the Graduate Coordinator in Computer Science and Engineering of the minor program of study prior to enrollment in graduate courses for the minor. The minor professor will be included in the student's Graduate Committee.

Academic Performance: Academic Probation

Once admitted to the graduate program in Computer Science, a student who fails to maintain a satisfactory academic record will be considered to be on academic probation. A graduate GPA will be computed for each student at the end of each semester. The student's graduate GPA is the average of all graduate courses attempted while in the CS graduate program.

- A student whose graduate GPA drops below 3.00 is automatically on academic probation.
- A student who obtains a grade below a B on a prerequisite course is automatically on academic probation.
- To be removed from probation, the student, by the completion of the next nine credit hours of progress toward the degree, must:
  - achieve a graduate GPA of 3.00 or above
  - earn a grade of B or above on any prerequisite course for which a grade lower than B was previously obtained.

With the approval of the Graduate Coordinator and the Dean of the College of Engineering, a student may retake one course per degree. This policy applies to all courses (even those not on the program of study) taken as a graduate student related to a specific program, and only to those courses taken at MSU. With the exception of those courses approved for repeated credit (e.g., internships, special topics, individual studies, thesis, dissertation, etc.), a specific course may be repeated only once. Both courses will remain on the permanent transcript, and both grades will be computed in final averages. No additional program credit hours will be generated from a repeated course.

At the beginning of each semester the Department of Computer Science and Engineering Graduate Studies Committee evaluates the records of all Computer Science graduate students currently on probation, as well as students making a grade of D, F, or U during the previous semester. The committee will consider recommending that the Dean of the College of Engineering dismiss a student enrolled in a graduate program in Computer Science if:

- The student was admitted on TOEFL contingency and fails to make satisfactory progress towards 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.
• The student receives a grade of U in an S/U graded course.

Appeals Process—A student who has been dismissed from the Computer Science graduate program has the right to appeal the dismissal.
• Within four weeks of being notified of the dismissal, a student who wishes to appeal must write a letter requesting a reconsideration of the dismissal, giving all pertinent facts and explaining any extenuating circumstances. The letter should be addressed to the Head of the Department of Computer Science and Engineering. The Head of the Department of Computer Science and Engineering will review this appeal and will render a decision within five working days. If the decision is in favor of the student, the Head of the Department of Computer Science and Engineering will recommend to the Dean of the College of Engineering that the student’s dismissal from the Computer Science graduate program be rescinded.
• If the student is dissatisfied with the decision of the Department Head, the student may appeal in writing to the Dean of the College of Engineering. See Academic Status, Appeal in this publication.
• If this appeal is unsuccessful, the student may then appeal to the Provost and Vice President for Academic Affairs.

Graduate Courses—Course prerequisites are noted in parentheses.

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 (CSE 4633/6633 or PSY 4713 or PHI 4143/6143 or AN 4623/6623 or EN 4403/6603). 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 CSE4214/6214 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
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CSE 8153</td>
<td>Advanced Data Communications (CSE 4153/6153 or equivalent). 3 hours</td>
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<tr>
<td>CSE 8163</td>
<td>Parallel and Distributing Scientific Computing (CSE 4163/6163). 3 hours</td>
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<tr>
<td>CSE 8733</td>
<td>Advanced Systems Programming (CSE 4733/6733). 3 hours</td>
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<tr>
<td>CSE 8843</td>
<td>Complexity of Sequential and Parallel Algorithms (CSE 4833/6833). 3 hours</td>
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<tr>
<td>CSE 9133</td>
<td>Topics in High Performance Computing (consent of instructor). 3 hours</td>
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<tr>
<td>CSE 8163</td>
<td>Parallel and Distributing Scientific Computing (CSE 4163/6163). 3 hours</td>
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<td>Advanced Systems Programming (CSE 4733/6733). 3 hours</td>
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<tr>
<td>CSE 8843</td>
<td>Complexity of Sequential and Parallel Algorithms (CSE 4833/6833). 3 hours</td>
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<td>Programming Languages:</td>
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<td>CSE 6713</td>
<td>Programming Languages (ECE 3724 and CSE 3813 both with a grade of C or better). 3 hours</td>
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<tr>
<td>CSE 6723</td>
<td>Compiler Construction (Credit or registration in CSE 4713/6713 ). 3 hours</td>
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<td>Database Systems:</td>
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<tr>
<td>CSE 6503</td>
<td>Database Management Systems (CSE 2383 and CSE 2813 both with a grade of C or better). 3 hours</td>
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<td>Theory of Computation:</td>
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<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). 3 hours</td>
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<tr>
<td>CSE 8813</td>
<td>Theory of Computation (CSE 3813). 3 hours</td>
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<td>Algorithms (CSE 4833/6833). 3 hours</td>
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<td>CSE 8843</td>
<td>Complexity of Sequential and Parallel Algorithms (CSE 4833/6833). 3 hours</td>
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<td>Computer Graphics and Visualization:</td>
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<tr>
<td>CSE 6413</td>
<td>Computer Graphics (MA 3113, and grade of C or better in CSE 2383). 3 hours</td>
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<tr>
<td>CSE 6453</td>
<td>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</td>
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<tr>
<td>CSE 8413</td>
<td>Visualization (CSE 4413/6413). 3 hours</td>
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<tr>
<td>CSE 8433</td>
<td>Advanced Computer Graphics (CSE 4413/6413). 3 hours</td>
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<td>Computer Security:</td>
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<tr>
<td>CSE 6243</td>
<td>Information and Computer Security (CSE 4733/6733 with a grade of C or better). 3 hours</td>
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<tr>
<td>CSE 6273</td>
<td>Introduction to Computer Forensics (Senior standing in CSE/SE/CPE/MIS/CJ). 3 hours</td>
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<tr>
<td>CSE 6383</td>
<td>Cryptography and Network Security (CSE 4153/6153). 3 hours</td>
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<tr>
<td>The following courses will not generally apply toward a major in computer science:</td>
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<tr>
<td>CSE 6613</td>
<td>Bio-computing. 3 hours</td>
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<tr>
<td>CSE 6753</td>
<td>Foundations in Computation (CSE 1213 or CSE 1223 or CSE 1273 or CSE 1284 with a grade of C or better, or permission of instructor). 3 hours</td>
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</table>

**Electrical and Computer Engineering**

Dr. Nicolas H. Younan, Department Head  
Dr. James E. Fowler, Graduate Coordinator  
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Fax: 662-325-2298  
E-mail: eegpd@ece.msstate.edu  
URL: [http://www.ece.msstate.edu](http://www.ece.msstate.edu)

Graduate study is offered in the Department of Electrical and Computer Engineering leading to the degrees of Master of Science and Doctor of Philosophy in 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 with the 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. Starting Fall 2012, these degrees are combined as electrical and computer engineering (ECE).

**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 status according to the following procedure:

- Within four weeks of being notified of the official dismissal, the student must present the request and related explanation in writing to the department head and/or graduate coordinator. The department head/Coordinator will review the appeal with the 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 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 6753 Introduction to Robotics (Grade of C or better in each of ECE 3724, MA 3113, and MA 3253), 3 hours
ECE 6763 Information and Computer Security (Grade of C or better in CSE 4733/6733) [Same as CSE 4243/6243], 3 hours
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<tr>
<td>ECE 6813</td>
<td>Communications Theory (Grade of C or better in ECE 3443). 3 hours</td>
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<tr>
<td>ECE 6843</td>
<td>Error Correcting Digital Codes (senior or graduate standing). 3 hours</td>
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<tr>
<td>ECE 6853</td>
<td>Electro-Optics (Grade of C or better in ECE 3424 and consent of instructor). 3 hours</td>
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<tr>
<td>ECE 6913</td>
<td>Feedback Control Systems I (Grade of C or better in ECE 3443). 3 hours</td>
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<tr>
<td>ECE 6923</td>
<td>Feedback Control Systems II (Grade of C or better in ECE 3443). 3 hours</td>
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<tr>
<td>ECE 6933</td>
<td>State Space Design and Instrumentation (Grade of C or better in ECE 3443). 3 hours</td>
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<tr>
<td>ECE 6990</td>
<td>Special Topics in ECE. 1-9 hours</td>
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<tr>
<td>ECE 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<tr>
<td>ECE 8023</td>
<td>Switching Theory II (ECE 8013). 3 hours</td>
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<tr>
<td>ECE 8073</td>
<td>Parallel Computing Architectures II (ECE 8063 and/or consent of instructor). 3 hours</td>
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<tr>
<td>ECE 8113</td>
<td>Linear Systems Analysis I. 3 hours</td>
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<tr>
<td>ECE 8223</td>
<td>Analog Integrated Circuit Design (ECE 3434). 3 hours</td>
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<tr>
<td>ECE 8253</td>
<td>Solid State Electronics III (ECE 4263/6263). 3 hours</td>
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<tr>
<td>ECE 8273</td>
<td>VLSI Systems I (ECE 4263/6263). 3 hours</td>
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<tr>
<td>ECE 8313</td>
<td>Electromagnetic Theory (ECE 3324). 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. 1 hour</td>
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<tr>
<td>ECE 8413</td>
<td>Digital Spectral Analysis (ECE 3443 or consent of instructor). 3 hours</td>
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<tr>
<td>ECE 8423</td>
<td>Adaptive Signal Processing (ECE 3443 or consent of instructor). 3 hours</td>
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<tr>
<td>ECE 8433</td>
<td>Statistical Signal Processing (MA 4533/6533 or consent of instructor). 3 hours</td>
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<tr>
<td>ECE 8443</td>
<td>Pattern Recognition (MA 4533/6533 or consent of instructor). 3 hours</td>
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<tr>
<td>ECE 8453</td>
<td>Introduction to Wavelets (ECE 3443 or consent of instructor). 3 hours</td>
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<tr>
<td>ECE 8463</td>
<td>Fundamentals of Speech Recognition (ECE 4413/6413 or consent of instructor). 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). 3 hours</td>
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<tr>
<td>ECE 8483</td>
<td>Image and Video Coding (ECE 8473 or consent of instructor). 3 hours</td>
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<tr>
<td>ECE 8493</td>
<td>Introduction to Neural Networks (ECE 4413/6413 or equivalent). 3 hours</td>
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<tr>
<td>ECE 8503</td>
<td>Spacecraft Electrical Systems (Consent of instructor). 3 hours</td>
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<tr>
<td>ECE 8523</td>
<td>Wafer Scale Integration (Graduate standing and consent of instructor). 3 hours</td>
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<tr>
<td>ECE 8613</td>
<td>Advanced Power Systems Analysis (ECE 4613/6613 or equivalent). 3 hours</td>
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<tr>
<td>ECE 8643</td>
<td>Power System Planning (Consent of instructor). 3 hours</td>
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<tr>
<td>ECE 8653</td>
<td>Advanced Energy Conversion (ECE 3414). 3 hours</td>
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<td>ECE 8663</td>
<td>High Voltage Engineering (ECE 3313). 3 hours</td>
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<tr>
<td>ECE 8673</td>
<td>Computer Methods in Power System Analysis (ECE 4613/6613 or equivalent). 3 hours</td>
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<tr>
<td>ECE 8693</td>
<td>Power Systems Seminar (Consent of instructor). 3 hours</td>
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<td>ECE 8713</td>
<td>Switching Theory I (ECE 3434, ECE 4713/6713 or consent of instructor). 3 hours</td>
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<tr>
<td>ECE 8723</td>
<td>Introduction to Computer Arithmetic (ECE 4263/6263). 3 hours</td>
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<td>ECE 8733</td>
<td>Parallel Computing Architectures I (ECE 4713/6713/ CS 4113/6113). 3 hours</td>
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<tr>
<td>ECE 8743</td>
<td>Advanced Robotics (Grade of C or better in ECE 4753/6753). 3 hours</td>
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<tr>
<td>ECE 8803</td>
<td>Random Signals and Systems (IE 4613 or MA 4523 or equivalent). 3 hours</td>
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<tr>
<td>ECE 8813</td>
<td>Information Theory (ECE 8803 or permission of instructor). 3 hours</td>
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<tr>
<td>ECE 8913</td>
<td>Advanced Feedback Control Systems (ECE 4613/6613). 3 hours</td>
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<tr>
<td>ECE 8923</td>
<td>Non-Linear Control Systems (ECE 4913/6913). 3 hours</td>
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<tr>
<td>ECE 8933</td>
<td>Random Processes in Automatic Control (ECE 4913/6913). 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). 3 hours</td>
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<tr>
<td>ECE 8953</td>
<td>Sampled-Data Control Systems (ECE 4913/6913). 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). 3 hours</td>
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<tr>
<td>ECE 8990</td>
<td>Special Topics in ECE. 1-9 hours</td>
<td></td>
</tr>
<tr>
<td>ECE 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>
</tbody>
</table>
**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. Lori Bruce, Associate Dean for Research and Graduate Studies and  
Graduate Coordinator, M ENG  
Ms. Rita A. Burrell, Manager for Graduate and Distance Education  
250 McCain  
Box 9544  
Mississippi State, MS 39762  
Telephone: 662-325-5923  
Fax: 662-325-8573  
E-mail: rcburrell@bagley.msstate.edu  

Graduate study is offered through the Office of the Dean, James Worth Bagley College of Engineering, leading to the degree of Master of Engineering (MEng) The M Eng, designed primarily for the professional engineer, is a non-thesis, interdisciplinary program which is delivered via distance learning and combines graduate-level courses from different engineering programs into an advanced-level educational experience. All courses are delivered in a flexible, web-based format. This program is restricted to off-campus students only.

The M Eng upholds the same rigorous academic requirements as all engineering programs offered on the MSU campus and is a unique program in the state of Mississippi. Students enrolled in courses in this program may use credit hours to satisfy continuing education hours for the Mississippi Engineering Board of Registration. Licensed professional engineers from other states also may use these courses to satisfy licensing requirements.

All students admitted to the M Eng should become familiar with all academic requirements and processes associated with graduate studies in the Bagley College of Engineering and Mississippi State University as noted in the MSU Bulletin of the Graduate School in the General Requirements of the Graduate School and General Master’s Degree Requirements sections. The Bulletin is available at [http://www.grad.msstate.edu/pdf/bulletin.pdf](http://www.grad.msstate.edu/pdf/bulletin.pdf). For specific information about the program, contact Rita Burrell, Manager for Graduate and Distance Education, James Worth Bagley College of Engineering.

**Admission Criteria**

In addition to meeting the requirements set forth by the Graduate School as noted in the admission section of this publication, the basic requirements for admission to the M Eng include a 3.00/4.00 GPA on a B.S. degree in an engineering discipline area or remedial engineering coursework. Students should refer to the General Requirements for Admission section in the Graduate School Bulletin regarding University admission policy. A satisfactory performance is required on the GRE for students with a degree from a program that is not EAC/ABET-accredited. Consideration may be given to students who hold non-engineering undergraduate degrees on a case-by-case basis. Admission decisions are made by the Associate Dean for Research and Graduate Studies.

As part of the standard engineering undergraduate program, a student will have had mathematics through ordinary differential equations, one year of calculus-based physics, a general chemistry class, a class in electric circuits, and several courses in engineering mechanics. The commonality in fundamental coursework in ABET-accredited...
Academic Performance
To be in good academic standing, a student is expected to maintain a cumulative graduate GPA of 3.00 after admission to the program. If a graduate student’s cumulative GPA falls below 3.00, the student will be placed on academic probation. The student must raise the cumulative GPA to 3.00 on the next 9 hours of approved coursework in order to return to satisfactory academic performance.

A student will be dismissed from the M Eng if:
- In any subsequent semester the student’s cumulative GPA again falls below 3.00.
- A student makes a grade of D, F, or more than two Cs.

In the case of academic dismissal, the student may appeal his/her academic status according to Appeal of Academic Status as outlined in the MSU Bulletin of the Graduate School.

Completion Requirements
A student pursuing the M Eng is required to pass a written comprehensive examination related to all graduate courses taken toward the degree. In order to take the examination, the student must be enrolled at MSU during the semester in which the examination is administered, must have a cumulative 3.00 GPA in all courses taken after admission to the program, and must be in the terminal semester of coursework or within 6 hours of completing coursework.

A student completing the degree must apply to take the comprehensive examination through the office of the Manager for Graduate and Distance Education, James Worth Bagley College of Engineering. The examination will be administered by the Associate Dean for Research and Graduate Studies. The examination will be open-book and open-notes and will be administered using testing tools available in WebCT. Each student is required to secure a proctor to monitor his/her comprehensive examination; the proctor must be approved by the associate dean at least two weeks prior to the examination. The student’s graduate committee will grade the examination with either a Pass or Fail as the final assessment. A student who fails the examination cannot apply to retake it until four months from the date of the original test. Two failures will result in the student’s being dropped from the M Eng program.

Graduate Courses—Any graduate courses offered through the Bagley College of Engineering via distance may be applied toward the M Eng. With the permission of the Associate Dean for Research and Graduate Studies, a student may take up to 6 hours of coursework outside the engineering discipline (normally mathematics, science, business).
**Student Support Services**
A student enrolled in the M Eng can access the MSU University Library System via the web to utilize resources for class assignments. Using his/her MSU ID number, a student can access Library databases online and order articles electronically. A link on the M Eng Website directs the student to the services provided by the Library: Library Instruction; Research Services; Borrow/Order Materials; Workshops; Instructional Media Center, etc. The student may contact Library personnel by e-mail or telephone; all contact information is provided on the Library Website. A page on this Website is dedicated to Distance Education; information includes Requesting Help; Getting Connected; Getting Library Materials; and Doing Research.

**Engineering Mechanics**
**Dr. Lori Bruce, Associate Dean for Research and Graduate Studies**
330 Walker Engineering Building  
Box A  
Mississippi State, MS 39762  
Telephone: 662-325-3623  
E-mail: grad-coord@ae.msstate.edu

Faculty in Aerospace Engineering, Civil and Environmental Engineering, and Mechanical Engineering offer courses in Engineering Mechanics, one of the basic engineering sciences. The Aerospace Engineering Department manages these offerings. The following courses form a basis for graduate degrees offered in the James Worth Bagley College of Engineering.

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

- **EM 6123** Advanced Vibrations (EM 3413). 3 hours
- **EM 6990** Advanced Vibrations (EM 3413). 3 hours

**General Engineering**
**Dr. Lori Bruce, Associate Dean for Research and Graduate Studies**
250 McCain Engineering Building  
662-325-2270  
E-mail: rburrell@bagley.msstate.edu

The following courses are provided for proper scheduling of dissertation research/dissertation required in the program of Doctor of Philosophy in engineering (with composite major) candidates. Ph.D. programs in the College of Engineering do not require a foreign language or a special research skill.

- **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; Six Sigma; and Software Engineering. Certificates are available to traditional and non-traditional students who meet all admission requirements; students must be admitted to Mississippi State University in order to pursue certificates. Prerequisite courses are required in order to qualify for the certificate programs (normally satisfied at the undergraduate level). Some engineering certificate programs may be available to non-engineering graduate students. Please refer to the specific certificate of interest for prerequisite requirements and certificates available to non-engineering graduate students.

All certificates require that a student take a minimum of 15 hours of academic credit (five courses) in an approved certificate area and may be earned by completing selected courses from a list of qualifying courses designated by a representative faculty member or committee. Hours earned in acquiring a certificate may be counted toward completion of an advanced engineering degree. A graduate student must achieve a minimum cumulative GPA of 3.00 on courses taken to acquire a certificate. Upon satisfactory completion of the required coursework, the student will become a candidate for certification. The MSU transcript will indicate successful
completion of the certificate program. Contact information is provided below for each certificate program.

**Automotive Engineering**
The Automotive Engineering Certificate enhances the education of a student in topical subject matter related specifically to automotive engineering. This certificate was developed in support of the automotive manufacturing companies in the State of Mississippi to provide students an opportunity to focus on engineering knowledge and issues related to the design of vehicle systems and their production. The program is multi-disciplinary, allowing students from all areas of engineering to participate. Coursework will be selected from Aerospace Engineering, Chemical Engineering, Civil and Environmental Engineering, Electrical and Computer Engineering, Computer Science Engineering, Engineering Mechanics, Industrial and Systems Engineering, and Mechanical Engineering. All students are required to participate in a vehicle design/construction experience which must be approved by the director of the Automotive Engineering Certificate and will be designated as a 3-hour Directed Individual Study (4000 for undergraduate students/7000 for graduate students) course. Membership in the student section (or appropriate level) of the Society of Automotive Engineers is strongly encouraged. An Automotive Engineering Committee comprised of faculty members from various engineering departments who have an interest in the automotive industry will administer the certificate in conjunction with the Office of the Dean of Engineering. For additional information, contact Dr. 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 resulted 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 Mr. Larry Dalton at 662-325-0570 or dalton@ise.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 Mr. Larry Dalton at 662-325-0570 or Dalton@ise.msstate.edu.

Software Engineering
The Software Engineering Certificate focuses on the application of science and mathematics in a disciplined process in order to address the problem of making computers useful via software. The program offers a formalized program of study focused on the software engineering skills necessary to succeed in the dynamic field of software development.

Laboratories facilities within the Center for Computer Security Research are equipped to allow students to explore cyber crime and research methods to develop information assurance software security programs that are difficult to filtrate. The certificate targets those professionals with an interest in learning about software engineering but without the intent to pursue a graduate degree in the field. The program is also available to students in other disciplines. Additional information may be accessed at http://www.cse.msstate.edu/academics/gradstud/certificate.php or contact Dr. David Dampier at 662-325-8923 or dampier@cse.msstate.edu.

Industrial and Systems Engineering
Dr. John M. Usher, Department Head and Graduate Coordinator
260 McCain Building
Box 9542
Mississippi State, MS 39762
Telephone: 662-325-3865
E-mail: grad@ise.msstate.edu

Graduate study is offered in the Department of Industrial and Systems Engineering leading to a Master of Science degree in Industrial Engineering or a Ph.D. in Industrial and Systems Engineering. Both the M.S. and Ph.D. are available via the BCoE Distance Learning online program. Major areas of study are: ergonomics/human factors, industrial systems, and management systems engineering. Research and teaching assistantships are available on a competitive basis.

Admission Criteria
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 status according to the following procedure:
• Within four weeks of being notified of the official dismissal, the student must present the request and related explanation in writing to the graduate coordinator. The graduate coordinator will review the appeal with the appropriate departmental committee and render a recommendation.
• If the appeal at the departmental level is unsuccessful, a student may then appeal to the Associate Dean for Research and Graduate Studies in the college.
• If the appeal at the college level is unsuccessful, the student may then appeal to the Office of the Provost.

Graduate Courses—Course prerequisites are noted in parentheses.
IE 6113 Human Factors Engineering. 3 hours
IE 6123 Psychology of Human-Computer Interaction (PSY 3713 or CS 4663/6663 or IE 4113/6113 or consent of instructor). 3 hours
IE 6173 Occupational Safety Engineering. 3 hours
IE 6193 Automotive Engineering. 3 hours
IE 6333 Production Control Systems I (IE 4613/6613). 3 hours
IE 6353 Materials Handling. 3 hours
IE 6373 Automation. 3 hours
IE 6513 Engineering Administration (Junior or graduate standing). 3 hours
IE 6533 Project Management (IE 4613/6613). 3 hours
IE 6543 Logistics Engineering, (IE 4613 and senior or graduate standing). Corequisite IE 4733 or MA 4733). 3 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>IE 6553</td>
<td>Engineering Law &amp; Ethics</td>
<td>3</td>
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<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>
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<tr>
<td>IE 6623</td>
<td>Engineering Statistics II (grade of C or better in IE 4613/6613)</td>
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<tr>
<td>IE 6635</td>
<td>Industrial Quality Control I (IE 4613/6613)</td>
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<tr>
<td>IE 6673</td>
<td>Reliability Engineering (IE 4613/6613)</td>
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<tr>
<td>IE 6713</td>
<td>Operations Research I (IE 4613/6613)</td>
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<tr>
<td>IE 6733</td>
<td>Linear Programming I (CSE 1213 and MA 3113)</td>
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<tr>
<td>IE 6743</td>
<td>Engineering Design Optimization</td>
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<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>
<td>3</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>
<td>3</td>
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<tr>
<td>IE 6923</td>
<td>Six Sigma Methods and Project</td>
<td>3</td>
</tr>
<tr>
<td>IE 6934</td>
<td>Information Systems for Industrial Engineering</td>
<td>4</td>
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<tr>
<td>IE 6990</td>
<td>Special Topics in Industrial Engineering</td>
<td>1-9</td>
</tr>
<tr>
<td>IE 7000</td>
<td>Directed Individual Study</td>
<td>1-6</td>
</tr>
<tr>
<td>IE 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>IE 8143</td>
<td>Applied Ergonomics Methods</td>
<td>3</td>
</tr>
<tr>
<td>IE 8153</td>
<td>Cognitive Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IE 8163</td>
<td>Macroergonomics</td>
<td>3</td>
</tr>
<tr>
<td>IE 8333</td>
<td>Production Control Systems II</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</td>
<td>3</td>
</tr>
<tr>
<td>IE 8733</td>
<td>Decision Theory</td>
<td>3</td>
</tr>
<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</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>
<tr>
<td>IE 8990</td>
<td>Special Topics in Industrial Engineering</td>
<td>1-9</td>
</tr>
<tr>
<td>IE 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>

**Mechanical Engineering**

**Dr. Steve Daniewicz, Department Head**

**Dr. Kalyan Srinivasan, Graduate Coordinator**

210 Carpenter Engineering Building

Box ME

Mississippi State, MS 39762

Telephone: 662-325-3260

Fax: 662-325-7223

E-mail: graduate@me.msstate.edu

Website: [http://www.me.msstate.edu](http://www.me.msstate.edu)

The Mechanical Engineering program offers graduate study leading to the degrees of Master of Science and Doctor of Philosophy. The major areas of study are fluid mechanics, solid mechanics, thermal sciences, materials and manufacturing, mechanical design, and system dynamics. Specific programs of graduate study are established by consultation between students and their advisors. Graduate assistantships and fellowships are available in the department. For further information contact Graduate Coordinator, Mechanical Engineering Department, PO Drawer ME, Mississippi State University, MS 39762.

**Admission Criteria**

A minimum GPA of 2.75 is required for admission. An entering graduate student with a bachelor's degree from a program that is not accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET) must submit GRE general-test scores. An international student must have a minimum TOEFL score of 550 PBT (213 CBT or 79 iBT) or IELTS score of 6.5.

**Provisional Admission**—A provisional student must receive a 3.00 GPA on the first 9 hours of graduate level courses on his or her program of study taken at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement) in order to achieve regular status. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

**Program of Study/Completion Requirements**

Both thesis and non-thesis M.S. options are available. For the thesis option, 24 hours of coursework, with at least one-half at the 8000 level or above, are required along with 6 hours credit for the thesis and a final oral
exam. For the non-thesis option, 33 hours are required along with an oral presentation and final exam; at least 15 hours must be at the 8000 level or above.

For the Ph.D., 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.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<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 313 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>
</tr>
<tr>
<td>ME 6373</td>
<td>Air Conditioning (ME 3523 and ME 3313)</td>
<td>3 hours</td>
</tr>
<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>
<td>3 hours</td>
</tr>
<tr>
<td>ME 6443</td>
<td>Mechanical Systems Design (ME 3423 and ME 4403)</td>
<td>3 hours</td>
</tr>
<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>
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</tr>
<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>
<td>3 hours</td>
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<tr>
<td>ME 6543</td>
<td>Combustion Engines (ME 3523 and ME 3313)</td>
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<tr>
<td>ME 6623</td>
<td>Control Systems (ME 3313)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 6624</td>
<td>Experimental Methods in Materials Research (CHE 3413 or ABE 3813 or ME 3403 or permission of instructors)</td>
<td>4 hours</td>
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<tr>
<td>ME 6643</td>
<td>Automation of Mechanical Systems (ME 3613 and ECE 3283)</td>
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</tr>
<tr>
<td>ME 6743</td>
<td>Labview (ME 3701 or equivalent Labview experience)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 6823</td>
<td>Compressible Flow and Turbomachinery (EM 3313 and ME 3523)</td>
<td>3 hours</td>
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<tr>
<td>ME 6833</td>
<td>Intermediate Fluid Mechanics (EM 3313)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ME 6990</td>
<td>Special Topics in Mechanical Engineering</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>ME 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
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<td>ME 8000</td>
<td>Thesis Research/Thesis</td>
<td>Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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<tr>
<td>ME 8011</td>
<td>Graduate Seminar</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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<tr>
<td>ME 8243</td>
<td>Finite Elements in Mechanical Engineering (ME 4403 and EM 3213)</td>
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<tr>
<td>ME 8253</td>
<td>Fatigue in Engineering Design</td>
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<tr>
<td>ME 8313</td>
<td>Conductive Heat Transfer</td>
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<td>ME 8323</td>
<td>Radiation Heat Transfer</td>
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<td>ME 8333</td>
<td>Convective Heat Transfer</td>
<td>3</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</td>
</tr>
<tr>
<td>ME 8353</td>
<td>Advanced Energy Conversion (Consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>ME 8363</td>
<td>Computational Heat Transfer (Consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>ME 8403</td>
<td>Principles of Computer-Aided Design and Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>ME 8513</td>
<td>Classical Thermodynamics</td>
<td>3</td>
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<tr>
<td>ME 8613</td>
<td>Dynamical Systems</td>
<td>3</td>
</tr>
<tr>
<td>ME 8713</td>
<td>Mechanics and Control of Manufacturing System</td>
<td>3</td>
</tr>
<tr>
<td>ME 8733</td>
<td>Experimental Procedures</td>
<td>3</td>
</tr>
<tr>
<td>ME 8743</td>
<td>Stress Analysis (EM 3213)</td>
<td>3</td>
</tr>
<tr>
<td>ME 8813</td>
<td>Viscous Flow I</td>
<td>3</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</td>
</tr>
<tr>
<td>ME 8990</td>
<td>Special Topics in Mechanical Engineering</td>
<td>1-9</td>
</tr>
<tr>
<td>ME 9000</td>
<td>Dissertation Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
<td></td>
</tr>
</tbody>
</table>
COLLEGE OF FOREST RESOURCES

Dr. George M. Hopper, Dean/Director
Dr. Richard M. Kaminski, 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
rkmanski@cfr.msstate.edu

<table>
<thead>
<tr>
<th>Degree Programs</th>
<th>(T=thesis; NT=non-thesis)</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1=Starkville, 2=Meridian, 5=Distance]</td>
<td></td>
</tr>
</tbody>
</table>

### Department of Forest Products

**Master of Science**
Major: Forest Products (T; NT) [1]

**Doctor of Philosophy**
Major: Forest Resources
Concentration: Forest Products [1]

### Department of Forestry

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

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

### Department of Wildlife, Fisheries & Aquaculture

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

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

The College of Forest Resources (CFR) is the only college of its kind in the state providing learning and research opportunities in forestry, forest products, 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 Shmulsly, Department Head**
**Dr. Tor Schultz, Graduate Coordinator**

201 Locksley Way
Box 9820
Mississippi State, MS 39762-9820
Telephone: 662-325-2116
E-mail: tshultz@cfr.msstate.edu

The Forest Products field is concerned with extending our knowledge of wood as a material and applying this knowledge to the manufacture of useful products. It requires knowledge of the chemical, physical, botanical, and engineering sciences and how they impinge on wood.

Graduate study in the Department of Forest Products leads to the Master of Science, thesis option, and Master of Science, non-thesis option, in Forest Products or Doctor of Philosophy in Forest Resources with a concentration in Forest Products. The M.S. thesis-option program requires 24 hours of coursework, 6 hours of thesis research/thesis, and a comprehensive examination. The M.S. non-thesis option program requires 27 hours of coursework, 3 hours of independent study, and a comprehensive examination. The Ph.D. program may entail approximately 60 hours of course and research work, a written preliminary examination, an oral examination, and a dissertation. Major areas of study include composite wood products, environmental biotechnology, wood preservation, business and production systems, wood chemistry, and furniture. In lieu of the foreign language requirement, the Ph.D. candidate is required to take 6 hours of research skill courses from the departmental list. Research assistantships are available for Ph.D. students and for M.S. students in the thesis option. For additional information, write to the Departmental Graduate Coordinator, Department of Forest Products, Box 9820, Mississippi State, MS 39762-9820.
Admission
An applicant to the program is not required to have the GRE or GMAT test scores unless his/her grade point average is below 3.00. An international applicant is required to have a TOEFL score of 550 PBT (213 CBT or 79 iBT) or IELTS score of 6.5 or better in order to be considered. Interviews, certifications, etc. are not applicable.

Provisional Admission—A provisional student must receive a 3.00 GPA on the first 9 hours of graduate level courses on his or her program of study taken at Mississippi State University (courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement) in order to achieve regular status. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

Program of Study/Completion Requirements
The M.S. program requires 24 hours of coursework with at least half at the 8000 level, 6 hours of thesis research/thesis, and a thesis defense. The M.S. student is encouraged to present one professional paper to a referred journal.

The Ph.D. program requires approximately 60 hours of course and research work, a written preliminary examination, an oral examination, and a dissertation. The Ph.D. student is encouraged to submit two professional papers to referred journals. The student must meet all the necessary guidelines to complete thesis/dissertation requirements set by the department, college, and the University in order to graduate. Types of qualifying and exit examinations are required by the department (doctoral preliminary).

Academic Performance—Department of Forest Products will accept a C grade; however, the student’s overall GPA must be 3.00 or above.

Graduate Courses—Course prerequisites are noted in parentheses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>FP 6013</td>
<td>Wood Anatomy (FP 1103 or consent of instructor). 3 hours</td>
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<tr>
<td>FP 6023</td>
<td>Wood Chemistry (CH 1053 and CH 1223). 3 hours</td>
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</tr>
<tr>
<td>FP 6113</td>
<td>Adhesives and Finishes for Wood (CH 1053, FP 1103 or consent of instructor). 3 hour</td>
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<tr>
<td>FP 6123</td>
<td>Lumber Manufacturing (Consent of instructor). 3 hours</td>
<td></td>
</tr>
<tr>
<td>FP 6143</td>
<td>Composite Wood Products (FP 4113). 3 hours</td>
<td></td>
</tr>
</tbody>
</table>

Forestry
Dr. Andrew W. Ezell, Department Head and Graduate Coordinator
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Box 9681
Mississippi State, MS 39762-9681
Telephone: 662-325-2949
E-mail: aezell@cfr.msstate.edu

Graduate study is offered in the Department of Forestry leading to the degrees of Master of Science (M.S.) in Forestry (Main Campus [01] and Distance Campus [05]) and Doctor of Philosophy (Ph.D.) in Forest Resources with a concentration in Forestry.
Specialized areas of study include forest business, forest management and economics, forest genetics and biotechnology, forest hydrology and soils, silviculture, forest biometrics, spatial technologies in natural resource management, forest harvesting and operations, urban forestry, forest recreation, and wildlife and other natural resource economics. Graduate research assistantships are available to qualified students.

Admission
Admission to the M.S. program in the Department of Forestry requires:
1. a bachelor’s degree from an accredited university;
2. a grade point average (GPA) of 3.00 or higher for the last 60 hours of undergraduate study (for regular admission) or a GPA between 2.5 and 2.99 (for provisional admission);
3. a TOEFL score of 550 PBT (213 CBT or 79 iBT) or IELTS score of 6.5 or higher for regular admission of international students or a TOEFL score between 477 and 549 (or IELTS equivalent) for conditional admission; and
4. acceptance by a faculty member who will serve as the student’s major professor. In addition, Graduate Record Examination (GRE) scores may be requested of students applying for provisional admission or international students applying from non-accredited universities or colleges.

Admission to the Ph.D. program in the Department of Forestry requires:
1. a bachelor’s degree from an accredited university and an M.S. degree in a related field (or approval for exceptions to the master’s requirement);
2. a GPA of 3.10 or higher on prior graduate courses or 3.25 or higher for the last 60 hours of undergraduate study (for exceptions to the master’s requirement);
3. a TOEFL score of 550 PBT (213 CBT or 79 iBT) or IELTS score of 6.5 or higher for regular admission of international students or a TOEFL score between 477 and 549 (or IELTS equivalent) for conditional admission; and
4. acceptance by a faculty member who will serve as the student’s major professor. In addition, GRE scores may be requested of international students applying from non-accredited universities or colleges. There is no provisional admission to the doctoral program.

Provisional Admission—Provisional admission does not apply to doctoral applicants. Only master’s degree applicants who have a GPA between 2.50 and 2.99 for the last 60 semester hours of their undergraduate program may be admitted under provisional status, if accepted by a faculty member in the department. Scores on the GRE General Test may be required by that faculty member to evaluate the student’s potential to complete the program successfully.

Provisional students must receive a 3.00 or higher GPA on the first 9 hours of graduate level courses on their programs of study at MSU to achieve regular status. Courses with a grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 is not attained, the provisional student will be dismissed from the graduate program. While in the provisional status, students are not eligible to hold a graduate assistantship.

Program of Study
A minimum of 30 hours of graduate study is required for the M.S. degree. All 30 hours will be in academic coursework for the non-thesis option and will include FO 8293 Master of Science Professional Paper. At least 24 hours of coursework and 6 hours of FO 8000 Research/Thesis credit 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.

The doctoral student’s graduate committee will determine the number of course hours required for the Ph.D. degree based on the student’s academic background, courses currently available at MSU, the MSU requirement of 20 hours of FO 9000 Research/Dissertation credit, and any requirement of full-time enrollment for an assistantship. Typically, a Ph.D. program may involve approximately 60 hours of 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.

For the M.S. program of study, at least 9 credit hours of graduate-level forestry courses must be taken. If a minor is chosen in another field, at least 9 hours in the minor area must be taken, and a committee member from the minor area is required (refer to individual departmental requirements for minors). For the Ph.D. program, at least 12 hours of graduate-level coursework in the area of emphasis should be included, preferably in forestry courses. If a minor is chosen, at least 12 hours in the minor area must be taken, and a committee member from the minor area is required.

In conjunction with the student, the student’s graduate committee will determine what courses are best suited for the program of study. For the M.S. thesis-option, one-half of the coursework (Research/Thesis credit hours excluded) must be at the 8000 level or above. For the non-thesis option, at least 15 hours of coursework must be at the 8000 level or above.

Completion Requirements
Completion of the M.S. program requires passing at least 30 credit hours of academic coursework for the non-thesis option or a minimum of 24 credit hours of academic coursework for the thesis option with a GPA of 3.00 or higher, writing a professional paper or thesis, passing a final comprehensive defense of the thesis or paper, completing all required changes, securing final approval of the professional paper or thesis, and formally applying for graduation before the University Academic Calendar deadline.

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>
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<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), 3 hours</td>
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<tr>
<td>FO 6213</td>
<td>Forest Biometrics (ST 2113 or equivalent or consent of instructor), 3 hours</td>
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</tr>
<tr>
<td>FO 6221</td>
<td>Practice of Silviculture Laboratory (FO 4123/6123 or WFA 4223; corequisite FO 6223), 1 hour</td>
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<tr>
<td>FO 6223</td>
<td>Practice of Silviculture (FO 4123/6123 or WFA 3133 and WFA 4223; corequisite FO 6221), 3 hours</td>
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<tr>
<td>FO 6231</td>
<td>Introduction to Wood Supply Systems (Corequisite FO 3015), 1 hour</td>
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<tr>
<td>FO 6233</td>
<td>Forest Operations and Harvesting (FO 3015 and FO 4231/6231, or consent of instructor), 3 hours</td>
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<tr>
<td>FO 6253</td>
<td>Forest Procurement (FO 4231/6231, FO 4233/6233 or consent of instructor), 3 hours</td>
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<tr>
<td>FO 6313</td>
<td>Spatial Technologies in Natural Resources Management (FO 3015 or GR 2313 or consent of instructor), 3 hours</td>
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<tr>
<td>FO 6323</td>
<td>Forest Resource Management (FO 4113/6113, FO 4213/6213, FO 4223/6223, FO 4231/6231, FO 4233/6233), (OL) 3 hours</td>
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<tr>
<td>FO 6343</td>
<td>Forest Administration and Organization, 3 hours</td>
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<td>FO 6353</td>
<td>Natural Resource Law (Consent of instructor), (OL) 3 hours</td>
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<tr>
<td>FO 6411</td>
<td>Remote Sensing Seminar (Junior standing; may be repeated for credit up to four credits), 1 hour</td>
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<tr>
<td>FO 6413</td>
<td>Natural Resources Policy, (OL) 3 hours</td>
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<td>FO 6423</td>
<td>Professional Practices (FO 4323/6323), (OL) 3 hours</td>
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<td>FO 6443</td>
<td>International Forest Resources and Trade (Consent of instructor). (OL) 3 hours</td>
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<td>FO 6451</td>
<td>Remote Sensing Applications Laboratory (A basic image/interpretation or remote sensing course; corequisite: FO 6452). 1 hour</td>
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<td>FO 6452</td>
<td>Remote Sensing Applications (A basic image/interpretation or remote sensing course or consent of instructor; corequisite: FO 6451). 2 hours</td>
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<tr>
<td>FO 6463</td>
<td>Forest Hydrology and Watershed Management (PSS 3303, FO 4223/6223, and FO 4221/6221, or consent of instructor). 3 hours</td>
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<tr>
<td>FO 6471</td>
<td>GIS for Natural Resource Management Laboratory (corequisite: FO 6472). 1 hour</td>
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<td>FO 6472</td>
<td>GIS for Natural Resource Management (corequisite: FO 6471). 2 hours</td>
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<tr>
<td>FO 6483</td>
<td>Forest Soils (PSS 3303, FO 4121/6121, FO 4123/6123 or consent of instructor). 3 hours</td>
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<tr>
<td>FO 6990</td>
<td>Special Topics in Forestry. 1 to 9 hours</td>
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<tr>
<td>FO 7000</td>
<td>Directed Individual Study. 1 to 3 hours</td>
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<td>FO 8000</td>
<td>Research/Thesis. Hours and credits to be arranged; minimum of 6 hours required for degree</td>
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<tr>
<td>FO 8111</td>
<td>Graduate Seminar (First year of study). (OL) 1 hour</td>
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<tr>
<td>FO 8143</td>
<td>Advanced Forest Economics. 3 hours</td>
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<tr>
<td>FO 8153</td>
<td>Quantitative Ecology (MA 1723 and ST 8114 or consent of instructor). 3 hours</td>
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<td>FO 8163</td>
<td>Nonmarket Forest Values (FO 4113/6113 or consent of instructor). (OL) 3 hours</td>
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<td>FO 8173</td>
<td>Advanced Spatial Technologies (introductory course in remote sensing or GIS, or consent of instructor). 3 hours</td>
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<td>FO 8211</td>
<td>Graduate Seminar (Last year of study). (OL) 1 hour</td>
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<td>FO 8213</td>
<td>Advanced Silviculture (FO 4223/6223 or consent of instructor). 3 hours</td>
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<td>FO 8233</td>
<td>Advanced Forest Inventory. 3 hours</td>
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<tr>
<td>FO 8243</td>
<td>Advanced Forest Resource Management and Planning (FO 6143), (OL) 3 hours</td>
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<tr>
<td>FO 8293</td>
<td>Professional Paper (For Master of Science non-thesis option students only). 3 hours</td>
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<tr>
<td>FO 8313</td>
<td>Spatial Statistics for Natural Resources (ST 4313/6313 and introductory GIS course, or consent of instructor). 3 hours</td>
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<tr>
<td>FO 8353</td>
<td>Ecological Modeling in Natural Resources (ST 8114 or ST 8253 or equivalent). 3 hours</td>
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<tr>
<td>FO 8961</td>
<td>Nobel Topics in Physiology/Medicine and Chemistry (Graduate standing and consent of instructor) [Same as CVM 8961 and GNS 8961]. May be repeated three times for credit. 1 hour</td>
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<tr>
<td>FO 8973</td>
<td>Scientific Writing (Graduate standing and consent of instructor) [Same as ADS 8973 and CVM 8973]. 3 hours</td>
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<tr>
<td>FO 8983</td>
<td>Advanced Biotechnology (BCH 6603, BCH 6613, BCH 6713, or consent of instructor) [Same as CVM 8983]. 3 hours</td>
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<tr>
<td>FO 8990</td>
<td>Special Topics in Forestry. 1 to 9 hours</td>
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<tr>
<td>FO 9000</td>
<td>Research/Dissertation. Hours and credits to be arranged; minimum of 20 hours required for degree</td>
<td></td>
</tr>
</tbody>
</table>

**Wildlife, Fisheries and Aquaculture**

**Dr. Bruce D. Leopold, Department Head**  
**Dr. Eric D. Dibble, Graduate Coordinator**

Thompson Hall 109  
Box 9690  
Mississippi State, MS 39762-9690  
Telephone: 662-325-3830  
E-mail: bleopold@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 thesis, a thesis defense, and a comprehensive oral examination. A Ph.D. degree is offered in Forest Resources with a concentration in Wildlife and Fisheries. The Ph.D. requires one graduate-level statistics course, variable hours of coursework (determined by the graduate committee), oral and written comprehensive preliminary examinations, a dissertation and oral defense of the dissertation. A limited number of graduate research assistantships are available. For additional information write to Department Head, Department of Wildlife, Fisheries, Fisheries, and Aquaculture, Box 9690, Mississippi State, MS 39762-9690.

**Admission Criteria**

The applicant for a master’s degree must hold a bachelor’s degree and must be sponsored by an extramurally funded research project. The applicant for the Ph.D. degree must hold a master’s degree and also is usually sponsored by an extramurally funded research project. An applicant cannot be admitted to the department until a faculty member agrees to serve as an advisor. The applicant for the master’s program must have a minimum GPA of 3.00 out of 4.00 for the last 60 semester hours of undergraduate academic work and must take the general Graduate Record Examination (GRE). An applicant for the Ph.D. program must have an M.S. degree, a GPA of 3.20 out of 4.00 on all prior graduate studies (excluding
research or thesis credits), and must have taken the general GRE. Official transcripts of undergraduate and graduate work, GRE, and TOEFL or IELTS scores (if appropriate) should be sent to the MSU Office of the Graduate School.

Provisional Admission—A student entering on a provisional basis (available only for master’s students) is required to take three graduate courses (minimum of 9 hours) in the first regular fall or spring semester and make a grade of B or higher in each of these courses. These courses will be selected by the Departmental Probation Committee and will not include special problem courses or thesis research. Failure to meet the grade requirement may result in dismissal and loss of eligibility for readmission to this department’s graduate program. Students on probation are not eligible for an assistantship but may be paid wages.

Students must maintain a cumulative 3.00 GPA on all courses after admission to the program. If a master’s student falls below a 3.00 cumulative average, he/she will be placed on probation for the next fall or spring semester. A master’s student admitted under normal circumstances (not provisional) will be allowed only one probationary semester. If a student is admitted on a provisional basis, he/she will be allowed one probationary semester beyond that point. If grades do not meet the required B or better in each course taken, the student’s program will result in immediate termination. The department has an appeal process in the event the student wishes to file an appeal. A doctoral student falling below a 3.00 cumulative average after admission to the program will be immediately dropped from the program unless the student’s committee justifies an exception which is approved by the department head.

Program of Study/Completion Requirements
Prior to submitting the formal program of study to the department head, the student’s graduate committee and major professor will be selected and officially appointed in consultation with the student. A Committee Request Form must be completed by the student with committee members’ signatures and submitted to the department head in the first semester of enrollment. Master of Science graduate committees must include at least three members of the graduate faculty, including the major professor, four if the student has a minor area of study. With permission of the dean of the College, a special appointment may be made for a faculty member not holding a graduate faculty appointment to serve on a student’s committee until the student graduates. Adjunct appointments should be sought in the rare case where continuous student committee involvement is expected due to the nature of the relationship of the candidate and/or his/her agency with the department.

If the student has a minor field outside the department, at least one member of the graduate committee must be from the minor area of study, and that member will be the student’s minor professor. A Ph.D. student’s committee will include the major professor (or co-major professors) as chairperson(s), who must be a full member(s) (Level 1) of the graduate faculty and from the major field, a minor professor (if a minor is being pursued by the student), and at least three other members, two of whom are from the student’s major field of interest. If, during the course of a student’s tenure, his/her research direction changes, it may be necessary to change the members of the graduate committee or the student’s advisor. Such changes must be submitted on a change of committee request form.

The graduate committee and the master’s student will meet during the student’s first semester of work to prepare the program of study. The graduate committee and the Ph.D. student will meet during the student’s second semester of work after he/she has taken any needed statistics courses to prepare the program of study. The student must complete this form with the help of his/her major professor and concurrence of his/her graduate committee. The program of study will be kept in the department head’s office and forwarded to the Graduate School during the student’s last semester of coursework.

Twenty-four hours of coursework are required for master’s students, at least half of which is at the 8000 level or above, along with 6 hours of Thesis Research/Thesis.

A doctoral student’s program of study is required in the Office of the Graduate School when the preliminary/comprehensive examination is scheduled. The Ph.D. student is required to have 20 hours of research/dissertation research and must meet the residency requirement of three years with one full semester (9 hours) or two semesters half-time (6 hours each) to the graduate program.

Unsatisfactory Performance—All graduate students are expected to know and comply with University, departmental, and subject-area requirements. Failure to comply satisfactorily with all requirements may seriously affect the student and, in some cases, may lead to termination of assistantships or dismissal from the graduate program in this department.

Graduate Courses—Course prerequisites are noted in parentheses.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>WFA 6133</td>
<td>Fisheries Science (ST 3123 or equivalent). 3 hours</td>
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<tr>
<td>WFA 6153</td>
<td>Principles of Wildlife Conservation and Management (Sophomore standing and WFA 3133, FO 4123, or equivalent). 3 hours</td>
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<tr>
<td>WFA 6173</td>
<td>Fish Physiology (BIO 1134 and BIO 1144 or consent of instructor). 3 hours</td>
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<tr>
<td>WFA 6183</td>
<td>Principles and Practices of Aquaculture (BIO 1134 and BIO 1144, or consent of instructor). 3 hours</td>
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<td>WFA 6213</td>
<td>Wildlife Damage Management (WFA 3133 or consent of instructor). 3 hours</td>
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<tr>
<td>WFA 6211</td>
<td>Limnology Laboratory (WFA 3133 or consent of instructor; co-requisite WFA 6222). 1 hour</td>
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<td>WFA 6222</td>
<td>Limnology (WFA 3133 or consent of instructor; co-requisite WFA 6221). 2 hours</td>
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<tr>
<td>WFA 6223</td>
<td>Wildlife Plant Identification (BIO 1134 and BIO 1144 and WFA 3133 or equivalent). 3 hours</td>
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<tr>
<td>WFA 6253</td>
<td>Application of Spatial Technologies to Wildlife and Fisheries Management (Consent of instructor). 3 hours</td>
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<tr>
<td>WFA 6263</td>
<td>Wildlife Diseases [Same as CVM 6263]. 3 hours</td>
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<tr>
<td>WFA 6273</td>
<td>Ecology and Management of Human-Wildlife Conflict (WFA 3133, or consent of instructor). 3 hours</td>
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<tr>
<td>WFA 6283</td>
<td>Human-Wildlife Conflict Techniques (WFA 3133, or consent of instructor). 3 hours</td>
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<tr>
<td>WFA 6313</td>
<td>Fisheries Management (WFA 3133 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>WFA 6323</td>
<td>Wildlife Nutrition and Physiology. 3 hours</td>
</tr>
<tr>
<td>WFA 6343</td>
<td>Pond and Stream Management (Consent of instructor). 3 hours</td>
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<td>WFA 6353</td>
<td>Fish and Wildlife Policy and Law Enforcement (Consent of instructor). 3 hours</td>
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<tr>
<td>WFA 6363</td>
<td>Wildlife and Fisheries Administration and Communication (Junior standing, or consent of instructor). 3 hours</td>
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<tr>
<td>WFA 6373</td>
<td>Principles and Practice of Conservation in Agricultural Landscapes. 3 hours</td>
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<tr>
<td>WFA 6383</td>
<td>Wetlands Ecology and Management (WFA 3133 and junior standing, or consent of instructor). 3 hours</td>
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<td>WFA 6394</td>
<td>Waterfowl Ecology and Management (WFA 3133 and junior standing, or consent of instructor). 4 hours</td>
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<tr>
<td>WFA 6463</td>
<td>Human Dimensions of Fish and Wildlife Management (Junior standing or consent of instructor). 3 hours</td>
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<tr>
<td>WFA 6473</td>
<td>Wildlife and Fisheries Practices (WFA 3133 and WFA 4153 and senior standing, or consent of instructor). 3 hours</td>
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<td>WFA 6483</td>
<td>Seminar in Tropical Biology (WFA 3133 or consent of instructor). 3 hours</td>
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<td>WFA 6484</td>
<td>Upland Avian Ecology and Management (WFA 3133 and WFA 4153 and junior standing, or consent of instructor). 4 hours</td>
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<td>WFA 6494</td>
<td>Large Mammal Ecology and Management (WFA 3133 and WFA 4153 and junior standing, or consent of instructor). 4 hours</td>
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<td>WFA 6512</td>
<td>Advanced Topics in Human-Wildlife Conflicts I (WFA 4273/6273, WFA 4283/6283, or consent of instructor). 2 hours</td>
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<td>WFA 6990</td>
<td>Special Topics in Wildlife and Fisheries. 1-9 hours</td>
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<td>WFA 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<td>WFA 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>WFA 8134</td>
<td>Research Methods in Wildlife and Fisheries Sciences (Graduate standing; ST 8114). 4 hours</td>
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<tr>
<td>WFA 8144</td>
<td>Theory of Wildlife Population Ecology (WFA 3133, ST 3133 or consent of instructor). 4 hours</td>
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<tr>
<td>WFA 8154</td>
<td>Quantitative Applications in Wildlife Population Ecology (WFA 8144, ST 8114 or consent of instructor). 4 hours</td>
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<td>WFA 8212</td>
<td>Communication Skills in Wildlife and Fisheries (Graduate student status in Department of Wildlife and Fisheries). 2 hours</td>
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<tr>
<td>WFA 8223</td>
<td>Management of Impounded River Ecosystems (WFA 4313/6313 or equivalent). 3 hours</td>
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<tr>
<td>WFA 8243</td>
<td>Conservation Biology (WFA 3133, BIO 3103 or consent of instructor). 3 hours</td>
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<tr>
<td>WFA 8273</td>
<td>Advanced Fisheries Management (WFA 4133/6133 and WFA 4313/6313 or consent of instructor). 3 hours</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). 3 hours</td>
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<td>WFA 8344</td>
<td>Wildlife Habitat Analysis and Management (BIO 4203). 4 hours</td>
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<tr>
<td>WFA 8413</td>
<td>Advanced Fishery Science (WFA 4133/6133 and ST 3123 or equivalents). 3 hours</td>
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<tr>
<td>WFA 8423</td>
<td>Applied Bayesian Statistics in Ag/Natural Resources (ST 8114 and ST 8253, or consent of instructor). 3 hours</td>
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<td>Special Topics in Wildlife and Fisheries. 1-9 hours</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>
</tr>
</tbody>
</table>
COLLEGE OF VETERINARY MEDICINE

Dr. Kent Hoblet, Dean
Dr. Mark L. Lawrence, Associate Dean for Research and Graduate Studies
Wise Center
Telephone: 662-325-3432
Fax: 662-325-1193
Mailing Address: Box 6100, Mississippi State, MS 39762-6100
E-mail: bperrigin@cvm.msstate.edu
Website: http://www.cvm.msstate.edu/

Degree Programs
(T=thesis; NT=non-thesis)
[1=Starkville, 2=Meridian, D=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, and toxicology.

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 at http://www.cvm.msstate.edu/academics/dvm_graduate_programs.html.

Environmental Toxicology
Dr. Russell Carr, Graduate Coordinator
R2000 Wise Center
Box 6100
Mississippi State, MS 39762-6100
Telephone: 662-325-1417
E-mail: bperrigin@cvm.msstate.edu

Admission Criteria
To be admitted to the Ph.D. graduate program in Environmental Toxicology, the applicant must have at least a bachelor’s degree from a fully recognized four-year institution of higher learning and preferably an M.S. in a related field of study. The scholastic record for all undergraduate, graduate, and professional school coursework will be reviewed and should exceed a minimum GPA of 3.00 for undergraduate work; GPA of 3.00 for any graduate work; GPA of 2.75 for the four years of the veterinary curriculum, if applicable. Also required are three reference letters, a minimum TOEFL score of 550 PBT (213 CBT or 79 iBT) or IELTS score of 6.5 for international students where English is not the primary language, and if a Graduate Record Examination score is available it will be considered.

Provisional Admission—In special circumstances a student who does not meet admission criteria may be admitted provisionally if approved by the Graduate Advisory Committee. A student admitted to provisional status is eligible for advancement to regular status after receiving a 3.00 GPA on the first 9 hours of regular graduate-level courses (courses with an S grade, transfer credits, or credits earned while in
Unclassified status cannot be used to satisfy this requirement). In addition, three grades below a B in graduate courses will remove the student from degree candidacy.

Program of Study/Completion Requirement
Course requirements for a Ph.D. are a minimum of 60 hours beyond a master’s or 90 hours beyond a baccalaureate degree which include 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.

Unsatisfactory Performance
If a student does not show satisfactory progress toward meeting academic, research, and/or dissertation requirements, the student’s performance will be reviewed in a meeting with his/her Graduate Committee. This committee may recommend a change in the student’s program or recommend that the student be dismissed from the degree program. For more information write to: Graduate Coordinator, Environmental Toxicology Program, College of Veterinary Medicine, Box 6100, Mississippi State, MS 39762-6100 or visit the Website at http://www.cvm.msstate.edu.

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

2Previous 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. Hart Bailey, Graduate Coordinator, Pathobiology and Population Medicine
Dr. Larry Hanson, Graduate Coordinator, Basic Sciences
Dr. Andrew Mackin, Graduate Coordinator, Clinical Sciences
Dr. Russell Carr, Graduate Coordinator, Environmental Toxicology
R 2002 Wise Center
Box 6100
Mississippi State, MS 39762-6100
Telephone: 662-325-1417
E-mail: bperrigin@cvm.msstate.edu

Admission Criteria
To be admitted to the Veterinary Medical Sciences Graduate Program the applicant must either hold a D.V.M. degree from a recognized college of veterinary medicine or have at least a bachelor’s degree from a fully recognized four-year institution of higher learning. The scholastic record for all undergraduate, graduate, and professional school coursework will be reviewed and should exceed a minimum GPA of 3.00 for undergraduate work; GPA of 3.00 for graduate work; GPA of 2.75 for the four years of the veterinary curriculum or 2.75 for the last two years of the veterinary curriculum. Also required are three reference letters, a minimum TOEFL score of 550 PBT (213 CBT or 79 iBT) or IELTS score of 6.5 for international students where English is not the primary language, and if a Graduate Record Examination (GRE) score is available it will be considered.

Provisional Admission—In special circumstances a student who does not meet admission criteria may be admitted provisionally if approved by the Graduate Advisory Committee. See Provisional Admission under Admission In this publication for provisional requirements.

Program of Study/Completion Requirements
Course requirements for the 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)

3

, 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.
Course requirements for a Ph.D. are a minimum of 60 hours beyond a master’s which include 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 and include defense of the dissertation.

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

For readmission to any graduate degree program in the College of Veterinary Medicine, the College requires that students who have not been enrolled for one regular semester submit a readmission form to the Office of the Graduate School. The graduate coordinator for the College must approve the readmission. If a student has not been enrolled at Mississippi State University for one calendar year, he or she must submit a new application and statement of purpose and be reconsidered for readmission into his or her program of graduate study.

**Academic Performance**

If a student does not show satisfactory progress toward meeting academic, research, and/or thesis requirements, his/her performance will be reviewed in a meeting with the student’s graduate committee. This committee may recommend a change in the student’s program or recommend that the student be dismissed from the degree program in the College of Veterinary Medical Science program. In addition, three grades below a B in graduate courses will remove the student from degree candidacy.

For more information write to: Graduate Coordinator, Veterinary Medical Science Program, College of Veterinary Medicine, Box 6100, Mississippi State, MS 39762-6100 or visit our Website: [http://www.cvm.msstate.edu](http://www.cvm.msstate.edu).

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.

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**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 and enrollment in a Ph.D. program). 3 hours
- **CVM 6036** Veterinary Physiology (Enrollment in the professional veterinary degree program and enrollment in a Ph.D. program). 6 hours
- **CVM 6134** Aquatic Animal Health Management (One course in microbiology and one course in physiology). 4 hours
- **CVM 6163** Veterinary Parasitology (Enrollment in the professional veterinary degree program.) 3 hours
- **CVM 6180** Emerg Prep Animal Health.
- **CVM 6223** Pharmacology I (Enrollment in the professional veterinary degree program and enrollment in a Ph.D. 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
- **CVM 8041** Advanced Clinical Radiology Seminar (Course leader approval; Can be repeated for credit). 1 hour
- **CVM 8051** Advanced Clinical Pathology Seminar (Course leader approval; Can be repeated for credit). 1 hour
- **CVM 8061** Small Animal Surgery Literature Seminar. 1 hour
- **CVM 8091** Top Production Animal Medicine (May be repeated four times for credit). 1 hour
- **CVM 8101** Case Studies Research Ethics [Same as PHI 8101]. 1 hour
- **CVM 8105** Avian Externship (Consent of instructor). 5 hours
- **CVM 8113** Advanced Diseases of Poultry. 3 hours
- **CVM 8134** Advanced Fish Diseases (CVM 6134 or permission). 4 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVM 8190</td>
<td>Aquatic Diagnostic Investigation (CVM 6134 or equivalent or consent of instructor).</td>
<td>1-6</td>
</tr>
<tr>
<td>CVM 8301</td>
<td>Advanced Topics in Comparative Immunology.</td>
<td>1</td>
</tr>
<tr>
<td>CVM 8303</td>
<td>Advanced Immunology (BIO 6413 or equivalent or consent of instructor).</td>
<td>3</td>
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<tr>
<td>CVM 8315</td>
<td>Immunological Techniques.</td>
<td>5</td>
</tr>
<tr>
<td>CVM 8323</td>
<td>Zoonotic Disease in Public Health.</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8333</td>
<td>Food Safety and Security in Public Health (enrolled in graduate school, MPH program, or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8343</td>
<td>Biosecurity and Environmental Health (enrolled in graduate school or permission of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8403</td>
<td>Principles of Pharmacology and Pharmacokinetics.</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8503</td>
<td>Epidemiology/Biostatistics.</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8513</td>
<td>Applied Veterinary Epidemiology.</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8523</td>
<td>Organ Systems Toxicology I.</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8533</td>
<td>Organ Systems Toxicology II.</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8543</td>
<td>Mechanisms Toxic Action.</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8552</td>
<td>Foreign and Emerging Animal Diseases (CVM 5133).</td>
<td>2</td>
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<tr>
<td>CVM 8614</td>
<td>Helminthology (BIO 1144 or consent of instructor).</td>
<td>4</td>
</tr>
<tr>
<td>CVM 8624</td>
<td>Protozoology (BIO 1504 or equivalent).</td>
<td>4</td>
</tr>
<tr>
<td>CVM 8701</td>
<td>Pathology Seminar.</td>
<td>1</td>
</tr>
<tr>
<td>CVM 8711</td>
<td>Histopath Descriptions (Consent of instructor).</td>
<td>1</td>
</tr>
<tr>
<td>CVM 8721</td>
<td>Gross Vet Path (CVM 5044 or consent of instructor; may be repeated for credit).</td>
<td>1</td>
</tr>
<tr>
<td>CVM 8733</td>
<td>Pathologic Basis of Diseases (Acceptance to dual degree DVM/MS program or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8743</td>
<td>Emerging Infect Disease (Acceptance to dual degree program or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8790</td>
<td>Laboratory Diagnostic Services.</td>
<td>1-9</td>
</tr>
<tr>
<td>CVM 8801</td>
<td>Seminars in Veterinary Anesthesiology (DVM or equivalent degree, or permission from instructor).</td>
<td>1</td>
</tr>
<tr>
<td>CVM 8805</td>
<td>Advanced Small Animal Clinical Neurology (Must already have registerable veterinary degree and consent of instructor).</td>
<td>5</td>
</tr>
<tr>
<td>CVM 8812</td>
<td>Equine Repro Ultrasound (Consent of instructor).</td>
<td>2</td>
</tr>
<tr>
<td>CVM 8890</td>
<td>Economic and Performance Medicine (Consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8961</td>
<td>Nobel Topics in Physiology/Medicine and Chemistry (Graduate standing and consent of instructor) [Same as GNS 8961 and FO 8961]. May be repeated three times for credit.</td>
<td>1</td>
</tr>
<tr>
<td>CVM 8973</td>
<td>Scientific Writing (Graduate standing and consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8983</td>
<td>Advanced Biotechnology (BCH 6603, BCH 6613, BCH 6713, or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8990</td>
<td>Special Topics in Veterinary Medicine.</td>
<td>1-9</td>
</tr>
<tr>
<td>CVM 8993</td>
<td>Functional Genomics (BCH 6713 and ST 6243 or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>CVM 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 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/](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 Level

Qualifications
An individual appointed to Associate Graduate Faculty must
- have a terminal degree (highest degree awarded in the discipline) in or related to the faculty member’s area of graduate responsibility
- be a full-time employee of Mississippi State University holding the rank of assistant professor or assistant research professor or assistant extension professor or assistant clinical professor and may include the qualifying designation of Visiting Faculty (as defined in AOP 13.22);
- and have a record of research and/or creative achievement as described in the Faculty Handbook (6.1.2) or the ability to conduct research.

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 Level

Participant appointments can be granted to individuals to enable them to participate either through graduate teaching or graduate committee participation. Individuals who receive participant appointments do not fall under the criteria of Level 1, Level 2, or Associate categories.

Graduate Teaching Participant Status
An individual appointed to Graduate Teaching Participant status must
- be an instructor with a terminal degree in the discipline of graduate teaching responsibility, or
- have commensurate experience in or closely related to the discipline of graduate teaching responsibility.
Commensurate expertise must be in or related to the area of graduate responsibility, such as professional certification, licensure, or record of professional practice. Applicants relying on commensurate expertise must be approved by the department head, academic dean, and approved by the Dean of the Graduate School.

An individual appointed to Graduate Teaching Participant status may
- teach a graduate course.

A Graduate Teaching Participant’s term of service is two years. The appointment is initially requested and renewed at the discretion of the department head and dean of the college and is approved by the Dean of the Graduate School.

**Graduate Committee Participant Status**
An individual appointed to Graduate Committee Participant status must
- hold a terminal degree and have research experience or commensurate expertise in the discipline of graduate research responsibility, and
- be either
  - a research associate (including postdoctoral investigators);
  - a fully retired faculty member, including emeriti appointments, from MSU or another university;
  - a member of the Graduate Faculty who departed the University in good standing (this enables a committee member or chair to continue participation as a committee member after departure. This type of appointment is at the discretion of the student’s graduate committee and the department head);
  - a faculty member at another university whose expertise contributes to the research product of the student; or
  - an individual whose expertise contributes to the research product of the student.

Commensurate expertise must be in or closely related to the area of the research discipline. Applicants relying on commensurate expertise must be approved by the department head, academic dean, and approved by the Dean of the Graduate School.

No more than two individuals who have been granted participant appointments can serve on a dissertation or doctoral committee. No more than one individual who has been granted a participant appointment can serve on a master’s non-thesis, master’s thesis, specialist non-thesis, or specialist thesis committee.

A Graduate Committee Participant term of service is three years. The appointment is renewed at the discretion of the department head and dean of the college and is approved by the Dean of the Graduate School.

**Appointment/Reappointment/Change of Level**
Forms for appointments and reappointments are available at the Office of the Graduate School website ([www.grad.msstate.edu](http://www.grad.msstate.edu)). All Graduate Faculty appointments (Level 1, Level 2, and Associate Level) and participant appointments for graduate studies must be on record with the Graduate School. The Dean of the Graduate School approves the appointments and can require review of an appointment by a committee of the Graduate Faculty of the appointing department.

**Procedures for Initial Appointment**
1. The initial appointment of individuals to the Graduate Faculty and the determination of Graduate Faculty membership level (Level 1, Level 2, and Associate) and of individuals to the participant appointment must be in accordance with the corresponding criteria and approved by the academic dean based upon recommendation from the department head and approved by the Dean of the Graduate School.
2. University administrators (individuals holding the rank of Assistant Dean or higher) seeking initial appointment to the Graduate Faculty must be held to the qualifications outlined above, but their applications go directly to the Dean of the Graduate School who makes a recommendation to the Provost. These appointments are approved by the Dean of the Graduate School.
3. Recommendations for initial appointments to the Graduate Faculty, determination of membership levels, and participant appointments may be made at any time during the calendar year. It is the responsibility of the department head, dean, and applicant to provide documentation to support an applicant’s qualifications for appointment.
4. The applicant may withdraw the request for appointment at any time.
Procedures for Reappointment or Change in Level of Membership

1. The Office of the Graduate School will request department heads to submit an updated list of current Graduate Faculty members with corresponding membership levels (Level 1, Level 2, or Associate Level) in early spring for publication in the annual Bulletin of the Graduate School. The OGS will notify academic deans of faculty members or participants whose graduate appointment status is expiring within the next fiscal year.

2. University administrators (individuals holding the rank of Assistant Dean or higher) seeking reappointment to the Graduate Faculty will be held to the qualifications outlined above, but their applications go directly to the Dean of the Graduate School who makes a recommendation to the Provost. These appointments are approved by the Dean of the Graduate School.

3. Recommendations for change in level of membership in Graduate Faculty status may be made at any time during the calendar year. It is the responsibility of the department head, dean, and applicant to provide documentation to support the applicant’s qualifications for appointment.

4. The applicant may withdraw the request for reappointment at any time.

5. The department must notify the Graduate School when an individual holding graduate faculty status (Level 1, Level 2, or Associate Level) or graduate participant status is no longer eligible for the status appointment. For example, if a faculty member resigns, retires, or is no longer holding the status that initially made the individual eligible for the appointment, the department must notify the Graduate School. This information can be submitted at any time during the calendar year.

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GRADUATE FACULTY BY COLLEGE/DEPARTMENT

Mitchell Memorial Library

Level 1

Lee, Deborah O., Ph.D., Mississippi State University, Professor/Coordinator of Library Instructional Services

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
Agricultural Economics

Level 1

Allen, Albert J., Ph.D., Mississippi State University, Professor
Barnett, Barry J., Ph.D., University of Kentucky, Professor
Coble, Keith H., Ph.D., Texas A&M University, Professor
Harri, Ardian, Ph.D., Oklahoma State University, Assistant Professor
Herndon, Cary W., Jr., Ph.D., Oklahoma State University, Professor and head, North Mississippi Research and Extension Center
Hood, Kenneth W., Ph.D., Mississippi State University, Extension Professor
Ibendahl, Gregory A., Ph.D., University of Illinois, Associate Extension Professor
Little, Randall D., Ph.D., Oklahoma State University, Professor
Petrolia, Daniel R., Ph.D., University of Minnesota, Assistant Professor
Turner, Steven C., Ph.D., Virginia Polytechnic Institute and State University, Professor and Department Head

Level 2

Barefield, D. Alan, Ph.D., Texas A&M University, Extension Professor
Coatney, Kelyn 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
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

Participations (T=Teach; C=Committee Member)

Beaulieu, Lionel J., Ph.D., Purdue University, Director, Southern Rural Development Center, C

Animal and Dairy Sciences

Level 1

Larson, Jamie, Ph.D., University of Minnesota, Assistant Professor
Martin, J. Michael, Ph.D., Mississippi State University, Assistant Professor
Memili, Erdogan, Ph.D., University of Wisconsin-Madison, Associate Professor
Parish, Jane A., Ph.D., The University of Georgia, Associate Extension/Research Professor
Rude, Brian J., Ph.D., Auburn University, Professor
Ryan, Peter L., Ph.D., University of Guelph, Professor and Graduate Coordinator
Schmidt, Ty B., Ph.D., University of Missouri, Assistant Professor
Vann, Rhonda, Ph.D., Mississippi State University, Associate Research Professor
Willard, Scott T., Ph.D., Texas A&M University, Professor; Department Head of Biochemistry, Molecular Biology, Entomology, and Plant Pathology

**Level 2**

Boland, Holly Terry, Ph.D., Virginia Polytechnic Institute and State University, Assistant Research/Extension Professor
Karisch, Brandi M., Ph.D., Texas A&M University, Assistant Extension/Research Professor
Crenshaw, Mark, Ph.D., Mississippi State University, Extension Professor and Interim Department Head
Feugang, Jean M. N., Ph.D., Catholic University of Louvain (Belgium), Assistant Research Professor
Hill, Stephanie R., Ph.D., Virginia Polytechnic Institute and State University, Assistant Professor
Jousan, Dean, Ph.D., University of Florida, Associate Extension Professor
Nicodemus, Molly C., Ph.D., Michigan State University, Associate Professor
Rivera, J. Daniel, Ph.D., New Mexico State University, Assistant Research/Extension Professor
Smith, Trent, Ph.D., Louisiana State University, Assistant Professor

**Participant (T=Teach; C=Committee Member)**
Bishop, Michael D., Ph.D., The Ohio State University, Co-owner/Operator, MB Genetics, C
Callaway, Todd R., Ph.D., Cornell University, Microbiologist, College Station, TX, C
Carroll, Jeffery A., Ph.D., Texas A&M University, Research Leader, USDA-ARS, C
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
Godfrey, Robert W., Ph.D., Texas A&M University, Research Professor, University of the Virgin Islands, C
Kaya, Abdullah, Ph.D., Selcuk University, Product Technology Specialist, Alta Genetics, Inc., C
Koubal, 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
Whitley, Niki C., Ph.D., Mississippi State University, Associate Professor, North Carolina A&T University, C

**Animal Physiology**

**Level 1**
Hopper, Richard M., D.V.M., Auburn University, Professor
Linford, Robert L., D.V.M., Colorado State University, Ph.D., University of California, Davis, Professor
Willeford, Kenneth O., Ph.D., University of California, Riverside, Professor
Wills, Robert W., D.V.M., University of Missouri; Ph.D., Iowa State University, Professor

**Level 2**
Christiansen, David, D.V.M., Mississippi State University, Assistant Clinical Professor
Hoffman, Federico G., Ph.D., Texas Tech University, Assistant Professor
Lopez, Job E., Ph.D., Washington State University, Assistant Professor
Ray, David A., Ph.D., Texas Tech University, Assistant 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**
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., University of California, Professor
Godward, Jerome, Ph.D., Mississippi State University, Associate Extension Professor
Gore, Jeffrey, Ph.D., Louisiana State University, Assistant Research Professor
Henn, R. Alan, Ph.D., University of Florida, Extension Professor
Hoffman, Federico G., Ph.D., Texas Tech University, Assistant Professor
Ingram, David M., Ph.D., Washington State University, Extension/Research Professor
Krishnan, Natraj, Ph.D., Vidyasagar University (India), Assistant Professor
Lawrence, Gary W., Ph.D., Louisiana State University, Assistant Professor
Layton, M. Blake, Jr., Ph.D., Louisiana State University, Extension Professor
Li, Jiaxu, Ph.D., Pennsylvania State University, Associate Professor
Lu, Shien, Ph.D., Washington State University, Associate Professor
Ma, Din-Pow, Ph.D., Kent State University, Professor
Ma, Peter W. K., Ph.D., Cornell University, Associate Professor
Meyer, Florencia, Ph.D., University of Nebraska, Assistant Professor
Musser, Fred R., Ph.D., Cornell University, Assistant Professor
Peng, Zhaohua, Ph.D., Ohio State University, Associate Professor
Peterson, Daniel, Ph.D., Colorado State University, Associate Professor
Ray, David A., Ph.D., Texas Tech University, Assistant Professor
Reichert, Nancy A., Ph.D., New Mexico State University, Professor and Head of Biological Sciences Department
Riggins, John J., Ph.D., University of Arkansas at Fayetteville, Assistant Professor
Sabanadzovic, Sead, Ph.D., University of Bari, Associate Professor
Schneider, John C., Ph.D., Princeton University, Professor
Sciumbato, Gabriel L., Ph.D., Louisiana State University, Research Professor
Sparks, Darrell L., Jr., Ph.D., Mississippi State University, Assistant Professor
Tomaso-Peterson, Maria, Ph.D., Mississippi State University, Assistant Research Professor
Willard, Scott T., Ph.D., Texas A&M University, Professor and Department Head
Willeford, Kenneth, Ph.D., University of California, Riverside, Professor

Level 2
Allen, Thomas Ward, Jr., Ph.D., Auburn University, Assistant Extension Professor
Memili, Erdogan, Ph.D., University of Wisconsin-Madison, Associate Professor

Associate
Armbrust, Kevin L., Ph.D., University of California at Davis, Associate Professor
Rodriguez, Jose M., Ph.D., University of Idaho, Assistant Research Professor

Participant (T=Teach; C=Committee Member)
Adamczyk, John Joseph, Jr., Ph.D., Louisiana State University, Supervisory Research Entomologist, USDA-ARS, Thad Cochran Southern Horticultural Laboratory, C
Allen, Clint, Ph.D., University of Arkansas, Research Entomologist, USDA-ARS, C
Allison, Jeremy D., Ph.D., University of California-Riverside, Assistant Professor, LSU Agricultural Center, C
Balbalian, Clarissa J., M.S., West Virginia University, Diagnostic Laboratory Manager, MSU, C
Boyle, John A., Ph.D., Duke University, Professor Emeritus, C
Bridges, Susan M., Ph.D., University of Alabama, Huntsville, Research Professor, C
Dakin, Matt Eitel, Ph.D., Auburn University, Professor (retired), University of Southwestern Louisiana, C
Jackson, Ryan E., Ph.D., North Carolina State University, Research Entomologist, USDA-ARS, C
Jeffers, Steven N., Ph.D., Cornell University, Associate Professor, Clemson University, C
Jenkins, Johnie N., Ph.D., Purdue University, Director, Crop Science Research Laboratory, USDA, C
Jones, Walker A., Ph.D., Clemson University, Supervisory Research Entomologist, USDA-ARS, C
Kouba, Andy J., Ph.D., University of Florida, Director, Research & Conservation; Head, Forest Health & Restoration Ecology; Head, Reproductive Sciences, Memphis, TN, Zoo, C
Leonard, Billy Rogers, Ph.D., Louisiana State University, Professor of Entomology and Associate Vice Chancellor, LSU AgCenter, C
Luthe, Dawn, Ph.D., University of Wisconsin, Professor, Penn State University, C
Luttrell, Randall G., Ph.D., University of Arkansas, Research Leader, USDA ARS Southern Insect Management Research Unit, C
McLaughlin, Michael R., Ph.D., University of Illinois, Research Plant Pathologist, USDA-ARS, C
Otto, Daniel, Ph.D., University of Michigan, Curator and Chair, The Academy of Natural Sciences, C
Rawlins, John E., Ph.D., Cornell University, Head, Section of Invertebrate Zoology, Carnegie Museum of Natural History, C
Smith, James L., Ph.D., University of Florida, Assistant Professor, Texas A&M University, C
Snodgrass, Gordon L., Ph.D., Mississippi State University, Research Entomologist, USDA-ARS, C
Solis, M. Alma, Ph.D., University of Maryland, College Park, Research Entomologist, USDA-ARS, C
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Ulyshen, Michael Darragh, Ph.D., University of Georgia, Entomologist, USDA Forest Service, C
Warburton, Marilyn Louise, Ph.D., University of California, Davis, Research Geneticist USDA-ARS, C, T
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Windham, Gary L., Ph.D., North Carolina State University, Adjunct Associate Professor, C
Wubben, Martin J., Ph.D., Iowa State University, Research Molecular Geneticist, USDA-ARS, C

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Food Science, Nutrition and Health Promotion

Level 1

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Chang, Sam K. C., Ph.D., University of Nebraska-Lincoln, Professor and 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 (Food Science and Technology)
Hunt, Barry P., Ed.D., University of Alabama, Professor (Health Promotion)
Mikel, W. Benjy, Ph.D., Mississippi State University, Professor (Food Science and Technology)
Nannapaneni, Ramakrishna, Ph.D., University of Strathclyde, Glasgow (UK), Assistant 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, Assistant 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)

Level 2

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Mahmoud, Barakat S. M., Ph.D., Hokkaido University (Japan), Assistant Professor
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Burney, Sandra Lynn B., Ph.D., Mississippi State University, Instructor, C, T
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Ghavimi, Bahman, Ph.D., Mississippi State University, President, Dr. G’s Creations, LLC, C
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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, Poulson, 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
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, Technical Support and Sales, John R. White Company, Inc., 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
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

Browning, Ned, Ph.D., University of Tennessee, Extension Professor
Jackson, Gary B., Ph.D., Pennsylvania State University, Associate Professor and Director, MSU Extension Service
Newman, Michael E., Ph.D., Mississippi State University, Director of Human Sciences and Professor
Oldham, Dehlia Rae, Ph.D., Colorado State University, Extension Professor
Sexton, Julie S., Ph.D., Mississippi State University, Extension Professor
Swortzel, Kirk A., Ph.D., Ohio State University, Professor and Graduate Coordinator
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Threadgill, Paula I., Ph.D., Mississippi State University, Extension Professor
White, Ronnie W., Ph.D., Mississippi State University, Extension Professor

Level 2

Downey, Laura Hall, Ph.D., University of Kentucky, Assistant Extension Professor
Giesemann, John T., Mississippi State University, Extension Professor
Long, John L., Ph.D., Mississippi State University, Assistant Extension Professor

Participant (T=Teach; C=Committee Member)

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
Jackson, Gary B., Ph.D., The Pennsylvania State University, Associate Professor
Shaffett, Bobbie D., Ph.D., Louisiana State University, Extension Professor
Taylor, Jan C., Ph.D., Texas Woman’s University, Professor
Worthy, Sheri L., Ph.D., Texas Tech University, Professor and Graduate Coordinator

Level 2

Cheek, Wanda, Ph.D., Ohio State University, Professor
Downey, Laura Hall, Ph.D., University of Kentucky, Assistant Extension Professor
Duncan, Beth, Ph.D., Mississippi State University, Extension Professor
Miller, Phyllis B., Ph.D., University of Tennessee, Professor
Peterson, Donna J., Ph.D., University of Arizona, Assistant Extension Professor
Phillips, Tommy M., Ph.D., Auburn University, Assistant Professor
Wilmuth, Joe D., Ph.D., Oklahoma State University, Associate Professor

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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
Schauwecker, Timothy J., Ph.D., Mississippi State University, Associate Professor
Seymour, Michael, M.L.A., Louisiana State University, Assistant Professor and Graduate Coordinator
Walker, Jason B., M.L.A., Virginia Polytechnic Institute and State University, Associate Professor
Wilkerson, G. Wayne, M.A., M.L.A., Louisiana State University, Associate Professor

Level 2

Dumas, Jeremiah, M.L.A., Mississippi State University, Assistant Research Professor
Fulford, Charles Taze, III, M. Arch, University of Idaho, Assistant Professor
Gallo, Warren C., M.U.D., University of Michigan, Assistant Professor

Plant and Soil Sciences

Level 1

Baldwin, Brian S., Ph.D., New Mexico State University, Professor
Bi, Guihong, Ph.D., Oregon State University, Assistant Research Professor
Buehring, Normie W., Ph.D., Oklahoma State University, Research Professor
Byrd, John D., Ph.D., North Carolina State University, Extension/Research Professor
Cox, Michael S., Ph.D., Louisiana State University, Professor
Colden, 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

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Larson, Erick, Ph.D., University of Nebraska-Lincoln, Research Professor
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Poultry Science

Level 1

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Participant (T=Teach; C=Committee Member)

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Corzo, Alejandro, Ph.D., Auburn University, Research Scientist/Poultry Development, Elanco, C

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Giesen, Andrew F., Ph.D., Auburn University, USDA/ARS Research Scientist, C

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COLLEGE OF ARCHITECTURE, ART, AND DESIGN

Art

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Campbell, Critz, M.F.D., Parnham College (UK), Associate Professor

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Lippillo, Dominic, M.F.A., Ohio University, Assistant Professor

Long, Robert J., M.F.A., Clemson University, Professor

McCourt, Tim, M.F.A., University of Southern California, Professor

Mixon, Jamie B., B.A., Mississippi State University, Professor

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School of Architecture

Level 1

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McCann, Rachel E., R.A., Ph.D., Architectural Association School of Architecture-London, Professor
Perkes, David, R.A., M.Arch., Yale University, Professor
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COLLEGE OF ARTS AND SCIENCES
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Rafferty, Janet E., Ph.D., University of Washington, Professor; Senior Research Associate, Cobb Institute of Archaeology

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Ervin, Gary N., Ph.D., University of Alabama, Graduate Coordinator and Professor
Gordon, Donna M., Ph.D., University of Pennsylvania School of Medicine, Assistant Professor
Klink, Vincent, Ph.D., The University of Maryland, Assistant Professor
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Munn, Giselle, Ph.D., University of Kansas, Associate Professor
Outlaw, Diana C., Ph.D., University of Memphis, Assistant Professor
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Thornton, Justin A., Ph.D., University of Mississippi Medical Center, Assistant Professor
Wallace, Lisa, Ph.D., Ohio State University, Associate Professor
Welch, Mathew E., Ph.D., Indiana University, Assistant Professor
Wise, Dwayne A., Ph.D., Florida State University, Professor

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French, William Todd, Ph.D., Mississippi State University, Associate Professor

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Knapp, Charles R., Ph.D., University of Florida, Director of Conservation and Research, John G. Shedd Aquarium, Chicago, C
Voelker, Gary A., Ph.D., University of Washington, Assistant Professor and Curator of Birds, Texas A&M University, C
### Chemistry

<table>
<thead>
<tr>
<th>Level 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Emerson, Joseph P.,</strong> Ph.D., University of Georgia, Assistant Professor</td>
</tr>
<tr>
<td><strong>Fitzkee, Nicholas C.,</strong> Ph.D., Johns Hopkins University, Assistant Professor</td>
</tr>
<tr>
<td><strong>Foster, Stephen C.,</strong> Ph.D., Dalhousie University, Associate Professor and Graduate Coordinator</td>
</tr>
<tr>
<td><strong>Gwaltney, Steven,</strong> Ph.D., University of Florida, Associate Professor</td>
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<tr>
<td><strong>Henry, William P.,</strong> Ph.D., University of Florida, Associate Professor</td>
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<tr>
<td><strong>Lewis, Edwin A.,</strong> Ph.D., University of Nebraska-Lincoln, Professor and Department Head</td>
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<tr>
<td><strong>Mead, Keith T.,</strong> Ph.D., Southampton University, Professor</td>
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<tr>
<td><strong>Milsna, Todd E.,</strong> Ph.D., University of Texas at Austin, Associate Professor</td>
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<tr>
<td><strong>Rabideau, Peter W.,</strong> Ph.D., Case Western Reserve University, Professor</td>
</tr>
<tr>
<td><strong>Rowland, Gerald,</strong> Ph.D., Ph.D., University of South Florida, Assistant Professor</td>
</tr>
<tr>
<td><strong>Saebo, Svein,</strong> Cand. Real. (Ph.D.), University of Tromso (Norway), Professor</td>
</tr>
<tr>
<td><strong>Sygula, Andrzej,</strong> Ph.D., Jagiellonian University, Associate Professor</td>
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<tr>
<td><strong>Wipf, David,</strong> Ph.D., Indiana University, Professor</td>
</tr>
<tr>
<td><strong>Zhang, Dongmao,</strong> Ph.D., Purdue University, Assistant Professor</td>
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<tr>
<td><strong>Level 2</strong></td>
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<tr>
<td><strong>Beard, Debbie J.,</strong> Ph.D., Mississippi State University, Assistant Research Professor</td>
</tr>
<tr>
<td><strong>Armbrust, Kevin L.,</strong> Ph.D., University of California at Davis, Director, Mississippi State Chemical Laboratory and Associate Professor</td>
</tr>
<tr>
<td><strong>Rodriguez, Jose M.,</strong> Ph.D., University of Idaho, Director, Petroleum Products, MS State Chemical Lab and Assistant Research Professor</td>
</tr>
<tr>
<td><strong>Participant (T=Teach; C=Committee Member)</strong></td>
</tr>
<tr>
<td><strong>Frisch, Jonathan R.,</strong> Ph.D., University of Minnesota, Instructor, T, C</td>
</tr>
<tr>
<td><strong>Graves, David E.,</strong> Ph.D., University of Alabama at Birmingham, Professor and Chair, University of Alabama-Birmingham, C</td>
</tr>
<tr>
<td><strong>Li, Tintu,</strong> Ph.D., Harvard University, Program Director, Division of Chemistry, National Science Foundation, C</td>
</tr>
<tr>
<td><strong>Merchant, Mark E.,</strong> Ph.D., Texas A&amp;M University, Professor, McNeese State University, C</td>
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<td><strong>Pittman, Charles U., Jr.,</strong> Ph.D., Pennsylvania State University, Professor Emeritus, C</td>
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<td><strong>Wilson, W. William,</strong> Ph.D., University of North Carolina, Professor Emeritus, C</td>
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<tr>
<td><strong>Xia, Kang,</strong> Ph.D., University of Wisconsin-Madison, Associate Professor, Virginia Tech, C</td>
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</table>

### Classical & Modern Languages and Literatures

<table>
<thead>
<tr>
<th>Level 1</th>
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<tbody>
<tr>
<td><strong>Clark, Mark E.,</strong> Ph.D., Indiana University, Associate Professor (Classics)</td>
</tr>
<tr>
<td><strong>Harland, Robert J. E.,</strong> Ph.D. University of Wales, Associate Professor (Spanish)</td>
</tr>
<tr>
<td><strong>Jordan, Jack, Ph.D.,</strong> University of Virginia, Professor and Department Head (French)</td>
</tr>
<tr>
<td><strong>Potter, Edward T.,</strong> Ph.D., University of North Carolina at Chapel Hill, Associate Professor and Graduate Coordinator (German)</td>
</tr>
<tr>
<td><strong>Wolverton, Robert E.,</strong> Ph.D., University of North Carolina, Professor (Classics)</td>
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<tr>
<td><strong>Level 2</strong></td>
</tr>
<tr>
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<tr>
<td><strong>Gray, Sally H.,</strong> Ph.D., University of North Carolina at Chapel Hill, Assistant Professor (German)</td>
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<td><strong>Moser, Keith A.,</strong> Ph.D., University of Tennessee, Assistant Professor (French)</td>
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<tr>
<td><strong>Pelaez, Sol I.,</strong> Ph.D., University at Buffalo SUNY, Assistant Professor (Spanish)</td>
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<tr>
<td><strong>Associate</strong></td>
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<tr>
<td><strong>Dunn-Whitener, Mary Jane, Ph.D.,</strong> University of Pennsylvania, Visiting Assistant Professor (Spanish)</td>
</tr>
</tbody>
</table>

### Communication

<table>
<thead>
<tr>
<th>Level 2</th>
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</thead>
<tbody>
<tr>
<td><strong>Durst, Robert W.,</strong> M.F.A., University of Alabama, Associate Professor</td>
</tr>
<tr>
<td><strong>Flick, Harry Albert, II, Ph.D.,</strong> Southern Illinois University, Professor</td>
</tr>
<tr>
<td><strong>Foley, Megan K.,</strong> Ph.D., University of Iowa, Assistant Professor</td>
</tr>
<tr>
<td><strong>Forde, John E.,</strong> Ph.D., University of Southern Mississippi, Associate Professor and Department Head</td>
</tr>
<tr>
<td><strong>Goodman, Mark, Ph.D.,</strong> University of Missouri at Columbia, Professor</td>
</tr>
<tr>
<td><strong>Nicholson, John H.,</strong> Ph.D., University of Iowa, Assistant Professor</td>
</tr>
<tr>
<td><strong>Roussin, Wendy K.,</strong> M.F.A., Indiana State University, Assistant Professor</td>
</tr>
<tr>
<td><strong>Smith, Glen D.,</strong> Ph.D., The University of Southern Mississippi, Assistant Professor</td>
</tr>
<tr>
<td><strong>Strout, Lawrence N.,</strong> Ph.D., Florida State University, Associate Professor</td>
</tr>
<tr>
<td><strong>Walton, Laura R.,</strong> Ph.D., University of Southern Mississippi, Assistant Professor</td>
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<tr>
<td><strong>Williams, Kevin D.,</strong> Ph.D., University of Georgia, Associate Professor</td>
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</tbody>
</table>

### English

<table>
<thead>
<tr>
<th>Level 1</th>
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</thead>
<tbody>
<tr>
<td><strong>Anderson, Thomas P.,</strong> Ph.D., Vanderbilt University, Associate Professor</td>
</tr>
<tr>
<td><strong>Bentley, Gregory W.,</strong> Ph.D., University of California–Davis, Associate Professor</td>
</tr>
</tbody>
</table>
Crevey, Patrick J., Ph.D., Harvard University, Professor
Dodds, Lara A., Ph.D., Brown University, Associate Professor
Hagenston, Becky, M.F.A., New Mexico State University, Associate Professor
Hanshaw, Shirley A. J., Ph.D., The University of Mississippi, Associate Professor
Johnson, Holly, Ph.D., University of North Carolina at Chapel Hill, Associate Professor
Lyons, Richard, Ph.D., University of Houston, Professor
Marsh, Kelly, Ph.D., The Pennsylvania State University, Associate Professor
Raymond, Richard, Ph.D., Miami University, Professor and Department Head
West, Robert M., Ph.D., University of North Carolina at Chapel Hill, Associate Professor

Level 2
Atkinson, Theodore B., Ph.D., Louisiana State University, Associate Professor
Cleggett, Shalyn R., Ph.D., Vanderbilt University, Associate Professor
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
Kardos, Michael P., Ph.D., University of Missouri, Assistant Professor
Kelley, James B., Ph.D., University of Tulsa, Associate Professor, Meridian Campus
Little, Matthew W., Ph.D., University of Chicago, Associate Professor
O’Donnell, Tennyson, Ph.D., Syracuse University, Assistant Professor
O’Neill, Bonnie C., Ph.D., Washington University in St. Louis, Assistant Professor
Pierce, Catherine, Ph.D., University of Missouri, Assistant Professor of English
Pitzer, Ginger B., Ph.D., University of Texas at Austin, Assistant Professor
Shaffer, Donald M., Ph.D., University of Chicago, Assistant Professor
Spain, Andrea, Ph.D., State University of New York at Buffalo, Assistant Professor

Participant (T=Teach; C=Committee Member)
Torbert, Benjamin, Ph.D., Duke University, Assistant Professor, University of Missouri, C

Geosciences
Level 1
Ambinakudige, Shrinidhi S., Ph.D., Florida State University, Assistant Professor
Brown, Michael E., Ph.D., University of North Carolina-Chapel Hill, Associate Professor and Graduate Coordinator
Choi, Jinmu, Ph.D., University of Georgia, Assistant Professor
Clary, Renee M., Ph.D., Louisiana State University, Assistant Professor
Cooke, William H., III, Ph.D., Mississippi State University, Associate Professor
Dixon, P. Grady, Ph.D., Arizona State University, Assistant Professor
Dyer, Jamie L., Ph.D., University of Georgia, Assistant Professor
Kirkland, Brenda L., Ph.D., Louisiana State University, Assistant Professor
McNeal, Karen S., Ph.D., Texas A&M University, Assistant Professor
Mytroie, John E., Ph.D., Rensselaer Polytechnic Institute, Professor
Rodgers, John C., Ph.D., University of Georgia, Associate Professor
Schmitz, Darrel W., Ph.D., Texas A&M University, Professor and Department Head
Sherman-Morris, Kathleen, Ph.D., Florida State University, Assistant Professor
Wax, Charles L., Ph.D., Louisiana State University, Professor and State Climatologist

Level 2
Fitzpatrick, Patrick J., Ph.D., Colorado State University, Associate Research Professor
Grimes, Craig B., Ph.D., University of Wyoming, Assistant Professor
Mercer, Andrew E., Ph.D., University of Oklahoma, Assistant Professor
O’Hara, Charles G., Ph.D., University of Mississippi, Associate Research Professor
270
Samson, Scott A., Ph.D., University of Nebraska-Lincoln, Extension Professor

Participant (T=Teach; C=Committee Member)
Caputo, Mario V., Ph.D., University of Cincinnati, Professor, Mt. San Antonio College (CA), C
Croft, Paul, Ph.D., Rutgers University, Assistant Professor, University of South Alabama, C
Goodrich, Gregory B., Ph.D., Arizona State University, Assistant Professor, Western Kentucky University, C
Lee, Zhongping, Ph.D., University of South Florida, Research Professor, University of Massachusetts-Boston, C
May, James H., Ph.D., Texas A&M University, Lecturer, T
Miller, Dalton W., Jr., M.A., University of Mississippi, Instructor, T
Mishra, Deepak R., Ph.D., University of Nebraska, Assistant Professor, Department of Geography, University of Georgia, C
Mostovoi, Gueorgui V., Ph.D., Moscow State University, Meteorologist, Stennis Space Center, C
Palmer, Arthur N., Ph.D., Indiana University, Professor Emeritus, SUNY, Oneonta, NY, Adjunct Professor, Western Kentucky University, C
History

Level 1

Barbier, M. Kathryn, Ph.D., University of Southern Mississippi, Associate Professor
Brain, Stephen C., Ph.D., University of California, Berkeley, Assistant Professor
Damms, Richard V., Ph.D., The Ohio State University, Associate Professor
Giesen, James C., Ph.D., University of Georgia, Assistant Professor
Greene, Alison Collins, Ph.D., Yale University, Assistant Professor
Hay, William Anthony, Ph.D., University of Virginia, Associate Professor
Hershey, Mark D., Ph.D., University of Kansas, Assistant Professor
Hui, Alexandra E., Ph.D., University of California at Los Angeles, Assistant Professor
Lavine, Matthew B., Ph.D., University of Wisconsin-Madison, Assistant Professor
Marcus, Alan I., Ph.D., University of Cincinnati, Professor and Department Head
Marshall, Anne E., Ph.D., University of Georgia, Assistant Professor
Martucci, Jessica, Ph.D., University of Pennsylvania, Assistant Professor
Messer, Peter C., Ph.D., Rutgers University, Associate Professor and Graduate Coordinator
Middleton, Stephen, Ph.D., Miami University, Professor and Director of African American Studies
Mitchell, Dennis, Ph.D., University of Mississippi, Professor and Interim Dean, MSU-Meridian
Osman, Julia, Ph.D., University of North Carolina, Chapel Hill, Assistant Professor
Phillips, Jason K., Ph.D., Rice University, Associate Professor
Ridner, Judith A., Ph.D., College of William and Mary, Associate Professor
Snyder, Christopher A., Ph.D., Emory University, Professor of History and Dean of the Honors College
Uzoigwe, Godfrey N., D.Phil., Oxford University, England, Professor

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)
Johnston, Corlis P., Ph.D., Emory University, Associate Professor (Mathematics); Associate Department Head; Graduate Coordinator
Kim, Seongjai, Ph.D., Purdue University, Associate Professor (Mathematics)
Lim, Hyeona, Ph.D., Michigan State University, Associate Professor (Mathematics)
Lu, QiQi, Ph.D., The University of Georgia, Associate Professor (Statistics)
Miller, T. Len, Ph.D., Virginia Polytechnic Institute and State University, Professor (Mathematics)
Miller, Vivien G., Ph.D., Mississippi State University, Professor (Mathematics)
Neumann, Michael M., Ph.D., University of Saarbrucken (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
Xu, Xiangsheng, Ph.D., University of Texas at Austin, Professor (Mathematics)
Zhang, Haimeng, Ph.D., University of Southern California, Associate Professor (Statistics)

Level 2

DuBien, Janice, Ph.D., Oklahoma State University, Associate Professor (Statistics)
Fabel, Paul, Ph.D., University of Texas at Austin, Associate Professor (Mathematics)
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)
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

Philosophy and Religion

Level 1

Bickle, John, Ph.D., University of California, Irvine, Professor and Department Head
Edelmann, Jonathan B., Ph.D., University of Oxford, Assistant Professor

Level 2

Clifford, Michael R., Ph.D., Vanderbilt University, Professor
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Gallardo Estrella, Roberto, Ph.D., Mississippi State University, Assistant Extension Professor
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Moffatt, Barton, Ph.D., University of Minnesota, Assistant Professor
Phillips, Trisha B., Ph.D., Rice University, Assistant Professor
Thompson, James Robert, Ph.D., Washington University, Assistant Professor
Witt, Joseph D., Ph.D., University of Florida, Assistant Professor

Physics and Astronomy

Level 1

Afanasjevs, Anatolij, 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., University of Illinois, Associate Professor
Dunne, James A., Ph.D., The American University, Professor

Dutta, Dipangkar, 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
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Novotny, Mark A., Ph.D., Stanford University, Professor and Department Head
Pierce, Donna M., Ph.D., University of Maryland, Assistant Professor
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Tanner, Angele M., Ph.D., UCLA, Assistant Professor
Waggoner, Charles A., Ph.D., Mississippi State University, Research Professor
Wang, Chujj, 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

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, Associate Professor
French, P. Edward, Ph.D., Mississippi State University, Associate Professor
McThomas, Mary, Ph.D., University of California, Los Angeles, Assistant Professor
Morrison, Minion K. C., Ph.D., University of Wisconsin-Madison, Professor and Department Head, Senior Fellow in African American Studies
Radin, Dagmar, Ph.D., University of North Texas, Assistant Professor
Shaffer, Stephen D., Ph.D., Ohio State University, Professor
Shoup, Brian D., Ph.D., Indiana University, Assistant Professor
Stanishevski, Dragan, Ph.D., Florida Atlantic University, Assistant Professor
Travis, Rickey, Ph.D., University of Georgia, Associate Professor

**Level 2**

Mellen, Robbin B., Jr., Ph.D., Washington State University, Assistant Professor

Wiseman, William M., Ph.D., Mississippi State University, Professor and Director, John C. Stennis Institute of Government

**Participant (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

Orgeron, Craig P., Ph.D., Mississippi State University, Director of Strategic Services Div, MS Department of Information Technology Services, C, T

Miller, Chad R., Ph.D., Virginia Polytechnic & State University, Assistant Professor, University of Southern Mississippi, C

**Psychology**

**Level 1**

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McKinney, Cliff, Ph.D., University of Central Florida, Assistant Professor

McMillen, Robert, Ph.D., University of Georgia, Associate Professor

Moss, Jarrod, Ph.D., Carnegie Mellon University, Assistant Professor

Sinclair, H. Colleen, Ph.D., University of Minnesota, Assistant Professor

Swan, J. Edward, II, Ph.D., The Ohio State University, Associate Professor

Williams, Carrick C., Ph.D., Michigan State University, Associate Professor

**Level 2**

Garrison, Teena M., Ph.D., Mississippi State University, Assistant Research Professor

Klein, Stephen B., Ph.D., Rutgers University, Professor

McMillen, David L., Ph.D., University of Texas, Professor

**Sociology**

**Level 1**

Barranco, Raymond Edward, Ph.D., Louisiana State University, Assistant Professor

Boyd, Robert L., Ph.D., University of North Carolina-Chapel Hill, Associate Professor

Brauner-Otto, Sarah R., Ph.D., University of Michigan, Assistant Professor

Cosby, Arthur G., Ph.D., Mississippi State University, Giles Distinguished Professor; Director, Social Science Research Center (SSRC)

Cossman, Lynne, Ph.D., Florida State University, Professor and Department Head

Dunaway, R. Gregory, Ph.D., University of Cincinnati, Professor; Associate Dean of College of Arts and Sciences

Haynes, Stacy H., Ph.D., Pennsylvania State University, Assistant Professor

Hughes, Matthew W., Ph.D., University of Virginia, 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, Assistant Professor

Paris, Domenico, Ph.D., Pennsylvania State University, Professor

Rader, Nicole E., Ph.D., Southern Illinois University, Assistant Professor and Graduate Coordinator

Ray, Melvin C., Ph.D., Iowa State University, Associate Vice President for Research and Associate Professor

Schewe, Rebecca L., Ph.D., University of Wisconsin-Madison, Assistant Professor

**Level 2**

Argeros, Grigoris, Ph.D., Fordham University, Assistant Professor

Chi, Guanqiq, Ph.D., University of Wisconsin-Madison, Assistant Professor

Cruden, Adele, Ph.D., Mississippi State University, Professor

Irizarry, Yasmyn, Ph.D., Indiana University, Assistant Professor

Peterson, Lindsey P., Ph.D., Ohio State University, Assistant Professor

Ragsdale, Kathleen, Ph.D., University of Florida, Assistant Research Professor

Robertson, Angela A., Ph.D., Mississippi State University, Associate Director, Social Science Research Center, and Research Professor

Swindell, Marian L., Ph.D., University of Alabama, Associate Professor (Meridian)
Whiss, Harald E., Ph.D., Ohio State University, Assistant Professor
Participant (T=Teach; C=Committee Member)

Jones, James D., Ph.D., Western Michigan University, Professor Emeritus, C

Xu, Xiaoke, Ph.D., University of Michigan, Professor, University of Texas at San Antonio, C

COLLEGE OF BUSINESS
Adkerson School of Accountancy

Level 1
Addy, Noel D., C.P.A., Ph.D., University of Florida, Associate Professor

Dawkins, Louis, C.P.A., Ph.D., University of Arkansas, Professor

McNair, Frances, C.P.A., Ph.D., University of Mississippi, Professor

Rigsby, John T., C.P.A., D.B.A., Memphis State University, Associate Professor

Scheiner, James H., Ph.D., Ohio State University, Professor and Director, Adkerson School of Accountancy

Watson, Marcia L., Ph.D., University of Texas, Associate Professor

Level 2
Carver, Brian T., Ph.D., University of Tennessee, Assistant Professor

Ennis, Kevin L., Ph.D., Jackson State University, Assistant 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
Participant (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)

Garner, Jacqueline L., Ph.D., Georgia State University, Associate Professor (Finance) and John Nutie and Edie Dowdle Professor

Highfield, Michael J., Ph.D., CFA, University of Kentucky, Associate Professor (Finance), Robert W. Warren Chair of Real Estate, and Department Head

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 Director, International Business Academic Program

Rogers, Kevin E., Ph.D., University of Georgia, Professor (Economics) and Interim Associate Dean of Business

Roskelley, Kenneth D., Ph.D., University of Arizona, Associate Professor (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)

Orozco-Aleman, Sandra L., Ph.D., University of Pittsburgh, Assistant Professor (Economics)

Wade, Lloyd R., III (Chip), 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)
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Campbell, Charles A., Ph.D., University of Tennessee, Professor Emeritus (Economics), C

He, Wei (Helena), Ph.D., University of New Orleans, Instructor (Finance), T

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., Auburn University, Associate Professor (Management)

Oswald, Sharon L., Ph.D., University of Alabama, Associate Professor (Management)

Otando, Robert F., Ph.D., Arizona State University, Assistant 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)

Warkentin, Merrill, Ph.D., University of Nebraska-Lincoln, Professor (Information Systems)

Level 2
Crossler, Robert E., Ph.D., Virginia Tech, Assistant Professor (Information Systems)
<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
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</thead>
<tbody>
<tr>
<td>Marett, Kent</td>
<td>Ph.D., Florida State University, Assistant Professor (Information Systems)</td>
</tr>
<tr>
<td>Marler, Laura E.</td>
<td>D.B.A., Louisiana Tech University, Assistant Professor (Management)</td>
</tr>
<tr>
<td>Penney, Christopher R.</td>
<td>Ph.D., Florida State University, Assistant Professor (Management)</td>
</tr>
<tr>
<td>Shin, Seungjae</td>
<td>Ph.D., University of Pittsburgh, Associate Professor (Information Systems)</td>
</tr>
<tr>
<td>Templeton, Gary F.</td>
<td>Ph.D., Auburn University, Associate Professor (Information Systems)</td>
</tr>
<tr>
<td>Vardaman, James M.</td>
<td>Ph.D., University of Memphis, Assistant Professor (Management)</td>
</tr>
<tr>
<td>Gaskin, Keith</td>
<td>Research and Assessment and</td>
</tr>
<tr>
<td>Sullivan, Joe</td>
<td>Ph.D., New Mexico State University, Associate Professor (Quantitative Analysis)</td>
</tr>
<tr>
<td>Tahai, Alireza</td>
<td>Ph.D., Arizona State University, Professor (Quantitative Analysis)</td>
</tr>
<tr>
<td>Gainer, Donna Carol</td>
<td>Professor (T=Teach; C=Committee Member)</td>
</tr>
<tr>
<td>Shy, Jennifer</td>
<td>D.P.A., Western Michigan University,</td>
</tr>
<tr>
<td>Moore, Robert S.</td>
<td>Ph.D., University of Connecticut, Professor (Marketing)</td>
</tr>
<tr>
<td>Webster, Cynthia</td>
<td>Ph.D., University of North Texas, Professor (Marketing)</td>
</tr>
<tr>
<td>Chakrabarty, Subhra</td>
<td>D.B.A., Louisiana Tech University, Associate Professor (Marketing)</td>
</tr>
<tr>
<td>Collier, Joel E.</td>
<td>Ph.D., University of Memphis, Assistant Professor (Marketing)</td>
</tr>
<tr>
<td>Hill, William Wesley IL</td>
<td>Ph.D., University of Alabama, Assistant Professor (Marketing)</td>
</tr>
<tr>
<td>Liddell, Gloria J.</td>
<td>J.D., Howard University School of Law, Assistant Professor (Business Law)</td>
</tr>
<tr>
<td>Liddell, Pearson, Jr.</td>
<td>J.D., Howard University School of Law, Professor (Business Law)</td>
</tr>
<tr>
<td>Moore, Robert S.</td>
<td>Ph.D., University of Connecticut, Professor (Marketing)</td>
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<tr>
<td>Shy, Jennifer</td>
<td>D.P.A., Western Michigan University,</td>
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<tr>
<td>Sullivan, Joe</td>
<td>Ph.D., University of Alabama, Professor (Quantitative Analysis)</td>
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<tr>
<td>Tahai, Alireza</td>
<td>Ph.D., Arizona State University, Professor (Quantitative Analysis)</td>
</tr>
<tr>
<td>Verdell, Angela C.</td>
<td>M.S., Mississippi State University, Senior Procurement Specialist, Entergy Operations, Inc., T</td>
</tr>
<tr>
<td>Bourgeois, Thomas</td>
<td>Ph.D., Mississippi State University, Dean of Students</td>
</tr>
<tr>
<td>Crews, John E.</td>
<td>D.P.A., Western Michigan University, Health Scientist, Centers for Disease Control and Prevention, C</td>
</tr>
<tr>
<td>Gainer, Donna Carol</td>
<td>Ph.D., University of Tennessee, Instructor, T, C</td>
</tr>
<tr>
<td>LeLune, B.J.</td>
<td>M.Ed., University of Arkansas, Director, Deafblind Programs/Senior Research Associate,</td>
</tr>
</tbody>
</table>
Rehabilitation Research and Training Center on Blindness and Low Vision, T

Olivieri, Kathleen, Ph.D., Mississippi State University, Lead IT Consultant, Information Technology 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, MSU-Meridian, T
Wells, Debbie K., Ph.D., Mississippi State University, Lecturer, C, T
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 Interim Department Head
Burroughs, Charlotte D., Ph.D., Mississippi State University, Professor
Coffey, Kenneth, Ed.D., University of Alabama, Professor
Devlin, Sandy D., Ed.D., University of Alabama, Professor
Franz, Dana P., Ph.D., Texas A&M University, Associate Professor
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
McCarr, Janet F., Ph.D., Mississippi State University, Assistant Professor
Pope, Margaret, Ph.D., Mississippi State University, Associate Professor
Ratliﬀ, Lindon, Ph.D., University of Mississippi, Assistant Professor
Rosenblatt, Kara, Ph.D., University of Central Florida, Assistant Professor

Level 2

Robichaux, Rebecca R., Ph.D., Auburn University, Associate Professor
Shirley, Tory Swearingen, Ph.D., Mississippi State University, Assistant Professor
Triplitt, Kimberly M., Ph.D., Mississippi State University, Assistant Professor

Participant (T=Teach; C=Committee Member)

Benton, Gary J., Ed.D., University of Alabama, Lecturer (Professor Emeritus), T
Blue, Donna Lisa, Ed.S., Mississippi State University, Lecturer, T
Darling, Lynn D., Ph.D., University of Maryland, Director, Early Childhood Institute, C, T
Hamill, Burnette, Ph.D., University of Southern Mississippi, Professor (Retired), C
Ivy, Jessica T., Ph.D., University of Mississippi, Lecturer, T, C

Instructional Systems and Workforce Development

Level 1

Adams, James H., Ed.D., Oklahoma State University, Associate Professor and Graduate Coordinator
Cornelious, Linda, Ph.D., Florida State University, Professor
Du, Jianxia, Ph.D., University of Illinois at Urbana-Champaign, Associate Professor
Forde, Connie, Ph.D., University of Mississippi, Professor and Department Head
Okorie, Mabel C.P.O., Ph.D., Ohio State University, Associate Professor
Olinzock, Anthony A., Ed.D., University of Pittsburgh, Professor
Wyatt, John E., Ph.D., Southampton Institute, Associate Professor
Xie, Kui, Ph.D., University of Oklahoma, 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
Earle, Maria T., Ph.D., University of Houston, Assistant Professor

Participant (T=Teach; C=Committee Member)

Abraham, Patti S., Ed.D., Mississippi State University, Lecturer, C, T
Berryhill, Amy H., Ph.D., Mississippi State University, Lead IT Consultant, User Services, T, C
Butler, Malinda B., Ph.D., Mississippi State University, Lecturer, T
Olivieri, Kathleen C., Ph.D., Mississippi State University, Lead IT Consultant, ITS, C, T
Parker, Robin, Ed.D., Mississippi State University, Assistant Research Professor, T, C
Sears, Janice, Ph.D., Mississippi State University, Lecturer, T
Wampler, Lynn B., Ph.D., Mississippi State University, Lecturer, T

Kinesiology

Level 1
Abadie, Ben, Ed.D., University of Southern Mississippi, Professor
Brown, Stanley P., Ph.D., University of Southern Mississippi, Professor and Department Head
Vickers, John Bradley, Ph.D., University of Georgia, Assistant Professor
Webb, Heather E., Ph.D., University of Mississippi, Assistant Professor

Level 2
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Leadership and Foundations

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Music
Level 1
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BAGLEY COLLEGE OF ENGINEERING
Aerospace Engineering
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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, Provost and Executive Vice President, Professor
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Parajuli, Prem B., Ph.D., Kansas State University, Assistant Professor
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Biomedical Engineering
Level 1
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Chemical Engineering
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Computer Science and Engineering

**Level 1**

<table>
<thead>
<tr>
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<th>Institution/University</th>
<th>Title/Position</th>
</tr>
</thead>
<tbody>
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<td>Dandass, Yoginder</td>
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<td>Hansen, Eric</td>
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<td>Hodges, Julia E.</td>
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</tr>
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</tr>
<tr>
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</tr>
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<tr>
<td>Ramkumar, Mahalingam</td>
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<tr>
<td>Reese, Donna S.</td>
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</tr>
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<td>Swan, J. Edward II</td>
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</tr>
<tr>
<td>Vaughn, Rayford B., Jr.</td>
<td>Ph.D., Kansas State University</td>
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</tr>
<tr>
<td>Zhang, Song</td>
<td>Ph.D., Brown University</td>
<td>Associate Professor</td>
</tr>
</tbody>
</table>

**Level 2**

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution/University</th>
<th>Title/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bethel, Cindy L.</td>
<td>Ph.D., University of South Florida</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Williams, Byron J.</td>
<td>Ph.D., Mississippi State University</td>
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</tr>
<tr>
<td>Baca, Julie A.</td>
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</tr>
<tr>
<td>Bogen, Alfred Christopher</td>
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<td>SoftwareEngineer/Computer Scientist, Engineer R&amp;D Center, C</td>
</tr>
<tr>
<td>Boggess, Julian E., III</td>
<td>Ph.D., University of Illinois</td>
<td>Associate Professor, C</td>
</tr>
<tr>
<td>Bridges, Susan M.</td>
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</tr>
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<td>Butler, Cary D.</td>
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</tr>
<tr>
<td>Carver, Jeffrey C.</td>
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</tr>
<tr>
<td>Cheng, Jing-Ru C.</td>
<td>Ph.D., Pennsylvania State University</td>
<td>Research Scientist, US Army Corps of Engineers ERDC, T, C</td>
</tr>
<tr>
<td>Ellis, Stephen R.</td>
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</tr>
<tr>
<td>Lee, Sarah B.</td>
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</tr>
<tr>
<td>Morris, Gerald Roger</td>
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</tr>
<tr>
<td>Steed, Chad A.</td>
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</tr>
<tr>
<td>Wright, Margaret (Peggy) B.</td>
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</tr>
</tbody>
</table>

**Dean of Engineering**

**Participant (T=Teach; C=Committee Member)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution/University</th>
<th>Title/Position</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

**Electrical and Computer Engineering**

**Level 1**

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution/University</th>
<th>Title/Position</th>
</tr>
</thead>
<tbody>
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<td>Aanstoos, James V.</td>
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<td>Amburn, Elton Philip</td>
<td>Ph.D., University of North Carolina</td>
<td>Associate Research Professor</td>
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<td>Anderson, Derek T.</td>
<td>Ph.D., University of Missouri</td>
<td>Assistant Professor</td>
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<td>Bruce, Lori M.</td>
<td>Ph.D., University of Alabama in Huntsville</td>
<td>Professor and Associate Dean, Bagley College of Engineering</td>
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<td>Professor</td>
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<td>Du, Qian (Jenny)</td>
<td>Ph.D., University of Maryland-Baltimore County</td>
<td>Associate Professor</td>
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<td>Follett, Randolph F.</td>
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<td>Assistant Professor</td>
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<td>Poland, Endowed Professor</td>
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<td>Koshka, Yaroslav</td>
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<td>Professor</td>
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<td>Li, Pan</td>
<td>Ph.D., University of Florida</td>
<td>Assistant Professor</td>
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Mazzola, Michael, Ph.D., Old Dominion University, Professor
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<th>Name</th>
<th>Institution(s)</th>
<th>Level</th>
<th>Other Notes</th>
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<tr>
<td>Norton, Olin Perry</td>
<td>California Institute of Technology, Research Engineer, Institute for Clean Energy Technology (ICT), C</td>
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<td>Nunes, Arthur C., Jr.</td>
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<td>Qatu, Mohamad S.</td>
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<td>Solanki, Kiran N.</td>
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<td>Som, Sibendu</td>
<td>University of Illinois-Chicago, Mechanical Engineering, Energy Systems Division, Argonne National Laboratory, C</td>
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<td>Tomé, Carlos N.</td>
<td>National University of La Plata (Argentina), Team Leader, Los Alamos National Laboratory, C</td>
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<td><strong>COLLEGE OF FOREST RESOURCES</strong></td>
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<td>Barnes, H. M.</td>
<td>State University of New York, Professor</td>
<td>Level 2</td>
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<td>Borajani, Abdolhamid</td>
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<td>University of Georgia, Assistant Extension Professor</td>
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<td>Mississippi State University, Assistant Research Professor</td>
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<td>North Carolina State University, Professor and Graduate Coordinator</td>
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<td>Clemson University, Professor</td>
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<td>Mississippi State University, Department Head and Professor</td>
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<td>Baird, Richard E.</td>
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<td>Ain Shams University (Egypt), Assistant Research Professor</td>
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<td>North Carolina State University, Professor (retired), C</td>
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<td>Clausen, Carol A.</td>
<td>University of Wisconsin-Madison, Supervisory Research Microbiologist, C</td>
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<td>Green, Frederick, III</td>
<td>University of Wisconsin Medical School, Research Microbiologist, USDA Forest Service, C</td>
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<td>University of Wisconsin, Professor, Louisiana State University, C</td>
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<td>Mississippi State University, Assistant Professor, Kennesaw State University, C</td>
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<td>Martin, William V.</td>
<td>M.B.A., M.P.P.A., Mississippi State University, Director, Franklin Furniture Institute, C</td>
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<td>Mun, Sung Phil, Ph.D.</td>
<td>Kyushu University (Japan), Visiting Scientist, C</td>
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<td>Michigan Technological University, Associate Professor, University of North Texas, C</td>
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<td>Wu, Zhihui</td>
<td>Shimane University (Japan), Professor, and Dean of College of Furniture and Industrial Design, Nanjing Forest University (China), C</td>
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<td><strong>Forestry</strong></td>
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<td>Swedish University of Agricultural Sciences, Professor</td>
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<td>Hopper, George M.</td>
<td>Virginia Polytechnic Institute and State University, Professor and Dean, College of Forest Resources; Dean, College of Agriculture and Life Sciences</td>
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<td>Kushla, John D.</td>
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Stuart, William B., Ph.D., Virginia Polytechnic Institute and State University, Professor
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Miller, Debra Lee, Ph.D., D.V.M., Mississippi State University, Associate Professor, University of Tennessee, C

Millspaugh, Joshua J., Ph.D., University of Washington, Professor and Pauline O’Connor Distinguished Professor, University of Missouri, C
Mims, Steven D., Ph.D., Auburn University, Professor, Kentucky State University, Principal Investigator for Aquaculture Research Center, C
Moore, Matthew T., Ph.D., University of Mississippi, Research Ecologist, USDA ARS, C
Palmer, William E., Ph.D., North Carolina State University, Senior Scientist and Associate Research Director, C
Penny, Edward J., M.S., Mississippi State University, Migratory Game Bird Program Coordinator, MS Department of Wildlife, Fisheries, and Parks, C
Pierce, Samuel C., Ph.D., University of Memphis, Research Associate III, T
Pugh, Larry L., M.S., Mississippi State University, Assistant Director, Fisheries Bureau, MS Department of Wildlife, Fisheries, and Parks, C
Steeby, James A., Ph.D., Mississippi State University, Associate Extension Professor/Extension Specialist (retired), C
Taylor, Jimmy D., Ph.D., Mississippi State University, Supervisor Research Wildlife Biologist, USDA-National Wildlife Research Center, Corvallis, OR, C
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Wiggers, Ernie P., Ph.D., Texas Tech University, CEO of Nemours Wildlife Foundation, C
Wigley, Thomas Bently, Jr., Ph.D., Mississippi State University, Manager, Sustainable Forestry Research Program, National Council for Air and Stream Improvement, Inc., C
Yager, Lisa Y., Ph.D., Mississippi State University, Research and Collections Coordinator, Mississippi Museum of Natural Science, C

COLLEGE OF VETERINARY MEDICINE
Basic Sciences
Level 1
Carr, Russell, Ph.D., Mississippi State University, Associate Professor
Chambers, Janice E., Ph.D., Mississippi State University, Director of Center for Environmental Health Sciences and Professor
Coyne, Cody P., D.V.M., Ph.D., University of California, Professor
Eells, Jeffrey B., Ph.D., Southern Illinois University, Associate Professor
Hanson, Larry, Ph. D., Louisiana State University, Professor
Karsi, Atilla, Ph.D., Auburn University, Assistant Research Professor
Lawrence, Mark L., D.V.M., Ph.D., Louisiana State University, Associate Dean and Professor
McCarthy, Fiona M., Ph.D., Institute for Molecular Biology, University of Queensland (Australia), Assistant Professor
Nanduri, Bindu, Ph.D., University of Arkansas for Medical Sciences, Assistant Professor
Petrie-Hanson, Lora, Ph.D., Mississippi State University, Associate Professor
Pharr, G. Todd, Ph.D., Mississippi State University, Associate Professor
Pinchuk, Lesya M., M.S., Ph.D., Institute of Medical Genetics, Moscow (Russia), Associate Professor
Pote, Linda M., Ph.D., University of Arkansas, Professor
Pruett, Stephen B., Ph.D., Louisiana State University School of Medicine, Professor and Department Head
Ross, Matthew K., Ph.D., University of California, Associate Professor
Varela-Stokes, Andrea S., D.V.M., Ph.D., Tufts University School of Veterinary Medicine; Ph.D., University of Georgia, Assistant Professor
Wang, Chinling, D.V.M., Ph.D., University of Georgia, Associate Professor

Level 2
Crow, John Allen, M.D., Ph.D., Vanderbilt University, Assistant Research Professor
Seo, Keun Seok, D.V.M., Seoul National University; Ph.D., University of Idaho, Assistant Research Professor
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Participant (T=Teach; C=Committee Member)
Stokes, John V., M.S., University of Georgia, Research Associate III; Director, Department of Basic Sciences Core Flow Cytometry Facility, T
Swiatlo, Edwin, Ph.D., M.D., Chicago Medical School, Professor, Department of Medicine, University of Mississippi Medical School, C
Wang, Nan, Ph.D., Mississippi State University, Assistant Professor, School of Computing, University of Southern Mississippi, C

Clinical Sciences

Level 1
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McLaughlin, Ron M. Jr., D.V.M., University of Missouri at Columbia; D.V.Sc., Ontario Veterinary College, Professor
Swiderski, Cyprianna E., D.V.M., University of Maryland; Ph.D., Louisiana State University, Associate Professor

Level 2
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Baravik-Munsell, Erica D., D.V.M., Mississippi State University, Assistant Clinical Professor
Brasher, Michael, D.V.M., Louisiana State University, Associate Professor
Brinkman, Erin, D.V.M., Mississippi State University, Assistant Professor
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Cooper, Robert C., D.V.M., Auburn University, Professor
Eddy, Alison L., D.V.M., Virginia-Maryland Regional College of Veterinary Medicine, Assistant Clinical Professor
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Kern, Margaret, D.V.M., Mississippi State University, Professor
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Lathan, Patty A., V.M.D., University of Pennsylvania; M.S. Purdue University, Assistant Professor
Linford, Robert L., D.V.M., Colorado State University; Ph.D., University of California, Professor
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Meyer, Robert E., D.V.M., Cornell University, Professor
Ray, Joel D., Jr., D.V.M., Mississippi State University, Assistant Clinical Professor
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Thomason, John M., D.V.M., Virginia-Maryland Regional College of Veterinary Medicine, Assistant Professor
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Shores, James Andrew, Ph.D., D.V.M., Auburn University, Clinical Professor
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Participant (T=Teach; C=Committee Member)

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Griffin, Brenda, D.V.M., University of Georgia, Adjunct Associate Professor, College of Veterinary Medicine, University of Florida, C
Miller, William W., Ph.D., D.V.M., Louisiana State University School of Veterinary Medicine; Auburn University, Veterinary Ophthalmologist, C
Pasquali, Marzia, Ph.D., University of Parma (Italy), Professor of Pathology; Medical Director, University of Utah School of Medicine, C

Pathobiology and Population Medicine

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Participant (T=Teach; C=Committee Member)
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Burgess, Shane C., Ph.D., Bristol University (UK), Dean, College of Agriculture and Life Sciences, University of Arizona, C
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Guo-Ross, Shirley X., Ph.D., University of California, Irvine, Research Associate III, T, C
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King, David Thomas, M.S., Auburn University, Research Wildlife Biologist, USDA, C
Momen, Nausheen, Ph.D., Kent State University, Research Psychologist, Naval Aerospace Medical Research Laboratory, C
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Parcells, Mark S., Ph.D., University of Florida, Associate Professor, University of Delaware, C
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Peterson, Brian C., Ph.D., University of Idaho, Research Physiologist, USDA-ARS, C
Randle, Richard F., D.V.M., Mississippi State University, Veterinary Extension Ruminant Health Specialist, C
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EMERITI FACULTY

Adebiyi, George, Professor Emeritus of Mechanical Engineering

Ainsworth, A. Jerald, Professor Emeritus of Basic Sciences

Akers, Jimmy D., Professor Emeritus of Electrical and Computer Engineering

Allen, Paul, Professor Emeritus of Business

Allen, Tip Henry, Jr., Professor Emeritus of Political Science

Alley, Earl G., Ph.D., State Chemist and Professor Emeritus of Chemistry

Althen, Thomas G., Professor Emeritus of Animal and Dairy Sciences

Altig, Ronald G., Professor Emeritus of Biological Sciences

Amburgey, Terry L., Professor Emeritus of Forest Products

Ammerman, Gale R., Professor Emeritus of Food Science and Technology

Amos, Neil G., Professor Emeritus of Curriculum and Instruction

Anderson, Robert G., Professor Emeritus of Communication

Andrews, Ann P., Instructor Emerita of English

Andrews, C. Hunter, Professor Emeritus of Plant and Soil Sciences

Arner, Dale H., Ph.D., Professor Emeritus of Wildlife and Fisheries

Arnett, Kirk P., Professor Emeritus of Information Systems

Awh, Robert Y., Professor Emeritus of Economics

Baird, Andrew W., Professor Emeritus of Sociology

Baker, Bryan, Jr., Professor Emeritus of Animal Science

Baker, Everard G., Professor Emeritus of Chemical Engineering

Ball, Billie J., Ph.D., Professor and Department Head Emeritus of Electrical and Computer Engineering

Bartlett, Jack L., Professor Emeritus of Art

Barrentine, Ben F., Professor Emeritus of Biochemistry, Animal Science, and Chemistry

Barrett, Lida K., Professor Emerita of Mathematics and Statistics and Dean Emerita of the College of Arts and Sciences

Baskin, Charles C., Professor Emeritus of Agronomy

Bateman, Margaret S., Associate Professor Emerita of Interior Design

Batson, William E., Jr., Professor Emeritus of Plant Pathology

Bauman, Leslie E., Professor Emeritus of Physics

Bazyari, Habib, Professor Emeritus of Business and Industry

Bearden, H. Joe, Professor Emeritus and Department Head Emeritus of Dairy Science

Bell, J. Thomas, Professor Emeritus in the Academic Program of the College of Veterinary Medicine

Bell, William D., Professor Emeritus of History and Chairman Emeritus of the Division of Arts and Sciences, Meridian Campus

Bennett, A. Wayne, Dean Emeritus of the James Worth Bagley College of Engineering, Professor Emeritus of Electrical and Computer Engineering

Bennett, G. Albert, Professor Emeritus of Aerospace Engineering

Benton, Gary J., Professor Emeritus of Education

Benton, Richard D., Professor Emeritus of Electrical and Computer Engineering

Berry, John, Professor Emeritus of Mechanical Engineering

Betts, Eula M., Associate Professor and Associate Dean Emerita of University Libraries

Bhansali, Krishnaprasad G., Professor Emeritus of Political Science

Bishop, Calvin T., Associate Professor Emeritus of Landscape Architecture

Blackbourn, Joe M., Professor Emeritus of Educational Leadership

Blaine, Mac Alan, Professor Emeritus of Plant and Soil Sciences

Blaney, Benjamin, Professor Emeritus of Foreign Languages

Blasingame, Donald J., Emeritus Extension Plant Pathologist

Bluhm, Louis H., Professor Emeritus of Sociology, Anthropology, and Social Work

Boatwright, Donald, Assistant Professor Emeritus of Aerospace Engineering

Bobbitt, Charles W., Associate Professor Emeritus of Engineering Mechanics

Boggess, Julian Eugene, III, Associate Professor Emeritus of Computer Science and Engineering

Boggess, Lois C., Professor Emerita of Computer Science

Boles, David C., Director Emeritus of Student Support and Retention and Associate Athletic Director Emeritus

Bond, Marvin T., Professor Emeritus of Civil Engineering and Director Emeritus of the Water Resources Research Institute

Bonney, William W., Professor Emeritus of English

Booth, Martha G., Assistant Professor Emerita of University Libraries

Boring, J. Gregg, Professor Emeritus of Clinical Sciences

Bouchillon, Charles W., Professor Emeritus of Mechanical Engineering

Boyd, Albert H., Professor and Department Head Emeritus of Plant and Soil Sciences

Boyd, Catherine, Professor Emerita of Human Sciences

Boyd, Leroy H., Professor Emeritus of Animal and Dairy Sciences
Boy, Michael E., Professor Emeritus of Animal and Dairy Sciences
Boy, John A., Professor Emeritus of Biochemistry and Molecular Biology
Branch, Larry, Assistant Professor Emeritus of Industrial Engineering
Bridges, Phillip D., Associate Professor Emeritus of Aerospace Engineering
Bridges, Susan, Professor Emeritus of Computer Science and Engineering
Brightwell, Shelby D., Professor and Head Emeritus of Health, Physical Education, Recreation and Sport
Brodax, Henry D., Jr., Director and Specialist Emeritus of Southern Rural Development Center
Brown, Larry G., Professor and Head Emeritus of Industrial Engineering
Brown, Lewis R., Professor Emeritus of Microbiology in the Department of Biological Sciences
Brown, Ronald A., Director Emeritus of Mississippi State University Extension Service, Professor Emeritus of Agricultural Information Science and Education
Bryan, Gordon Key, Professor Emeritus of Political Science
Bryan, Laura, Associate Professor Emerita of Education
Bryant, Ellen S., Professor Emerita of Sociology
Bryant, James August, Professor Emeritus of Business Law
Buehler, George, Professor Emeritus of Foreign Languages
Bull, Gifford, Associate Professor Emeritus of Aerospace Engineering
Bunch, Harry Dean, Professor Emeritus of Agronomy and Director Emeritus of International Programs
Burkett, Sandra P., Professor Emerita of Curriculum and Instruction
Burt, Roffie, Associate Professor Emeritus of Civil Engineering
Burler, Charles M., Professor Emeritus of Quantitative Analysis, College of Business and Industry
Caldwell, Thomas P., Associate Professor Emeritus of English
Campbell, Charles, Professor Emeritus of Economics
Cappella, Louis M., Professor Emeritus of Marketing
Cardwell, Joe T., Professor Emeritus of Dairy Manufacturing (Dairy Foods)
Carley, Charles T., Jr., Professor Emeritus of Mechanical Engineering and Head Emeritus of Mechanical and Nuclear Engineering
Carlson, Karl W., Associate Professor Emeritus of Electrical Engineering
Carnes, Walter R., Professor Emeritus of Aerospace Engineering and Associate Dean Emeritus of the College of Engineering
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Carpenter, June H., Professor Emerita of Human Sciences
Carpenter, Roy E., Professor Emeritus of Management and Information Systems
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Cheatham, Danny L., Assistant Director Emeritus, Mississippi Cooperative Extension Service
Chen, Luh-Hua, Professor Emeritus of Agricultural and Biological Engineering
Chen, T. C., Professor Emeritus of Food Science, Nutrition and Health Promotion
Cleveland, O. A., Jr., Professor Emeritus of Agricultural Economics
Cliett, Charles B., Professor Emeritus of Aerospace Engineering and Head Emeritus of the Department of Aerospace Engineering
Clynch, Edward J., Professor Emeritus of Political Science and Public Administration
Coats, Euel, Professor Emeritus of Weed Science
Cole, Avean Wayne, Professor Emeritus of Plant and Soil Sciences
Cole, Harry, Professor Emeritus of Civil and Environmental Engineering
Collins, Geraldine, Professor Emerita of Music Education
Collins, Morris W., Jr., Professor Emeritus of the John C. Stennis Institute
Collison, Clarence, Professor and Department Head Emeritus of Entomology & Plant Pathology
Combs, Leon L., Professor and Head Emeritus of Chemistry
Combs, Robert L., Jr., Professor Emeritus of Entomology
Cook, Glenn, Associate Professor Emeritus of Landscape Architecture
Cook, Robert L., Professor Emeritus of Physics and Astronomy
Cornell, David, Professor Emeritus of Chemical Engineering
Corey, Marion W., Professor Emerita of Civil Engineering
Correro, Gloria C., Professor Emerita of Curriculum and Instruction and Associate Dean Emerita of Education
Coskrey, Homer Sneed, Jr., Dean Emeritus of Continuing Education
Cotton, Frank E., Professor Emeritus and Department Head Emeritus of Industrial Engineering
Couvillion, Marion B., Associate Professor Emerita of Communication
Couvillion, Warren C., Professor Emeritus of Agricultural Economics
Crecink, John C., Professor Emeritus of Agricultural Economics
Creech, Roy G., Professor and Head Emeritus of Plant and Soil Sciences
Croft, W. Lawrence, Professor and Head Emeritus of Physics and Astronomy
Cross, William Lewis, Associate Professor Emeritus of Accounting and Associate Dean Emeritus of the College of Business and Industry
Crow, Terry T., Professor Emeritus and Head Emeritus of Physics and Astronomy
Crowder, Laurin Peyton, Professor Emerita of Music Education
Crowell, Lorenzo M., Associate Professor Emeritus of History
Cunetto, Dominic J., Professor Emeritus of Communication
Curry, Joseph Francis, Professor Emeritus of Accounting
Daniel, Troy E., Professor Emeritus of Accounting
Daum, Henry A., Jr., Associate Professor Emeritus of Sociology/Social Work
Davis, Edna Ruth, Professor Emerita of Social Work, Sociology and Anthropology
Davis, Frank M., Professor Emeritus of Entomology
Davis, Fred, Professor Emeritus of Computer Science
Dawkins, Louis E., Professor Emeritus of Accountancy and Director Emeritus
Day, E.J., Professor Emeritus of Poultry Science
De La Cruz, Armando, Professor Emeritus of Biological Sciences
Delouche, James Curtis, Professor Emeritus of Plant and Soil Sciences
Denson, Jack E., Professor Emeritus of Physics and Astronomy
Denson, Keith H., Professor Emeritus of Civil Engineering
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Dodd, Jimmy L., Professor Emeritus of Electrical Engineering
Dodson, Wanda L., Professor Emerita of Human Sciences
Donathy, Henry J., Professor Emeritus of English
Doolittle, M. Larry, Research Professor Emeritus
Doty, Don D., Professor Emeritus of Economics
Downer, Donald N., Professor Emeritus of Biological Sciences
Downey, Mary F., Assistant Professor Emerita of University Libraries
Drapala, Walter J., Professor Emeritus of Experimental Statistics and Agronomy and Head Emeritus of Experimental Statistics
Dudley, E. Sam, Professor Emeritus of Communication
Duet, Edwin, Professor Emeritus of Finance and Chair Emeritus of Insurance
Dukes, Julie, Assistant Professor Emerita of Curriculum and Instruction
Etherly, Billy J., Professor Emeritus of Economics, College of Business and Industry
Ector, Betty J., Associate Professor Emerita of Human Sciences
Edmond, Joseph B., Professor Emeritus of Horticulture
Edwards, Felix Ewing, Professor Emeritus of Agricultural and Biological Engineering
El-Attar, Mohamed, Professor Emeritus of Sociology
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Emerich, Donald Warren, Professor Emeritus of Chemistry
Emplaincourt, Edmond D., Professor and Head Emeritus of Foreign Languages
Engelland, Brian T., Professor Emeritus of Marketing and Department Head Emeritus
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Epps, James W., Professor Emeritus of Civil Engineering
Eshee, William D. “Denny,” Jr., Professor Emeritus of Business Law
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Fazio, Michael W., Professor Emeritus of Architecture
Feig, Douglas G., Professor Emeritus of Political Science and Public Administration
Ferguson, Joseph L., Professor Emeritus of Physics and Astronomy
Fisher, Thomas H., Professor Emeritus of Chemistry
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Forbes, Richard E., Professor Emeritus of Mechanical Engineering
Ford, Robert M., Professor Emeritus of Architecture
Forrest, Charles S., Professor Emeritus of Agricultural Economics
Foster, Bill R., Assistant Vice President Emeritus of Student Affairs
Fox, William R., Professor Emeritus of Agricultural and Biological Engineering and Dean Emeritus of Agriculture and Life Sciences
Frese, Wolfgang, Professor Emeritus of Sociology, Anthropology, and Social Work
Fuller, Marty J., Professor Emeritus of Agricultural Economics
Futrell, Mary F., Professor Emerita of Home Economics
Fuquay, John W., Professor Emeritus of Animal and Dairy Sciences
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Gatlin, Boyd, Associate Professor Emeritus of Aerospace Engineering
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Giglioni, John Giovannie B., Professor Emeritus of Management and International Business
Giglioni, Joyce B., Professor Emerita of Management
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Giles, William A., Associate Professor Emeritus of Political Science
Glick, Bruce, Professor Emeritus of Poultry Science
Godbold, Edward, Professor Emeritus of History
Gourley, Lynn M., Professor Emeritus of Plant and Soil Sciences
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Graves, William H., Professor Emeritus of Counselor Education and Educational Psychology and Dean Emeritus of Education
Grill, Johnpeter H., Professor Emeritus of History
Grimes, Alton C., Professor Emeritus of Mathematics
Grimes, Paul, Professor Emeritus of Economics and Associate Dean Emeritus
Groce, A. Wayne, Professor Emeritus of Veterinary Medicine
Grootherk, Paul, Professor Emeritus of Art
Gunter, John E., Professor Emeritus of Forestry and Dean Emeritus of Forest Resources
Guyton, Robert D., Professor Emeritus of Electrical Engineering
Hagan, Fay, Professor Emerita of Agricultural and Experimental Statistics
Hall, Harold B., Dean of Students Emeritus
Hall, William B., Professor Emeritus of Chemical Engineering
Hamil, James G., Professor Emeritus of Agricultural Economics
Handy, Thomas H., Associate Professor Emeritus of Political Science
Harden, James C., Professor Emeritus of Electrical and Computer Engineering
Hare, Mary Louise, Professor Emerita of Botany
Hare, Woodrow W., Professor Emeritus of Plant Pathology and Weed Science
Hargrove, Nancy D., Giles Distinguished Professor Emerita of English
Harkness, John E., Professor Emeritus of Veterinary Medicine
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
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<tbody>
<tr>
<td>Harris, Frank Aubrey,</td>
<td>Professor Emeritus of Entomology and</td>
<td>Plant Pathology</td>
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<tr>
<td>Haug, C. James</td>
<td>Professor Emeritus of History</td>
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<tr>
<td>Hawkins, Ewell O.</td>
<td>Professor Emeritus of English</td>
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<tr>
<td>Haynes, Robert L.</td>
<td>Professor Emeritus of Poultry Science</td>
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<tr>
<td>Head, Robert B.</td>
<td>Emeritus Cotton Extension Entomologist</td>
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<tr>
<td>Heitz, James L.</td>
<td>Professor Emeritus of Biochemistry and</td>
<td>Molecular Biology</td>
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<td>Heller, Robert</td>
<td>Associate Professor Emeritus of Mathematics</td>
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<tr>
<td>Hendren, Glen</td>
<td>Professor Emeritus of Counseling and</td>
<td>Educational Psychology</td>
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<tr>
<td>Herrington, Clyde</td>
<td>Associate Professor Emeritus of Accountancy</td>
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<tr>
<td>Herrington, Dora R.</td>
<td>Professor Emerita of Accountancy</td>
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<tr>
<td>Herrington, John W. Jr.</td>
<td>Professor Emeritus of Electrical and</td>
<td>Computer Engineering</td>
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<td>Hershberger, Robert A.</td>
<td>Peter K. Lutken Chair of Insurance</td>
<td>and Professor Emeritus of Finance and Economics</td>
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<td>Hester, Leslie R.</td>
<td>Professor Emeritus of Aerospace Engineering</td>
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<tr>
<td>Hill, Caroline K.</td>
<td>Professor Emerita of Human Sciences</td>
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<td>Hill, Donald O.</td>
<td>Professor Emeritus of Chemical Engineering</td>
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<tr>
<td>Hill, Sidney R., Jr.</td>
<td>Professor Emeritus of Communication</td>
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<tr>
<td>Hodge, Keith</td>
<td>Professor Emeritus of Mechanical Engineering</td>
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<tr>
<td>Hodge, S. Gayle</td>
<td>Instructor Emeritus</td>
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<tr>
<td>Hodge, Harry F.</td>
<td>Professor Emeritus of Plant and Soil</td>
<td>Sciences</td>
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<tr>
<td>Hodge, John D.</td>
<td>Professor Emeritus of Forestry</td>
<td></td>
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<tr>
<td>Holland, Gertrude Pepper</td>
<td>Professor Emerita of Management</td>
<td></td>
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<tr>
<td>Hood, Burrell S.</td>
<td>Professor Emeritus of Music Education</td>
<td></td>
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<tr>
<td>Horn, D. Donovan</td>
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<td></td>
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<tr>
<td>Housley, Warren F.</td>
<td>Professor and Head Emeritus of Counselor</td>
<td>Education and Educational Psychology</td>
</tr>
<tr>
<td>Howard, Esther</td>
<td>Professor Emerita of Curriculum,</td>
<td>Instruction, and Special Education</td>
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<tr>
<td>Howell, Beverly R.</td>
<td>Professor Emerita of Human Sciences</td>
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Transfer Credit (also see specific degree requirement) 

Time Limit for Degree:

Thesis (see specific degree and program requirements) 

Tuition Exemptions:

Academic Common Market Nonresident 

Alumni Nonresident 

Employees 

Nonresident 

Senior Citizens 

Tuition Refunds

U

Unclassified Admission and Registration 

Undergraduate Enrollment in Graduate Courses 

University Officers 

Unpaid Balances from Previous Semesters

V

Veterans, G.V. “Sonny” Montgomery Center for America’s 

Veterinary Medical Science 

Veterinary Medicine, College of 

Veterinary Medicine, College of (Division of Research)

W

Waiver, Out of State Tuition/Fees 

Weed Science 

Wildlife, Fisheries and Aquaculture, Department of 

Withdraw from the University 

Workforce Education Leadership
### Quick Reference to Degrees, Programs, and Admission Requirements

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- Master of Agribusiness Management (M.A.B.M.)
- Master of Arts (M.A.)
- Master of Arts in Teaching (M.A.T.)
- Master of Arts in Teaching-Secondary (M.A.T.S.)
- Master of Business Administration (M.B.A.)
- Master of Engineering (M.Eng.)
- Master of Landscape Architecture (M.L.A.)
- Master of Professional Accountancy (M.P.A.)
- Master of Science in Information Systems (M.S.I.S.)
- Master of Science in Instructional Technology (M.S.I.T.)
- Master of Taxation (M.TX.)
- Educational Specialist (Ed.S.)
- Doctor of Philosophy (Ph.D.)

#### Abbreviations for Majors and Concentrations (alpha order by name):

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#### Other:
- GPA: Grade Point Average
- GMAT: Graduate Management Admission Test
- GRE: Graduate Record Examination
- IELTS: International English Language Testing Systems
- TOEFL: Test of English as a Foreign Language

Chart below is in alpha order by abbreviation of major.
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"yes" = required standardized test