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Graduate Catalog

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Graduate Catalog

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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, college dean, and dean of the Graduate School.

This Catalog 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 Catalog 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.

Academic Policies

Honor Code

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

Academic Requirements

Academic Performance

A student’s academic progress is determined by his or her department. Each academic program shall establish and document standards that define satisfactory academic performance specific to that program. Unsatisfactory academic performance indicators may include: inadequate grade point average, too many grades below a B, too many U grades, failure(s) on preliminary/comprehensive examination, unsatisfactory defense(s) of thesis or dissertation, and/or failure on any other required component of one's graduate program.

Degree Completion

To graduate, the student must complete all University and degree program requirements listed in the Catalog of the Graduate School under which he/she began the program. A graduate student cannot graduate with

1. a GPA lower than 3.00 for all courses attempted for graduate credit after admission to the degree program or
2. a grade less than a C on the program of study or
3. more than two courses not exceeding 8 credit hours of grades below a B earned for all courses since admission into the program, including those outside the program of study* or
4. a grade of I (Incomplete) on his/her transcript.

*NOTE: The original grade for a course that is retaken and in which the student earned a grade of B or higher will not be included in the eight hours. However, the original grade is included as part of the calculation of the GPA.

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 to MSU.

A GPA of 3.00 on the minor coursework is required for students completing a minor.

Incomplete Grades/Change of Grades

An instructor may submit a grade of I (Incomplete) when a student does not complete the course requirements. Graduate students who receive a grade of I must complete all work no later than the last day of class of the next semester (excluding summer) whether the student is enrolled or not. Failure to remove an I grade during the specified time will result in the automatic grade of F. Once this has occurred, no additional grade change is allowed except under extreme circumstances as approved by the Provost. I grades cannot be assigned for thesis/dissertation credits.

Provisional Admission Requirements

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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.**

Graduation

A candidate for a degree must apply for graduation online via MyState and pay the required fee by the final date set by the Registrar for the semester of graduation. Deadline and fee information are posted on the Graduate Academic Calendar (http://catalog.msstate.edu/graduate/academic-calendar) and on the Registrar’s website. The degree applicant must arrange cap and gown rental through the MSU Barnes & Noble Bookstore. A candidate for a degree should be present at commencement for the official conferring of the degree.

A student who applies for graduation in a certain semester and subsequently does not graduate must apply again and pay another application fee. Degree applications and application fees do not roll over to a following semester.

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.

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] www.msstate.edu/dept/audit/PDF/1218.pdf

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

Students enrolled in graduate programs (master's, educational specialist, or doctoral) offered via distance learning and requiring a thesis or dissertation must meet established research requirements as stated in the Mississippi State University *Graduate School Catalog*. 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.).

Degree Program Forms

Listed below are the Degree Program F (http://www.grad.msstate.edu/forms/#special)orms (http://www.grad.msstate.edu/forms) used by master's, educational specialist, and doctoral students. They, along with all other graduate-student forms, are posted on the Graduate School website (http://www.grad.msstate.edu). Although the major professor and committee are integral to the process, the student is primarily responsible for the completion of the forms and their timely submission to the Graduate School. The student and the department must retain copies of all submitted forms.

Master's Degree Forms

Graduate Committee Request (http://www.grad.msstate.edu/forms/pdf_forms/comittee_request.pdf) (not required in some non-thesis master's programs with no variation in program of study and/or with standardized examinations)

Graduate Program of Study (http://www.grad.msstate.edu/forms/pdf_forms/graduate_program_of_study.pdf)

Declaration of Examination/Defense (http://www.grad.msstate.edu/forms/pdf_forms/comprehensive_exam_announcement.pdf)

Educational Specialist Forms

Graduate Committee Request (http://www.grad.msstate.edu/forms/pdf_forms/comittee_request.pdf)

Graduate Program of Study (http://www.grad.msstate.edu/forms/pdf_forms/graduate_program_of_study.pdf)

Declaration of Examination/Defense (http://www.grad.msstate.edu/forms/pdf_forms/comprehensive_exam_announcement.pdf)

Doctoral Forms

Graduate Committee Request (http://www.grad.msstate.edu/forms/pdf_forms/comittee_request.pdf)

Graduate Program of Study (http://www.grad.msstate.edu/forms/pdf_forms/graduate_program_of_study.pdf)

Declaration of Examination/Defense (http://www.grad.msstate.edu/forms/pdf_forms/comprehensive_exam_announcement.pdf)

Report of Examination Results (https://www.grad.msstate.edu/results) (accessible only to faculty members and must be submitted to the Graduate School by the department)

Admission to Candidacy (http://www.grad.msstate.edu/forms/pdf_forms/admission_to_candidacy.pdf)

Other Forms, as Required (All Degrees)

Request for Change of Committee Members (http://www.grad.msstate.edu/forms/pdf_forms/request_for_change_of_committee_members.pdf)

Distance Student Certification of Off-Campus/Non-MSU Research Facility (http://www.grad.msstate.edu/forms/pdf_forms/distance_student_certification_of_off_campus_non_msu_research.pdf)

Graduate Program of Study-Continuation (http://www.grad.msstate.edu/forms/pdf_forms/grad_prog_of_study_cont.pdf) (to use when more space is required)

Program of Study-Attachment (http://www.grad.msstate.edu/forms/pdf_forms/grad_prog_of_study_attach_doc.pdf) (to list courses taken previously that satisfy current degree requirements but are not on the program of study)

Change to Graduate Program of Study (http://www.grad.msstate.edu/forms/pdf_forms/change_to_graduate_program_of_study.pdf)

Transfer Approval Form (http://www.grad.msstate.edu/forms/pdf_forms/transfer_approval_form.pdf)

Request to Retake a Course (http://www.grad.msstate.edu/forms/pdf_forms/request_to_retake_a_course.pdf)

Form Submitted Only by the Department (All Degrees)

Report of Examination Results (https://www.grad.msstate.edu/results) (accessible only to faculty members and must be submitted to the Graduate School by the department)

Enrollment Requirements

Policies regarding enrollment for graduate students differ significantly from those for undergraduate students. This section defines and details policy and procedure regarding requirements for part-time, full-time, and continuous enrollment.

Continuous Enrollment

A graduate student who has completed all coursework and lacks only sitting for the comprehensive examination (non-thesis master's and educational specialist student) or completion of a master's thesis, educational specialist thesis, or doctoral 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) until degree requirements are met. This requirement applies to students in one of the following circumstances:

- a doctoral student who has completed all coursework, passed preliminary/comprehensive examinations, and been admitted into candidacy;
- a non-thesis educational specialist student who has completed all coursework but has not taken or passed comprehensive examinations;
- a thesis-option educational specialist student who has completed all coursework, passed examinations, and is working on a thesis;
- a non-thesis master's degree student who has completed coursework but has not taken or passed comprehensive examinations; or
- a thesis-option master's degree student who has completed all coursework, passed comprehensive examinations, and is working on a thesis.

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

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

- **takes a comprehensive examination;**
- **proposes a thesis/dissertation;**
- **defends a thesis/dissertation;**
- **submits initial and final thesis/dissertation document to the Library.**

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

Full-time Course Load

Fall and Spring

A full-time course load in fall and spring semesters is enrollment in 9-13 credit hours. A student may register for up to 16 hours by submitting to the Registrar's Office a scheduling overload form approved by the student's college dean. The form is available at http://www.provost.msstate.edu/resources/students/forms/forms/Request_for_scheduling_overload_graduate_students.pdf. This form does not need approval or processing by the Office of the Graduate School. It should be completed in the student's department and sent directly to the Registrar.

Summer

The Summer 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 credit 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 who receives 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.

Graduate Committee

Membership

Each degree section of this publication lists committee membership requirements specific to that degree. The student and committee submit a completed committee request form to the Office of the Graduate School. If problems should arise concerning committee membership, the student should follow the academic appeal procedure.

Membership Changes

When a student's committee membership must change, the change(s) are submitted to the Graduate School on the committee change form which requires signatures of the new and departing committee member(s) and the student. If, subsequent to the administration of the final or oral/written comprehensive examination, a student's request to remove a member of the graduate committee is not met with the approval of that member, then the student must submit to the dean of the Graduate School a written request containing suitable justification for removal of the committee member. The dean of the Graduate School will then decide if removal is necessary and accordingly inform the student, the committee member, the major professor, and the graduate coordinator.

MSU Graduate Faculty

A faculty member must have a current Graduate Faculty appointment to serve on a student's graduate committee. MSU Graduate Faculty members (http://catalog.msstate.edu/graduate/faculty) are listed by college/department in this Catalog.

Program of Study Policies

Program of Study

Using the Graduate C*atalog* for the academic year of admission, the student must complete with his/her graduate committee a program of study consisting of all graduate-level courses required for degree completion according to the University-approved requirements and the program requirements. The student and committee must also identify research skill requirements and/or other requirements for degree completion. A student may be required to take an ESL, LSK, or undergraduate course; however, these courses or an audited course cannot be included on a program of study. Courses taken in previous graduate work that fulfill current degree requirements are not part of the current program of study but are listed on the Attachment Shee (http://www.grad.msstate.edu/forms/pdf_forms/grad_prog_of_study_attach_ed.pdf)t to show fulfillment of the requirement.

Program of Study Changes

If a program of study submitted to the Graduate School subsequently changes, the student must submit an approved change of program form to make required additions and deletions.

Prerequisites

Students may be required by their degree program to take prerequisite or leveling courses. The department will decide when the student has satisfied these requirements. Prerequisites that are part of contingent admission to the program must be met before the student can fulfill graduation requirements.

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 two potential sources of credit hours are one or both 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**) and those earned in another graduate program at MSU, whether or not used to satisfy the requirements of a previously earned degree (**shared**). Students who transition from an unclassified admission into a degree program may also apply up to 9 hours of unclassified graduate work. Credit hours can be shared between or transferred to degrees of the same or different level. 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 not eligible for transfer. Master's or Educational Specialist students can transfer up to 9 hours of courses used to earn a previous degree. At the doctoral level, transfer credit cannot exceed one-half of the coursework requirement.

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.

Course Retake Policy

A student may retake a course if his/her Request to Retake a Course (http://www.grad.msstate.edu/forms/pdf_forms/request_to_retake_a_course.pdf) request is approved. Only one course per degree can be repeated, and this policy applies to any graduate course taken since the beginning of enrollment in the current program. The repeated course must be taken at MSU. A record of both courses taken will remain on the permanent transcript, and both grades will be included in the computation of the final GPA. **No additional program credit hours are generated from a repeated course**.

Some courses are approved for repeated enrollment and credit (e.g., internships, special topics, thesis, dissertation, etc.), and additional program credit hours can be generated in these cases.

A student who has taken a course at the 4000 level is not allowed to enroll in the same course for credit at the 6000 level without explicit permission of the instructor and graduate coordinator of the department offering the course, and the dean of the Graduate School.

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. The option of a minor is at the sole discretion of the major area in which the program is offered and must be designated on the student's program of study. A 3.00 GPA in the minor courses is required.

Up to one-third of the required hours for a minor may be transferred to MSU. Hours transferred toward fulfillment of a minor must be relevant in content to the graduate program when the degree is awarded and must fit within the time-limit requirements for the specific degree.

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.

Accelerated Programs (Combined B.S./M.S.)

Accelerated Programs (Combined B.S./M.S.) are offered by the departments listed below. These programs permit highly qualified undergraduate students to earn graduate credit during the final year of undergraduate studies. Upon completion of the credits, the students also earn undergraduate credit for the same course(s). For complete information, see the department section of interest in this Catalog.

College of Agriculture and Life Sciences

- Plant and Soil Sciences (http://catalog.msstate.edu/graduate/colleges-degree-programs/agriculture-life-sciences/plant-soil-sciences/#text)

College of Arts and Sciences

- Biological Sciences (http://catalog.msstate.edu/graduate/colleges-degree-programs/arts-sciences/biological-sciences)
- History (http://catalog.msstate.edu/graduate/colleges-degree-programs/arts-sciences/history)

College of Business/Bagley College of Engineering

- Industrial and Systems Engineering (http://catalog.msstate.edu/graduate/colleges-degree-programs/engineering/industrial-systems)/ Master of Business Administration (http://catalog.msstate.edu/graduate/colleges-degree-programs/business/mba)

Bagley College of Engineering

- Computer Science and Engineering (http://catalog.msstate.edu/graduate/colleges-degree-programs/engineering/computer-science)
- Electrical and Computer Engineering (http://catalog.msstate.edu/graduate/colleges-degree-programs/engineering/electrical-computer)
- Industrial and Systems Engineering (http://catalog.msstate.edu/graduate/colleges-degree-programs/engineering/industrial-systems)
- Master of Engineering (http://catalog.msstate.edu/graduate/colleges-degree-programs/engineering/meng) (interdisciplinary)

Academic Probation, Dismissal, and Appeal

Academic Probation

A graduate student shall be placed on academic probation beginning in the following semester if: 1) his or her GPA falls below 3.00, or 2) he or she receives a third course grade lower than a B. A student may also be placed on academic probation if he or she falls short of any other standards for satisfactory academic performance established by their academic unit. 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. This remediation plan must specify a required date of completion. If the student intends to pursue the academic appeal process relating to the reason for being placed on probation, he or she must do so during the first probationary semester.

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 period, the student has not met the requirements outlined in the remediation plan, she or he shall be dismissed.

Grade Appeal

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

Academic Dismissal

A graduate student shall be dismissed from the University if: 1) he or she receives a second course grade less than a C, 2) he or she receives a fourth course grade less than a B, or 3) he or she is found to be responsible for violating the Student Honor Code for a second time. A student may also be dismissed from the University if he or she fails to meet the requirements placed upon them when he or she was placed on academic probation. A student may also be dismissed from the University if he or she falls short of any standards established by his or her academic unit. (See Academic Performance and Unsatisfactory Performance in this section.) The dismissal process begins with a Recommendation for Academic Dismissal (http://www.grad.msstate.edu/forms/pdf/dismissal.pdf) form (a letter may be attached) from the graduate coordinator, approved by the college dean, to the dean of the Graduate School to recommend 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 through the U.S. Postal Service and is also emailed to the student's MSU account The dismissal letter informs the student that any schedule of classes for the following semester(s) will be dropped, and the Office of the Graduate School (OGS) places an academic dismissal hold on the student's record to prevent further enrollment. The student may refer to the Graduate Catalog for information regarding the appeals process (see Academic Dismissal Appeal Procedure below). 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).

Academic Dismissal Appeal Procedure

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

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

The academic dean must inform the OGS when an appeal is received and may choose either to

1. render a decision directly and notify the student of his/her decision in writing and copy the correspondence to the Graduate School, or
2. submit a request to the OGS to convene a subcommittee of the Graduate Council to review the student's appeal.

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

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

Registration and Schedule Changes

Registration

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

To receive a RAC an **unclassified graduate student** must submit an unclassified registration form to the Graduate School after receiving permission from the department(s) in which the student plans to take coursework. A staff member in the department must enter a major override for each course to allow the student's registration to occur. The approval steps in this process are outlined on the form and must be followed. Access the form at the Unclassified Registration Form Webpage (http://grad.msstate.edu/forms/pdf_forms/unclassified_graduate_worksheet.pdf).

Course Retake Policy

Course Retake Policy is provided in the Program of Study Subsection (http://catalog.msstate.edu/graduate/academic-policies/program-of-study/#courseretakestext) of the Academic Policies Section.

Add/Drop

(Add or drop an individual course)

- Add/Drop without penalty - A student can drop a class during fall and spring semesters through the fifth class day and can add a course through the sixth class day without fee assessment or academic penalty.
- Drop after the fifth class day through the 30th class day - A student who drops a course after the fifth day will receive a W on his/her transcript and be assessed a fee. The student's advisor must specify the effective date on the Add/Drop form.

- **Drop after 30th class day** - A student can drop classes after the 30th class day in documented cases of serious illness, extreme hardship, or failure of the instructor to provide significant assessment of academic performance. The student's advisor and academic dean must approve the request, and the dean must specify the effective date. The student receives a W on the transcript and is assessed a fee.

Summer term add/drop schedules are found on the Graduate Academic Calendar (http://catalog.msstate.edu/graduate/academic-calendar).

By dropping a course, the student avoids the automatic assignment of grades of F and assessment of outstanding tuition and fees, even if the student never attended the class. Following the outlined procedure also avoids future difficulties in obtaining transcripts or reentering the University.

Withdrawal

(Drop entire current semester schedule)

To drop an entire current semester schedule, the student accesses the Withdrawal Request found on the MyBanner for Students Registration Menu. **By completing this process, the student avoids the automatic assignment of grades of F and assessment of outstanding tuition and fees, even if the student never attended class. Following the outlined procedure also avoids future difficulties in obtaining transcripts or reentering the University.** In most circumstances the student is permitted to register for the subsequent semester without penalty.

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

The withdrawal of a student is not effective for any date prior to the actual date of withdrawal except in documented cases of serious illness or extreme hardship, and then only upon approval of the student's academic dean.

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

Retroactive Withdrawal

(Drop entire prior semester schedule)

In rare and unusual circumstances, a student may request a retroactive withdrawal for a previous semester by submitting a completed petition. A copy of the petition form can be obtained online at the Retroactive Withdrawal Form Webpage (http://www.provost.msstate.edu/resources/students/forms/forms/Petition_for_retroactive_withdrawal.pdf). The student must also submit all required documentation. The student's academic dean, the dean of the Graduate School, and the Provost must approve the request for retroactive withdrawal.

Audit a Course

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

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

Concurrent (Dual) Degree Matriculation

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

Graduate Student Grievance Policy and Procedure

Discrimination and Harassment

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

Other Complaints

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

Grievance Procedures

Two principles must be followed during the grievance procedure.

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

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

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

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

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

Step 3. If the behavior of the faculty member or administrator continues after the intervention by the department head or supervisor of the administrator, 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 Office of 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 Office of 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 Office of the Provost stating what "prompt remedial action" the dean considers appropriate, including potential disciplinary action. The Office of 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

1. new facts not previously available,
2. the sanction is arbitrarily harsh or capricious, and/or
3. procedures were not followed that substantially affected the result.

The Provost will render a final decision within five working days. This decision completes the University process.

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

1. The University provides counseling services which are a resource for all MSU students when they have experienced stressful or difficult situations. Graduate students may wish to seek counseling services provided by Student Counseling Services (http://www.health.msstate.edu/scs). 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.

Master's Degree Requirements

Academic departments in seven colleges at Mississippi State University offer Master of Arts (M.A.), Master of Science (M.S.), and a number of specialized master's degrees. Refer to Graduate Degrees and Majors Offered (http://catalog.msstate.edu/graduate/degrees-majors-offered) for a complete list. Consult Admissions Information (http://catalog.msstate.edu/graduate/admissions-information) and the specific master's program description for complete and detailed information regarding both admissions and degree completion requirements.

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 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 Committee Participant appointee can serve. Any member of the committee can serve as the thesis director. The Committee Request (http://www.grad.msstate.edu/forms/pdf_forms/comittee_request.pdf) form is submitted to the Office of the Graduate School.

Students in non-thesis programs with no variation in program of study and/or with standardized examinations are not required to have committees.

Committee Changes

When the committee composition changes, the student submits a Change of Committee (http://www.grad.msstate.edu/forms/pdf_forms/request_for_change_of_committee_members.pdf) form to the Graduate School reporting the changes. The form requires the signatures of the new and departing committee member(s), the student, and the graduate coordinator. If, subsequent to the administration of the final or oral/written comprehensive examination, a student's request to remove a member of the graduate committee is not met with the approval (signature) of that member, the student must submit to the dean of the Graduate School a written request containing suitable justification for removal of the committee member. The dean will then decide if removal is necessary and accordingly inform the student, the committee member, the major professor, and the graduate coordinator.

Master's Program of Study

Course Requirements

A minimum of 30 semester hours of graduate study is required in all master's degree programs although some programs require more credits. During the first semester of enrollment, the student must complete with his/her graduate committee a Program of Study (http://www.grad.msstate.edu/forms/pdf_forms/graduate_program_of_study.pdf) form consisting of all courses and research credits required for degree completion according to the Graduate School policy and the program requirements in the *Catalog of the Graduate School* for the academic year the student was admitted. The student and the committee must also jointly identify research skill requirements and/or other requirements for degree completion. The form is submitted to the Graduate School.

- Thesis-option students must include at least 24 hours of graduate coursework and 6 hours of research/thesis. A minimum of 12 coursework credit hours, exclusive of thesis/research credits, must be 8000 level or higher.
- A student may be required to take an ESL, LSK, or undergraduate course. These courses or an audited course cannot be included on a graduate program of study.
- Programs of study for non-thesis students consist of a minimum of 30 hours of coursework, with at least 15 hours at 8000 level or higher.
- A maximum of 6 Directed Individual Study (DIS) credit hours can be included on a program of study. Numbered at the 7000 level, they may be used to meet the 8000-level course requirement.
- Courses taken in previous graduate work that fulfill current degree requirements are not part of the program of study but should be listed on an Attachment Form (http://www.grad.msstate.edu/forms/pdf_forms/grad_prog_of_study_attach_ed.pdf) to record the student's fulfillment of these requirements.

Program of Study Changes

If a program of study submitted to the Graduate School subsequently changes, the student must submit a Change of Program (http://www.grad.msstate.edu/forms/pdf_forms/change_to_graduate_program_of_study.pdf) form approved by his/her committee and graduate coordinator to effect 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. A GPA of 3.00 on the minor coursework is required. A minor in a master's program requires

- at least 9 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.

Up to one-third of the 9 required hours for a master's minor may be transferred to MSU. The credit hours must be academically relevant

and fall within the time-limit requirements for the student's program. See Transfer Credit under Program of Study (http://catalog.msstate.edu/graduate/academic-policies/program-of-study).

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 two potential sources of credit hours are one or both 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**) and those earned in another graduate program at MSU, whether or not used to satisfy the requirements of a previously earned degree (**shared**). Students who transition from an unclassified admission into a degree program may also apply up to 9 hours of unclassified graduate work. Credit hours can be shared between or transferred to degrees of the same or different level. 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). A Transfer Approval form signed by the student's graduate committee must be submitted to the Graduate School with an official transcript, unless the transcript was submitted with the student's admission application. In either case, the form must be processed so that the transfer credits will appear on the MSU transcript.

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. The following policy requirements must be met.

- Master's degree candidates are required to take an oral examination, a written examination, or both.
- A student must be enrolled at MSU during the semester the exam is administered. A student taking a comprehensive examination during the summer semester can be enrolled in any summer term to fulfill this policy.
- The examination date must take place by the deadline found in the Graduate Academic Calendar (http://catalog.msstate.edu/graduate/academic-calendar).
- A student in a thesis-option program may be required to take a comprehensive examination in addition to the thesis defense. These students must check the specific requirements of their program.
- A student must have a 3.00 GPA on all coursework after admission to the program (i.e., program and non-program courses).
- The student must be within the last 6 hours or in the terminal semester of coursework excluding internship/practicum courses.
- The Declaration of Examination/Defense (http://www.grad.msstate.edu/forms/pdf_forms/comprehensive_exam_announcement.pdf) form must be submitted to the Graduate School at least two weeks prior to the scheduled date of examination.
- The candidate's examination should demonstrate:
  a. the candidate's thorough familiarity with the literature in the major field;
  b. the relation of the special subject to allied subjects; and
  c. the level of general knowledge and training, including use of oral and written English.
- One negative vote **will not** constitute failure for a student on a preliminary/comprehensive examination. Two negative votes **will** constitute failure for a student on a preliminary/comprehensive examination.
- Following the examination, the major professor must promptly submit the completed examination results form, whether pass or fail, to the Office of the Graduate School by the deadline. **Submission of the report by the student is prohibited.**
- 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 Theses

Thesis Defense

- A student in a thesis-option master's program must submit a thesis to complete degree requirements. Thesis research is subject to review and approval by the University's Institutional Review Board (IRB).
- The student must be enrolled at MSU in the semester he/she defends the thesis. A student defending during the summer semester can be enrolled in any summer term to fulfill this policy.
- A public presentation of the thesis research and defense before the student's graduate committee is required. The presentation is open to any member of the graduate faculty and the dean and associate dean of the Graduate School. The student or a committee member may request that the Graduate School appoint an outside observer to attend.
- The defense should be scheduled no sooner than seven days after the final manuscript has been distributed to all committee members.
- The defense must take place by the deadline found in the Graduate Academic Calendar (http://catalog.msstate.edu/graduate/academic-calendar) in this publication.
- The Declaration of Examination/Defense (http://www.grad.msstate.edu/forms/pdf_forms/comprehensive_exam_announcement.pdf) form must be submitted to the Graduate School at least two weeks prior to the scheduled examination date.
- The student's graduate committee will evaluate content 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.
- Following the defense, the student's committee must complete the examination results report, whether pass or fail, and submit the original and a copy to the Office of the Graduate School by the deadline. **Submission of the report by the student is prohibited.**

- Six hours of research credit are awarded upon the successful completion of the thesis and its submission to the Library, regardless of the number of thesis/research hours the student successfully completed. A grade of S (satisfactory) or U (unsatisfactory) is awarded for thesis credit. A student cannot graduate with a U grade in the final semester.
- The manual entitled *Standards for Preparing Theses and Dissertations* (http://library.msstate.edu/content/templates/level2-dept-otd/docs/standards_6th_ed.pdf) (6th edition, revised 2012) describes the regulations governing thesis preparation and must be followed. The student should access the *Standards* and review the information found on the Office of Thesis and Dissertation Format Review (http://lib.msstate.edu/thesis) website.
- 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.

Thesis Submission

- The student must meet the Library's initial and final submission requirements and deadlines posted in the Graduate Academic Calendar (http://catalog.msstate.edu/graduate/academic-calendar).
- The student must be enrolled in at least one graduate credit hour at MSU during the semester(s) of both the initial and final submissions to the Library. A student submitting in the summer semester may be enrolled in any summer term to fulfill this policy.
- The student submits the thesis electronically. Submission must be in Portable Document Format (PDF) and uploaded to the Library's electronic theses and dissertations (ETD) database.
- The committee signature page complete with required signatures must be submitted in print to the Library before the thesis will be reviewed. Signatures represent that the signer is satisfied with the contents of the document and that no further changes will be made to the content. Any subsequent content changes will require a newly signed signature page to allow for each member to re-evaluate the document including the new changes. 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 archiving of all theses. Under this agreement, and, if desired, the document will be copyrighted with the copyright in the name of the author. The hard-bound copies will be published in the ProQuest Dissertations and Theses (PQDT) electronic database and the full document made available to subscribing institutions. The author is also free to use any other method available to create physical copies of their approved work. 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.

Master's Time Limit

Eight years is the time limit for completion of master's degree requirements. An Extension of Time (http://www.grad.msstate.edu/forms/pdf_forms/request_for_extension_of_time.pdf) form must be used to request a one-year extension if needed under well-justified, extenuating circumstances. The request must be approved by the major professor and dean of the college and submitted to the Office of the Graduate School. A second request must also be approved by the Office of the Graduate School and the Office of the Provost.

Educational Specialist Degree Completion Requirements

The Educational Specialist degree (Ed.S.) is offered by the College of Education and is comprised of a planned program of at least 30 semester hours above the master's degree under the direction of a major professor.

Ed.S. Graduate Committee

Committee Composition

The student's graduate study is directed by a committee composed of a major professor and at least two committee members, one of whom may be a minor professor. The graduate committee is chaired by the major professor who must hold Level 1 or 2 Graduate Faculty status and be from the student's major department/program. At least one-half of the remaining committee members must be from the student's major/disciplinary field and must hold Level 1, Level 2, Associate, or Committee Participant status. No more than one Committee Participant appointee can serve. Any member of the committee can serve as the thesis director. The Committee Request Form (http://www.grad.msstate.edu/forms/pdf_forms/comittee_request.pdf) is submitted to the Graduate School.

Committee Changes

When the committee composition changes, the student submits the change(s) to the Graduate School on the Committee Change (http://www.grad.msstate.edu/forms/pdf_forms/request_for_change_of_committee_members.pdf) form. The form requires signatures of the new and departing committee members, the student, and the graduate coordinator. If, subsequent to the administration of the final or oral/written comprehensive examination, a student's request to remove a member of the graduate committee is not met with the approval (signature) of that member, then the student must submit to the dean of the Graduate School a written request containing suitable justification for removal of the committee member. The dean will then decide if removal is necessary and accordingly inform the student, the committee member, the major professor, and the graduate coordinator.

Ed.S. Program of Study

A minimum of 30 credit hours is required on the program of study. A maximum of 6 credit hours of graduate credit may be earned in DIS courses. A student may be required to take an ESL, LSK, or undergraduate course; however, these courses or an audited course are not permitted on a graduate program of study. Courses taken in previous graduate work that fulfill current degree requirements are not part of the program of study but are listed on the Attachment Sheet (http://www.grad.msstate.edu/forms/pdf_forms/grad_prog_of_study_attach_ed.pdf) to show the student has fulfilled those course requirements.

Program of Study Changes

If a program of study must be changed, the student must submit a committee-approved Change of Program Form (http://www.grad.msstate.edu/forms/pdf_forms/

change_to_graduate_program_of_study.pdf) to effect additions and/or deletions.

Minor

A student is required to complete the minimum number of hours required on the program 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. A GPA of 3.00 on the minor coursework is required. 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. 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. See Transfer Credit below.

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 two potential sources of credit hours are one or both 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**) and those earned in another graduate program at MSU, whether or not used to satisfy the requirements of a previously earned degree (**shared**). Students who transition from an unclassified admission into a degree program may also apply up to 9 hours of unclassified graduate work. Credit hours can be shared between or transferred to degrees of the same or different level. 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. Thesis hours cannot be transferred. 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. A Transfer Approval (http://www.grad.msstate.edu/forms/pdf_forms/transfer_approval_form.pdf) form signed by the student's graduate committee must be submitted to the Graduate School with an official transcript, if the transcript was not submitted with the student's admission application.

Directed Individual Study or Thesis

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

Ed.S. Comprehensive Examination

- An Ed.S. student in the non-thesis option must pass a comprehensive examination to fulfill degree completion requirements during the terminal semester or when within 6 hours of completing the program of study, excluding practica and internships.
- 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 must take place by the deadline found in the Graduate Academic Calendar (http://catalog.msstate.edu/graduate/academic-calendar).
- The student must have a 3.00 GPA on all courses taken after admission to the program (i.e., program and non-program courses).
- The Declaration of Examination/Defense (http://www.grad.msstate.edu/forms/pdf_forms/comprehensive_exam_announcement.pdf) form must be submitted to the Graduate School at least two weeks prior to the scheduled date of examination.
- The candidate's examination should demonstrate
- the candidate's thorough familiarity with the literature in the major field;
- the relation of the special subject to allied subjects; and
- the level of general knowledge and training, including use of oral and written English.
- One negative vote **will not** constitute failure of a preliminary/comprehensive examination. Two negative votes **will** constitute failure of a preliminary/comprehensive examination.
- 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 being dropped as an educational specialist degree candidate.
- Following the examination, whether pass or fail, the student's committee must complete the examination results report and submit both the original and a copy to the Office of the Graduate School by the deadline. **Submission of the report by the student is prohibited.**

Ed.S. Theses

Thesis Defense

- A student in the thesis-option program must submit a thesis to complete degree requirements. Thesis research is subject to review and approval by the University's Institutional Review Board (IRB).
- The student must be enrolled at MSU during the semester when the thesis is defended. A student defending during the summer semester can be enrolled in any summer term to fulfill this policy.
- A public presentation of the thesis research and oral defense before the student's graduate committee is required. The presentation is open to any member of the graduate faculty and the dean and associate dean of the Graduate School. The student or a committee member may request that the Graduate School appoint an outside observer to attend.
- The defense should be scheduled no sooner than seven days after the final manuscript has been distributed to all committee members. The defense must take place by the deadline found in the Graduate Academic Calendar.

- The Declaration of Examination/Defense (http://www.grad.msstate.edu/forms/pdf_forms/comprehensive_exam_announcement.pdf.html) form must be submitted to the Graduate School at least two weeks prior to the scheduled date of examination.
- The student's graduate committee will evaluate content of the completed thesis. 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.
- Following the defense, the student's committee must complete the examination results report, whether pass or fail, and submit both original and a copy to the OGS by the deadline. **Submission of the report by the student is prohibited.**
- 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 removal as an educational specialist degree candidate.
- Six hours of research credit 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* (http://library.msstate.edu/content/templates/level2-dept-otd/docs/standards_6th_ed.pdf) (6th edition, revised 2012) describes the regulations governing thesis preparation and must be followed. The student should access the *Standards* and review the information on the Office of Thesis and Dissertation Format Review (http://library.msstate.edu/thesis) website.

Thesis Submission

- The student must meet the Library's initial and final submission requirements and deadlines posted in the Graduate Academic Calendar (http://catalog.msstate.edu/graduate/academic-calendar).
- The student must be enrolled for at least one graduate credit at MSU during the semester(s) of both submissions to the Library.
- The student submits the thesis electronically. Submission must be in Portable Document Format (PDF) and uploaded to the Library's electronic theses and dissertations (ETD) database.
- The committee signature page complete with required signatures must be submitted in print to the Library before the thesis will be reviewed. Signatures represent that the signer is satisfied with the contents of the document and that no further changes will be made to the content. Any subsequent content changes will require a newly signed signature page to allow for each member to re-evaluate the document including the new changes. 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 archiving of all theses. Under this agreement, if desired, the document will be copyrighted with the copyright in the name of the author. The hard-bound copies will be published in the ProQuest Dissertations and Theses (PQDT electronic database and the full document made available to subscribing institutions. The author is also free to use any other method available to create physical copies of their approved work. 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.

Ed.S. Time Limit

A student must complete the educational specialist program within eight years. All courses included on the program of study must be current at the time of completion of the degree. A Request for an Extension of Time (http://www.grad.msstate.edu/forms/pdf_forms/request_for_extension_of_time.pdf) form must be used to request a one-year extension if needed under well-justified, extenuating circumstances. The approved request must be submitted to the Office of the Graduate School. A second request must also be approved by the dean of the Graduate School and the Office of the Provost.

Residency Requirement

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

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

Doctor of Philosophy Degree Requirements

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

Ph.D. Graduate Committee

Committee Composition

- The student's graduate program is directed by a 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 Level 2 Graduate Faculty member may serve as co-chair.
- A student without a minor must have a committee 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, at least three members from the major field, and one minor member.
- Each committee member must hold a Level 1, Level 2, Associate, or Committee Participant appointment. At least one-half of all committee members must be from the student's major/disciplinary field. No

more than two Committee Participant appointees can serve on a dissertation or doctoral committee. The major professor is generally the dissertation director, but any member of the committee can serve as the dissertation director.
- The Committee Request (http://www.grad.msstate.edu/forms/pdf_forms/graduate_program_of_study.pdf) form is submitted to the Office of the Graduate School with the program of study when the preliminary/comprehensive examination is scheduled.

Committee Changes

When the composition of a student's graduate committee changes, the student submits the change(s) on the Request for Change of Committee form (http://www.grad.msstate.edu/forms/pdf_forms/request_for_change_of_committee_members.pdf). The form should be signed by 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 committee member 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 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

Program Requirements

Completion of a Ph.D. requires substantial academic work in the field or program of interest beyond the bachelor's level and includes both formal coursework and research (dissertation credit hours). Mississippi State University requires that doctoral students earn at least 54 hours of graduate credit beyond the bachelor's level, which includes a required 20 hours of dissertation credits. Of the 54 hours, at least 24 must be from GPA-graded graduate coursework with a minimum of 12 credit hours at the 8000 level or higher (excluding dissertation research credit), and at least 20 must be dissertation research credits. The remaining 10 hours can be earned with coursework credits, dissertation/research credits, or a combination of both. Individual programs may require additional hours, including dissertation credit hours, as well as permit previous graduate degree coursework in the field to contribute to that total. Program of study courses must be approved by the student's committee. A student may be required to take an ESL, LSK, or undergraduate course, but these courses or audited courses cannot be included on a program.

Courses taken in previous graduate work that fulfill current degree requirements but are not part of the program must be listed on the attachment sheet (http://www.grad.msstate.edu/forms/pdf_forms/grad_prog_of_study_attach_doc.pdf) to record the student's fulfillment of those requirements. All courses listed on the program of study must appear on the student's Mississippi State University transcript.

The program of study form must be submitted to the OGS with the declaration of examination form (http://www.grad.msstate.edu/forms/pdf_forms/comprehensive_exam_announcement.pdf) when the preliminary/comprehensive exam is scheduled.

Program of Study Changes

If a program of study submitted to the Graduate School subsequently changes, the student submits a change of program form (http://www.grad.msstate.edu/forms/pdf_forms/change_to_graduate_program_of_study.pdf) to effect additions and deletions.

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 GPA of 3.00 on the minor coursework is required. 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.

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. See Transfer Credit below.

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 two potential sources of credit hours are one or both 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**) and those earned in another graduate program at MSU, whether or not used to satisfy the requirements of a previously earned degree (**shared**). Students who transition from an unclassified admission into a degree program may also apply up to 9 hours of unclassified graduate work. Credit hours can be shared between or transferred to degrees of the same or different level. 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 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.

Ph.D. Examinations

Qualifying Examination

Some departments require doctoral students to take a qualifying examination. A student must be enrolled at MSU during the semester the exam is administered. A student taking the examination during the

summer semester can be enrolled in any summer term to fulfill this policy. The student must have a 3.00 GPA after admission to the degree program (i.e., program and non-program courses).

Doctoral students in the College of Education are required to successfully demonstrate competency in the application of research and statistical techniques and must refer to the *College of Education Doctoral Student Handbook*.

Preliminary/Comprehensive Examination

- A Ph.D. student takes the preliminary/comprehensive examination in the terminal semester of coursework or when within 6 hours of coursework completion excluding any internship/practica courses.
- The student must have a minimum 3.00 GPA on all courses attempted for graduate credit after admission to the degree program (i.e., program and non-program courses).
- When the examination is scheduled, the student's program of study and committee request form are submitted to the Graduate School with the Declaration of Examination/ Defense (http://www.grad.msstate.edu/forms/pdf_forms/ comprehensive_exam_announcement.pdf) form at least two weeks prior to the scheduled date of examination.
- The doctoral student must take the preliminary/comprehensive examination by the appropriate deadline.

  June 1 for December graduation

  November 1 for May graduation

  February 1 for August graduation

- The student must be enrolled at MSU when taking the preliminary/ comprehensive examination(s). A student taking the examination during the summer semester can be enrolled in any summer term to fulfill this policy.
- The student's graduate committee serves as the examining committee. The student or a committee member may request that the Graduate School appoint an outside observer to attend the comprehensive/ preliminary examination.
- One negative vote **will not** constitute failure for a student on a preliminary/comprehensive examination. Two negative votes **will** constitute failure for a student on a preliminary/comprehensive examination.
- Following the examination, the student's committee must promptly complete the examination results report form, whether pass or fail, and submit the original and a copy to the OGS by the deadline. **Submission of the report by the student is prohibited.**
- 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.

Ph.D. Admission to Candidacy

A doctoral student is admitted to candidacy when she/he has

1. satisfactorily completed all required coursework, and the final program of study is approved;
2. completed required research skills or other requirement(s) prior to taking the preliminary/comprehensive examination;
3. passed the preliminary/comprehensive examination; and
4. received formal approval of a dissertation topic by the graduate committee.

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

Ph.D. Dissertations

Dissertation Preparation

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

The student must register for at least the minimum number of required dissertation/research hours. The University requirement is 20 credit hours although some programs have been approved to require more. These hours may optionally, at the discretion of the student's doctoral committee, be divided between XXX 9000 (Dissertation/Research) hours and XXX 9913 Dissertation Seminar, a course designed to assist students in starting and/or completing their dissertation. Students can take this course only if their department/program offers the Dissertation Seminar. Credit for the required number of hours of dissertation/research is awarded the student upon the successful submission of the final dissertation, regardless of the actual number of hours successfully completed.

The dissertation must show

1. mastery of the techniques of research and
2. a distinct contribution to the field under investigation and study.

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

Dissertation Defense

A public presentation of the dissertation research and defense before the student's graduate committee is required. The defense is open to any member of the Graduate Faculty and the dean and associate dean of the Graduate School. The following requirements must be met.

- The defense must occur by the deadline posted on the Graduate Academic Calendar.
- To allow time for careful and thoughtful evaluation and discussion, the examination for the oral dissertation defense should be scheduled no sooner than seven days after the final manuscript has been distributed to all committee members.
- The Declaration of Examination/Defense form (http://www.grad.msstate.edu/forms/pdf_forms/ comprehensive_exam_announcement.pdf) must be submitted to the Graduate School at least two weeks prior to the scheduled date of examination.
- The student or committee may request that the OGS appoint an outside observer to attend the dissertation defense.

- The student's graduate committee will evaluate content 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.
- A grade of S for satisfactory or U for unsatisfactory is given for dissertation credit. A student cannot graduate with a U grade in the final semester.
- A student who fails to defend his/her dissertation successfully can apply to schedule another defense after a period of four months has elapsed from the date of the original. Two failures to defend the dissertation will result in the student's removal from candidacy.
- Following the defense, the student's committee must complete the examination results report and submit both the original and a copy to the OGS by the deadline. **Submission of the report by the student is prohibited.**

Dissertation Submission

Following the successful defense, the student electronically submits the dissertation to the Library and must meet the initial and final submission requirements and deadlines. The student must be enrolled at MSU for at least one graduate credit hour 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. Signatures represent that the signer is satisfied with the contents of the document and that no further changes will be made to content. Any subsequent content changes will require a newly signed signature page to allow for each member to re-evaluate the document including the new changes. 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, and if desired, the dissertation will be copyrighted with the copyright in the name of the author. The hard-bound copies will be made available for purchase through ProQuest. The author is also free to use any other method available to create physical copies of their approved work. The citation and abstract will be published in the ProQuest Dissertations and Theses (PQDT) electronic database and the full document made available to subscribing institutions. There is no longer a fee for publishing dissertations. The fee for copyrighting is $55.00; one may also ask ProQuest to publish the document with open access for $95.00. As an alternative to copyrighting through ProQuest, copyright can be obtained by submitting to http://www.copyright.gov for a $35 fee.

Ph.D. Time Limit

A Ph.D. student must complete the degree program within five years after passing the preliminary/comprehensive examination. A student may submit a request for a one-year extension of time, using the Request for an Extension of Time form (http://www.grad.msstate.edu/forms/pdf_forms/request_for_extension_of_time.pdf) if needed under well-justified, extenuating circumstances. The request must be signed by the major professor and the dean of the college and submitted to the Office of the Graduate School. A second request must also be approved by the dean of the Graduate School and the Office of the Provost.

Ph.D. Additional Requirements

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.

Admissions Information

Disclaimer

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

Admission Procedure

A prospective applicant who has researched admissions requirements of the Graduate School at Mississippi State University and requirements of the academic program of interest can access information and apply online at http://www.grad.msstate.edu/. An applicant who is unable to apply online should contact the Office of the Graduate School at grad@gradapps.msstate.edu (gradapps@grad.msstate.edu).

The academic year comprises two regular semesters, beginning in August and January, and a four-term summer session beginning in May. For specific dates, see the Graduate Academic Calendar (http://catalog.msstate.edu/graduate/academic-calendar). An individual who submits an admission application should act promptly and ensure that the application has been completed by the deadlines. An individual must be admitted to a degree program or as an unclassified graduate student to register for graduate courses.

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

- An individual admitted to a graduate degree program who wants to pursue a subsequent second graduate degree;
- An individual enrolled in a graduate degree program who decides to change to a different program;
- An individual who was admitted to a program but did not enroll within one academic year of the semester of admission;
- An individual pursuing a graduate degree and wishes to pursue a second degree concurrently;
- A student who has graduated with a degree and wishes to take another course(s).

Degree Level Change

A student admitted to a degree program may subsequently want to change degree levels (e.g., from Ph.D. to M.S.) in the same program. This student should submit to the Graduate School a Request for Change of Degree Level or Concentration (http://www.grad.msstate.edu/forms/pdf_forms/request_to_change_degree_level_or_concentration.pdf) form, including all required signatures. No other document is required. **Once admitted, a degree-level change cannot occur within the current semester; this change can be made effective only for the following semester.**

Concentration Change

A student admitted to a major with two or more concentrations may change concentrations within the same department or the same umbrella major by submitting to the Graduate School an approved Request for Change of Degree Level or Concentration form. No other document is required. **Once admitted, a concentration change cannot occur within the current semester; this change can be made effective only for the following semester.**

Graduate students may pursue a maximum of two concentrations within one degree/major program at the same time. Requirements for both concentrations must be fulfilled prior to graduation. Once a student graduates, a second degree in the same program with a different concentration cannot be earned. The student must submit the Request to Change Degree Level, Concentration or Add Secondary Concentration form, including all approval signatures. No other documents are required. **A secondary concentration addition cannot occur within the current semester; this addition can be processed only for the following semester.**

Campus Change

Students are admitted to the Starkville Campus, the Meridian Campus, or via the Center for Distance Learning. An admitted student who wishes to change to another campus where the program is also offered must submit the Graduate Request to Change Campus (http://www.grad.msstate.edu/forms/pdf_forms/request_to_change_degree_level_or_concentration.pdf) form to the Graduate School. The form must be signed by the student and approved by both the current graduate coordinator, the graduate coordinator of the new campus, and the Provost's Office. If the student is Unclassified, the Dean of the Graduate School will approved for both campuses. **Once admitted, a campus change cannot occur within the current semester; this change can be made effective only for the following semester.**

Recommendation Letters

New recommendations are required from students in the following situations.

- applying to a different major
- applying to a different degree level
- applying to a second concurrent degree (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 recommendations from the student’s file may be used for students in the following situations.

- 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 Office of the Graduate School waive the requirement for new recommendation if the applicant is applying within the same department at the same level or a lower level.

Admission Status Categories

Regular Admission

Any person granted regular admission for graduate study must hold a bachelor's degree from a regionally accredited institution. However, an applicant with a bachelor's degree from a non-accredited institution 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 the bachelor's degree, an applicant who receives regular admission status must satisfy one of the following graduate admissions requirements based on the level of work completed at the time of the application:

1. 2.75 GPA on the last two years (approximately 60-70 semester hours or 90-100 quarter hours) of bachelor's degree coursework
2. 2.75 GPA on 30 or more semester hours of undergraduate credit **after** earning a bachelor's degree
3. 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
4. 3.00 GPA on **24 or more** graduate hours
5. An earned master's degree or higher-level degree.

An applicant not satisfying the minimum grade point average for his/her level of work may be admitted to a degree program as a provisional student if recommended by the program's graduate coordinator. The minimum acceptable undergraduate grade point average for admission as a provisional student is 2.50. (See Provisional Admission.)

Meeting minimum requirements for admission does not guarantee admission into a program. Each applicant competes with all other applicants for availability in each 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 have requirements for regular admission in addition to the University requirements described above. For this information, see the specific program section in this publication.

Provisional Admission

A student who has not fully met the GPA or other admission requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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.**

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, is in the final semester of bachelor's degree work, and is admitted contingent on degree completion. When the Office of the Graduate School receives the final transcript verifying the degree was awarded, the admission contingency is removed.

An applicant may also be admitted with one or more departmental contingencies, requirements the department expects the student to fulfill by a certain deadline. Departmental admissions contingencies are monitored by the department and typically are prerequisite courses, standardized tests, or another similar requirement. When this contingency information is included in the program's admission decision, the Graduate School verifies during the degree audit that the requirements were fulfilled.

Conditional Admission Policy

For International Applicants Who Do Not Meet English Language Test Score Requirements

A prospective international applicant who meets all requirements but has no 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 and attains full admission to the graduate program. Students accepted under this conditional admission policy would have been admitted by a department by virtue of meeting all other requirements for admission. These students are initially allowed to take only 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 ESL requirements. **Conditionally-admitted students can be admitted only for a Fall semester to ensure completion of the required ESL within one academic year.**

Unclassified Admission

A non-degree-seeking applicant wishing to take graduate-level courses may be admitted as an unclassified graduate student. This process requires the unclassified graduate application, an official transcript verifying the applicant's bachelor's degree, and a $60.00 application fee. **Once admitted unclassified, the student may not apply for a graduate degree program for the same semester.** Up to 9 hours of graduate work earned while unclassified may be transferred to a degree program with the approval of the graduate program. Hours completed in unclassified status may not be used to satisfy provisional admission requirements if the student is later admitted to a degree program.

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

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

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

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

Application and registration requirements include:

1. The applicant submits electronically an Unclassified Graduate Application, an official transcript showing proof of an earned baccalaureate degree from an accredited institution, and a $60.00 non-refundable application fee to the Office of the Graduate School; site link is http://www.grad.msstate.edu/. When asked to choose a program, the unclassified applicant must select No Degree/ Unclassified Grad. **An international applicant in the local area must obtain approval of the Dean of the Graduate School before admission. Proof of identification is required. Distance Education 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.
3. An unclassified student must receive permission from the academic department of interest. The graduate coordinator or course instructor (or approved designate) signs the Unclassified Graduate Student Registration Approval Form (http://www.grad.msstate.edu/forms/pdf_forms/unclassified_graduate_worksheet.pdf) , and a department representative enters a major override for each approved course. Only the department offering the course may approve.
4. The student submits the form to the Office of the Graduate School to obtain a Registration Access Code (RAC).
5. The student uses the RAC to register online.

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. If the student takes classes from another university or college during the deferment period, an official transcript must be submitted.

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. The student must submit a $60.00 non-refundable application fee with the readmission application.[1] If the student has attended another college or university during the absence, the student must submit an official transcript from that institution. Readmission to a program requires departmental recommendation 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** requires that a student who has not been enrolled for one regular semester (fall or spring) must submit a readmission application and statement of purpose to be approved by the graduate coordinator. 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. Letters from the original application will also be reviewed.
- **Department of Leadership and Foundations** requires that a student who has not been enrolled for one regular semester (fall or spring) must submit a readmission application and statement of purpose to be recommended by the graduate coordinator. 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. Letters from the original application will also be reviewed.
- **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.

1 ***The readmission process does not negate the continuous enrollment requirement.*** Refer to the Continuous Enrollment section under General Requirements of the Graduate School.

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.

Senior Citizen

Legal residents of the State of Mississippi age 60 or older may enroll tuition-free in a maximum of 6 hours per semester (fall, spring, or combined summer term) with a maximum of 18 credit hours per calendar year. Course registration is available to senior citizens on a space-available, first-come, first-serve basis. Enrollment in courses offered for the Doctor of Veterinary Medicine degree is not permitted. The application fee of $60.00 is required with the graduate application.

Obtaining a RAC following Non-Registration Semester(s)

An admitted student who began a graduate program but later did not enroll for a fall or spring semester will not automatically have a Registration Access Code (RAC). The student's major professor must contact the Office of the Graduate School by email to request a RAC for the student. A student who has not enrolled must know and follow Readmission requirements, being aware that some programs have more stringent readmission policies than the Graduate School.

Undergraduate Enrollment in Graduate Courses

An undergraduate student at Mississippi State University or any university with which Mississippi State University has agreements, 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.

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.

Alcorn State Workforce Education Leadership Registration at MSU

An Alcorn State University (ASU) graduate student enrolled in the Workforce Education Leadership (WEL) master's degree program is permitted to enroll in MSU WEL program course(s) offered for graduate credit. In order to register, the Alcorn student must submit the completed Transient Request to Enroll in Graduate Course(s) Workforce Education Leadership--Alcorn State University (http://www.grad.msstate.edu/forms/pdf_forms/Alcorn_Workforce_Education_Leadership_Transient_Request.pdf) form approved with required Alcorn signatures to the Office of the Graduate School. When the request is approved by MSU, the student will apply online to the Graduate School as an unclassified graduate student. Official transcripts (bachelor's degree and current ASU graduate transcript) and a Letter of Good Standing are required. The application fee is waived. A maximum of 9 graduate credit hours of enrollment is allowed. Any exception to the stated criteria must be approved by the Provost.

Admission Requirements

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 submit 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. Requirements Quick Reference (http://catalog.msstate.edu/graduate/admissions-information/requirements-quick-reference) provides a snapshot of degree programs and corresponding GPA and standardized test requirements. All admission applications and supporting documents become the property of Mississippi State University upon receipt and will not be released. Admission to MSU for graduate study is open to qualified students regardless of race, creed, color, natural origin, handicap, sex, or veteran status.

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 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 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 a different program 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. Application is usually made to only one graduate program at a time. Admission to more than one degree program requires the approval of the graduate coordinator of each degree program. (See Concurrent [dual] Degrees in this publication.) The decision to admit is valid for one academic year (with departmental approval) for use in making initial enrollment to a given program. After the lapse of one fall or spring semester without enrollment, an admitted applicant must contact the Office of the Graduate School in writing by email (grad@gradapps.msstate.edu) to change the enrollment term. After the lapse of both a fall and spring semester without enrollment, the applicant must submit a new application, statement of purpose, letters of recommendation, and application fee.

The graduate coordinator of a department/program recommends to the Graduate School that an applicant be admitted or rejected, the Dean of the Graduate School makes the final admission decision. The Office of the Graduate School sends a letter to the applicant communicating the decision. Only a written notice of admission from the Graduate School to the applicant is valid proof of admission.

Application Fee

A non-refundable $60.00 application fee is required with each submitted application. The application fee must be paid in order to submit the application to the Graduate School. Application fees are not refunded if an applicant pays the fee and does not submit the application, 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. An additional application fee is required for a new application to another program or for application 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.

Applicat Semest	Deadline for: International Applicants applying for Degree Programs or Unclassified Admission on Starkville and Meridian Campuses	Deadline for: Domestic Applicants applying for Degree Programs on Starkville and Meridian Campuses	Deadline for: Domestic and International Applicants applying for Distance Degree Programs	All Applicants applying Unclassified: International-Distance Unclassified Only; Domestic: Unclassified on All Campuses.
Fall	May 1	July 1	August 1	August 16
Spring	October 1	November 1	December 1	January 10
Summer	March 1	May 1	May 15	TBA

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. All deadlines are at 12:00 PM (midnight CST) unless otherwise stated. All dates and deadlines are subject to change. Please note that the application must be submitted with the $60 application fee on or before the deadline.

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.

Transcripts for Admission

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

Domestic Students

Applications

Prospective graduate students apply electronically at http://www.grad.msstate.edu. The application process cannot be completed until the application fee has been paid. The statement of purpose, recommendation letters, and required test scores are also submitted electronically, as is a résumé, if one is required by the academic department. The applicant will submit the names and email addresses of three people who have agreed to recommend the applicant to graduate study; these individuals will subsequently receive an email request from the Graduate School. Their timely response is critical to the application process.

An applicant must request an official transcript from the bachelor's degree institution and from each college or university attended following the bachelor's degree. If fewer than 60-70 hours were completed at the institution which awarded the bachelor's degree, an official transcript from the previous institution(s) is required as well. The department may require previous transcripts to verify prerequisites. The official transcript must be in a sealed envelope bearing the institution's return address with the Registrar's signature or stamp across the flap. The Graduate School will accept electronic transcripts directly from Escrip. Electronic transcripts sent by Escrip should be sent to Mississippi State University, Graduate School.

Domestic Application Checklist

- Application
- $60.00 (non-refundable) application fee (not required of full-time benefits-eligible MSU employees)
- Statement of Purpose
- Names and email addresses of three academic references
- GRE or GMAT scores if required by academic department
- Official transcript showing bachelor's degree or progress toward degree
- Official transcript(s) showing all work after bachelor's degree

Completed applications received on or prior to the deadline dates above will receive consideration for the desired academic term. **Some programs may have earlier application deadlines that override the Graduate School deadlines; they are found in the description of the specific program.** It is the applicant's responsibility to ensure that all supporting materials are received. The Office of the Graduate School requires applicants to use the online application process. All required materials not submitted electronically must be mailed to:

Mississippi State University
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.

International Students

Applications

Prospective graduate students apply electronically at http://www.grad.msstate.edu. Applications are not processed until the application fee has been paid. The statement of purpose, letters of

recommendation, and required test scores are submitted electronically. If the academic department requires a résumé, it is also submitted electronically. To fulfill the recommendation requirement, the applicant will submit the names and email addresses of three people who have agreed to submit a recommendation and these individuals will receive an email request from the Graduate School. Their timely response is critical to the student's application process.

An applicant must request an official transcript from the bachelor's degree institution and from each college or university attended following the bachelor's degree. If fewer than 60-70 hours were completed at the institution which awarded the bachelor's degree, an official transcript from the previous institution(s) is required as well. The department may require previous transcripts to verify prerequisites. The official transcript must be in a sealed envelope bearing the institution's return address with the Registrar's signature or stamp across the flap. The Graduate School will accept electronic transcripts directly from Escrip. Electronic transcripts sent by Escrip should be sent to Mississippi State University, Graduate School.

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 on or prior to the deadline dates above will receive consideration for the desired academic term. **Some programs may have earlier application deadlines that override the Graduate School deadlines; they are found in the description of the specific program.** It is the applicant's responsibility to ensure that all supporting materials are received. The Office of the Graduate School requires applicants to use the online application process. All required materials not submitted electronically must be mailed to:

Mississippi State University
Office of the Graduate School
Box G
Mississippi State, MS 39762

International Application Checklist

- Application
- $60.00 non-refundable application fee
- Statement of Purpose
- Names and email addresses of three academic references
- GRE or GMAT scores if required by academic department
- 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 applying for a distance program)
- Bank Letter or other Document of Financial Support (not required if applying for a distance program)
- 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.

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**, or 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, the student's academic department may require the student to schedule one or more ESL (English as a Second Language) courses.

An international student whose primary language is not English, as described above, must submit **either** a TOEFL (Test of English as a Foreign Language) score or an IELTS (International English Language Testing Systems) score. A total of two TOEFL or IELTS scores will be accepted per application, and **both must be submitted prior to course registration in a graduate program at Mississippi State University**. If two test scores are submitted, the higher score will be the valid score to determine if the student qualifies for regular admission or must complete ESL courses to gain full admission.

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 53 iBT (Internet-Based Test) is required for admission to Mississippi State University. The required IELTS score is 4.5. The following degree programs require higher test scores than the University requirement:

- The **College of Veterinary Medicine** requires a minimum TOEFL score of 500 PBT or 61 iBT or an IELTS score of 5.5.
- The **College of Education** requires a minimum TOEFL score of 550 PBT 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 84 iBT or an IELTS score of 7.0.

The applicant must check the requirements of the specific department.

The following requirements 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.

- An applicant who attains a national TOEFL (Test of English as a Foreign Language) score of 550 PBT or 79 iBT or an IELTS (International English Language Testing System) score of 6.5 is considered **proficient in English.** If the academic department requires a higher test score, the applicant must attain the higher score or be admitted contingent on satisfying this University

requirement. **The applicant can be considered for admission for Spring, Summer or Fall terms.**

- An applicant with either a TOEFL score **between** 547-523 PBT 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 for international graduate students whose test score indicates a need for assistance in English writing, research, and editing skills. The course is graded on a Satisfactory/Unsatisfactory basis. The student required to take ESL 5323 can also enroll in up to 6 credit hours in his/her graduate program. **The applicant can be considered for admission for Spring, Summer or Fall terms.**

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.

- An applicant with either a TOEFL score **between** 520-500 PBT or 68-61 iBT or an IELTS score of 5.5 is required to enroll in **ESL 5120**, a 9-hour intensive English course designed by the English as a Second Language Center. This course is graded on a Satisfactory/Unsatisfactory basis. The student cannot register for courses in his/her graduate program while completing this required course. A student enrolled in ESL 5120 will complete the course when he/she passes 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.
- A qualified student with either a TOEFL score between 497-477 PBT or 59-53 iBT or an IELTS score of 5-4.5 is required to enroll in ESL 5110 , an intensive English language course especially designed by the English as a Second Language Center. This course is graded on a Satisfactory/Unsatisfactory basis. The student cannot register for courses in his/her graduate program while completing this requirements. A student enrolled in ESL 5110 will complete the course when he/she passes the English Proficiency Exam consisting of grammar, reading, writing, oral, and aural skills, has attended the English immersion class regularly for at least one semester, and has done satisfactory work. Such student must then complete ESL 5120 (a 9-hour immersion course) and, subsequently, ESL 5323. **The applicant can be considered for admission for Fall term only.**

III. An applicant whose TOEFL score is below 477 PBT or 53 iBT or whose IELTS score is 4.5 is not eligible for admission to the Graduate School.

This individual can enroll in the ESL Center on a non-credit basis after which he/she can retake the English-language test in preparation for another application to graduate study at MSU.

The Dean of the Graduate School will monitor the students' progress and certify each graduate student as he or she fulfills the English proficiency requirements. A hold is placed on the student's record and is released when the required ESL coursework is completed. Until release of the hold, the student must meet with his/her advisor to establish a semester schedule of courses. This schedule must immediately be submitted to the Office of the Graduate School by the student or major professor using the TOEFL-Hold Registration Form found at http://www.grad.msstate.edu/forms/pdf_forms/TOEFL.pdf. The OGS will ensure that the student is registered for all classes. Once the hold is released, the student can self-register for classes.

English-Language Test Scores and Requirements

Score	Requirement
550 PBT or 79 iBT (TOEFL) or 6.5 (IELTS)[1]	Eligible for regular admission; no ESL course required. Assistantship can be awarded.
547-523 PBT or 78-69 iBT (TOEFL) or 6 (IELTS)[2]	Eligible for admission; ESL 5323 required. Assistantship can be awarded.
520-500 PBT or 68-61 iBT (TOEFL) or 5.5 (IELTS)[3]	Eligible for admission; ESL 5120 and ESL 5323 required. Assistantship cannot be awarded.
497-477 PBT or 59-53 iBT (TOEFL) or 5-4.5 (IELTS)[4]	Eligible for admission; ESL 5110, ESL 5120, and ESL 5323 required. Assistantship cannot be awarded.
ESL 5110 Below 477 PBT or 53 iBT (TOEFL) or 4.5 (IELTS)[5]	Ineligible for admission.

1 Eligible for Regular Admission for Spring, Summer, or Fall terms.

2 Eligible for Admission with TOEFL/IELTS Hold. May be considered for Spring, Summer, or Fall terms.

3 Eligible for Admission with a TOEFL/IELTS hold. May be considered for Spring or Fall terms only.

4 Eligible for Admission with TOEFL/IELTS hold. May be considered for Fall term only.

5 Ineligible for admission.

International Transfer Students' Test Score Requirements

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 53 iBT on the TOEFL or 4.5 on the IELTS.

Conditional Admission Policy for International Applicants Who Do Not Meet English Language Test Score Requirements

A prospective international applicant who meets all requirements but has no 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 and attains full admission to the graduate program. Students accepted under this conditional admission policy would have been admitted by a department by meeting all other requirements for admission. These students are initially allowed to take only 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 ESL requirements. **Conditionally-admitted students can be admitted only for a Fall semester to ensure completion of the required ESL within one academic year.**

English as a Second Language (ESL) Center

The ESL Center, part of the International Institute, is responsible for the administration of the English language courses. The courses offered by the ESL Center are taught by faculty members of Mississippi State University. International applicants who complete all levels at the MSU ESL Center may submit a certificate of completion with their Graduate School application in place of English language test scores.

Fees, Expenses, and Financial Aid

This portion of the Graduate Catalog provides detailed information about graduate tuition, fees, account information, payment due dates, forms of payment, unpaid balances, overdue accounts, refunds, financial aid, and tuition exemptions for senior citizens, university employees,and university alumni.

Tuition and Required Fees (T&RF)

With the exception of the College of Veterinary Medicine and Meridian campuses, 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.

RESIDENT STUDENTS

Part-time enrollment: 1-8 hours	Summer Semester 2015	Fall Semester 2015	Spring Semester 2016
Tuition & Required Fees (Per Credit Hour)	$391.50	$410.75	$410.75
Capital Improvement Fee (Per Credit Hour)	5.56	5.56	5.56
Student Activities Fee (Per Credit Hour)	$0.00	$.56	$.56
TOTAL - Part-time, Graduate, Resident Student, Tuition & Fees (Per Credit Hour)	$397.06 [1]	$416.87	$416.76

Full-time enrollment: 9 or more hours	Summer Semester 2015	Fall Semester 2015	Spring Semester 2016
Tuition & Required Fees (Per Term)	N/A	$3,696.00	$3,696.00
Capital Improvement Fee (Per Term)	N/A	$50.00	$50.00
Student Activities Fee (Per Term)	N/A	$5.00	$5.00
TOTAL - Full-time, Graduate, Resident Student, Tuition & Fees (Per Term)	N/A [1]	$3,751.00	$3,751.00

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

NON-RESIDENT STUDENTS

Part-time enrollment: 1-8 hours	Summer Semester 2015	Fall Semester 2015	Spring Semester 2016
Tuition & Required Fees (Per Credit Hour) [2]	$391.50	$410.75	$410.75
Non-Resident Fee (Per Credit Hour) [2]	$630.00	$702.25	$702.25
Capital Improvement Fee (Per Credit Hour)	$5.56	$5.56	$5.56
Student Activities Fee	$0.00	$.56	$.56
TOTAL - Part-time, Graduate, Non-Resident Student, Tuition & Fees (Per Credit Hour)	$1,027.06 [1]	$1,119.12	$1,119.12

Full-time enrollment: 9 or more hours	Summer Semester 2015	Fall Semester 2015	Spring Semester 2016
Tuition & Required Fees (Per Term) [2]	N/A	$3,696.00	$3,696.00
Non-Resident Fee (Per Term) [2]	N/A	$6,320.00	$6,320.00
Capital Improvement Fee (Per Term)	N/A	$50.00	$50.00
Student Activities Fee (Per Term)	N/A	$5.00	$5.00
TOTAL - Full-time, Graduate, Non-Resident Student Tuition & Fees (Per Term)	N/A	$10,071.00	$10,071.00

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

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

DISTANCE EDUCATION

RESIDENT AND NON-RESIDENT STUDENTS:

*Enrollment in Distance Education is charged by he credit hour regardless of the number of enrollment hours.

*Non-Resident students are not charged a non-resident fee for enrollment in distance Education courses.

Distance Education Campus	Summer Semester 2015	Fall Semester 2015	Spring Semester 2016
Tuition (Per Credit Hour)	$391.50	$410.75	$410.75
Instructional Support Fee (Per Credit Hour)	$25.00	$25.00	$25.00
TOTAL - Graduate, Resident or Non-Resident Student Tuition and Required Fees (Per Credit Hour)	$416.50	$435.75	$435.75

- Additional tuition and required fees, and often course-specific distance fees, are assessed on all distance (Camus 5) courses. Please the distance fees link on Account Services' webpage http://controller.msstate.edu/accountservices/tuition/ for additional information.

T&RF Relative to Student Activities

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

Course Participation Fees

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

Course Change Fees

This information is accessed at http://www.msstate.edu/dept/audit/1201.html.

Managing Your MSU Student Account

Account Information

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

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

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

Payment Due Dates and Service Fees

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

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

Unpaid Balances from Prior Semesters

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

- All payments received on student accounts will be applied to charges in the same order in which the charges were incurred.
- A student who has a hold on his/her record because of an overdue account may not receive a transcript or a diploma until the account has been paid to current status.
- Per federal financial aid regulations, prior aid year outstanding charges cannot be paid with current aid year financial aid.

Overdue Account Restrictions

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

- The student’s records may be cleared and a diploma or transcript released when the indebtedness is paid in full.
- If a financial hold is released based upon a financial agreement and the terms and conditions of that agreement are not met, MSU reserves the right to void the current term class schedule without

notice and without promise of reinstatement of the same class schedule.

Attorney and Collection Fees

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

- The prevailing collection rate up to $33^{1/3}$% 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 fees 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, Visa, 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, Visa, and MasterCard.[1]
- 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.

[1] Your card account will be assessed a 2.7% service fee in addition to the payment amount.

Wire Transfer

Please contact Account Services at 662-325-2071 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 7 calendar days after posting to the student's account. Credit balances resulting from overpayments by credit card will be refunded to the credit card account on which the original payment was made.

Web Instructions to Access Account

From the MSU main Web page, the student should select myState; secure user access using his/her personal NetID and password; click on the Banner tab for access to the following services:

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

Helpful Phone Numbers

Name	Phone Number
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 e-form.

Senior Citizen

Legal residents of the State of Mississippi age 60 or older may enroll tuition-free in a maximum of 6 hours per semester with a maximum of 18 credit hours per calendar year. These courses are available on a space-available, first-come, first-serve basis. Enrollment in courses offered for the Doctor of Veterinary Medicine degree is not permitted. The application fee of $60.00 is required with the graduate application.

Alumni Nonresident Exemption

Graduate students who are sons or daughters of an alumnus or alumna who earned a minimum of 48 semester hours of credit or a degree from Mississippi State University and who have not received other tuition waivers are eligible for a waiver of 50 percent of non-resident tuition. A minimum 3.00 cumulative GPA is required for renewal of the waiver. Grades are checked at the end of each fall semester.

Immunization Requirements

Required Measles/Rubella Immunization

In cooperation with the Mississippi State Department of Health and for the protection of our students, Mississippi State University requires new students, including transfers, born after 1956 to provide proof of immunity of 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:

1. 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.
2. serologic confirmation of immunity to measles AND rubella (must be confirmed by laboratory report)
3. 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.

Legal Resident Status

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

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

Institutions of Higher Learning
http://www.ihl.state.ms.us/board/downloads/policiesandbylaws.pdf
Paragraphs 610 and 611

Mississippi State University
http://www.msstate.edu/dept/audit/3102.html
Academic Operating Policy APO 31.02 Legal Resident Status

Petition for Change of Residency Classification

A person who enters the State of Mississippi from another state and enters an educational institution is considered a non-resident. Any person who has after attaining the age of twenty-one (21) and has since their twenty-first birthday established residency and resided within the State of Mississippi for twelve (12) consecutive months may:

1. upon sworn affidavit and other representation, and
2. who can prove financial independence, petition for a change in residency classification for the purposes of fees and tuition assessment.

Residency changes are not retroactive, and the following conditions apply:

1. The institution may make reasonable inquiry into the validity of the petitioner's claim.
2. A petition for change of residency must be received **prior to the last day** a student may **register** without penalty of the term for which the student is applying for residency.

Factors Regarding Residency

Although domicile and residency for educational purposes are largely matters of intention, this intention is determined objectively from the facts and circumstances surrounding a claim of in-state residency. Some of the factors relevant to determining residency include:

- Actual physical residence of habitation
- Length of time at actual physical residence-Residence used for income tax, loan, banking and other purposes
- Voter registration
- Motor vehicle registration (Persons moving into the state on a permanent basis have 30 days to register vehicles.)
- Driver's license held (Persons moving into the state on a permanent basis have 60 days to acquire driver's licenses.)
- State to which personal income taxes or other taxes paid
- Status of income sources
- Location of bank, savings, and other accounts

Responsibility for Reporting Change

It is the individual student's responsibility to report immediately to the Registrar any change, which will affect his or her residence status under these regulations.

Institutions of Higher Learning (College Board) and University Policies Concerning Nonresident Tuition

In addition to state laws and regulations, the University has established certain IHL Board-approved regulations concerning the payment of non-resident tuition. Mississippi State University (except the College of Veterinary Medicine) may waive a percentage of the non-resident tuition for the following groups of students:

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

Academic Common Market

Academic Common Market non-resident tuition remission (exemptions) are available for specific academic programs for students from certain states. Application must be made first with the awarding state. The student must be a legal resident of that state and approved for a specific major at MSU. Both undergraduate and graduate students are eligible to apply. A qualified student must maintain full-time status, remain in academic good standing, and comply with all the requirements of the degree program. The waiver is 100 percent of non-resident tuition remission and will remain at this level unless the student's field of study changes or a student no longer has full-time status. If a student changes his/her major from the approved ACM certified major, then he/she must inform the Office of the Provost of the change of status. The student will be responsible for the non-resident tuition for the remaining semesters at MSU. To be eligible for the non-resident tuition remission during the first semester of enrollment, applications and resident verification must be submitted to and approved by the Office of the Provost and Executive Vice President for Academic Affairs prior to the first day of class. For more information about submission and deadlines, please contact that office at 662-325-3742. Students seeking information on the Academic Common Market waiver should contact:

Academic Common Market
Southern Regional Education Board
592 10th Street NW
Atlanta, GA 30318-5790
www.sreb.org (http://www.sreb.org)

Requirements Quick Reference

Degrees Offered

Master of Agribusiness Management (M.A.B.M.)

Master of Arts (M.A.)

Master of Arts in Teaching (M.A.T.)

Master of Arts in Teaching-Middle Level (M.A.T.M.)

Master of Arts in Teaching-Secondary (M.A.T.S.)

Master of Arts in Teaching-Special Education (M.A.T.X.)

Master of Business Administration (M.B.A.)

Master of Engineering (M.Eng.)

Master of Landscape Architecture (M.L.A.)

Master of Professional Accountancy (M.P.A.)

Master of Public Policy and Administration (M.P.P.A.)

Master of Science (M.S.)

Master of Science in 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 major)

Abbreviation	Description
ACC	Accounting
ASE	Aerospace Engineering
AGBM	Agribusiness Management
AEC	Agricultural Economics
AEE	Agricultural and Extension Education
AEEL	Agricultural and Extension Education-Leadership
AEET	Agricultural and Extension Education-Teaching
AGS	Agricultural Sciences
ALSC	Agricultural Life Sciences
AGR	Agriculture
AGN	Agronomy
ADS	Animal and Dairy Sciences
ANNT	Animal Nutrition
PHY	Animal Physiology
ASC	Animal Science
APAN	Applied Anthropology
APMT	Applied Meteorology
ACSC	Applied Cognitive Science
APHY	Applied Physics
APSY	Applied Psychology
BCH	Biochemistry
BE	Biological Engineering
BIO	Biological Sciences
BME	Biomedical Engineering
BMP	Broadcast Meteorology
BA	Business Administration
BUSI	Business Administration (Meridian)
BIS	Business Information Systems
CHE	Chemical Engineering
CH	Chemistry
CE	Civil Engineering
MH	Clinical Mental Health Counseling
CLPS	Clinical Psychology
CC	College Counseling
PHCE	College/Post-Secondary Student Counseling & Personnel Services
CED	Community College Education
PHCL	Community College Leadership
VCBC	Computational Biology
CME	Computational Engineering
CS	Computer Science
COE	Counselor Education
PHSE	Counselor Education/Student Counseling & Guidance Services
CIED	Curriculum and Instruction-Early Childhood Education
CIEE	Curriculum and Instruction-Elementary Education
CIGE	Curriculum & Instruction-General Education
CIRE	Curriculum and Instruction-Reading Education
CISE	Curriculum and Instruction-Secondary Education
CIEX	Curriculum and Instruction-Special Education
EASC	Earth & Atmospheric Sciences (see Geosciences)
EC	Economics (also see GAEC)
EDUC	Education
ET	Education-Technology
EPY	Educational Psychology
ECPE	Electrical and Computer Engineering
ELED	Elementary Education
ECED	Elementary Education-Early Childhood Education
GEED	Elementary Education-General Education
MLED	Elementary Education-Middle Level Education
EDAD	Elementary, Middle, & Secondary Education Administration
ENGR	Engineering (see M ENG)
ENGT	Engineering Technology
EN	English
ENT	Entomology
ENGS	Environmental Geoscience
ENVT	Environmental Toxicology
EXPY	Exercise Physiology
EXSC	Exercise Science
FIN	Finance
NFSH	Food Science, Nutrition & Health Promotion
FST	Food Science and Technology
FL	Foreign Language
FP	Forest Products
FOR	Forest Resources
FO	Forestry
GEOL	Geology
GG	Geosciences (also Earth & Atmospheric Science)
GESP	Geospatial Sciences
GBIO	General Biology
GEP	General Educational Psychology
GNS	Genetics
GPHY	Geography
GAEC	Grad Applied Economics

HLPR	Health Promotion
HI	History
HO	Horticulture
HDFS	Human Development & Family Studies
HFE	Human Factors & Ergonomics
IE	Industrial Engineering
SYS	Industrial Systems
VIDC	Infectious Disease
ISE	Industrial & Systems Engineering
INFS	Information Systems
ISWD	Instructional Systems & Workforce Development
IT	Instructional Technology
KINE	Kinesiology
LA	Landscape Architecture
LFSC	Life Sciences
MGT	Management
MGTS	Management Systems
MFGS	Manufacturing Systems
MKT	Marketing
MASC	Mathematical Sciences
MA	Mathematics
ME	Mechanical Engineering
MLAR	Middle Level Alternate Route
MOLB	Molecular Biology
NTR	Nutrition
OPRS	Operations Research
PH	Physics
PP	Plant Pathology
PS	Political Science
PO	Poultry Science
PMCL	Professional Meteorology/ Climatology
PM	Project Management
PMNT	Population Medicine Non-Thesis
PSY	Psychology
PPA	Public Policy & Administraiton
RC	Rehabilitation Counseling
EDLS	School Administration
SLP	School Psychology (major)
SLC	School Counseling (concentration)
SPSY	School Psychology
SEED	Secondary Education
STAR	Secondary Teacher Alternate Route
SO	Sociology
EXED	Special Education
EXAR	Special Education Alternate Route
SPAD	Sports Administration
SPPE	Sport Pedagogy
SS	Sport Studies
ST	Statistics
SA	Student Affairs
SYS	Systems
TAX	Taxation
TIG	Teachers in Geosciences
MST	Technology
TOXI	Toxicology
UNC	Unclassified (No degree)
VMRC	Veterinary Medical Research
VMS	Veterinary Medicine Science
WS	Weed Science
FOWL	Wildlife and Fisheries
WFA	Wildlife, Fisheries and Aquaculture
WEL	Workforce Education Leadership

The chart below is in alpha order by abbreviation of major.

Major	Degree	GRE	GMAT	GPA	TOE-IELTS
ACC	MPA		Yes	3.00	575-7.0
ACC-Concentratio					
SYS	MPA		Yes	3.00	575-7.0
AEE-Concentratio					
AEEL	MS	Yes		2.75	550-6.5
AEET	MS	Yes		2.75	550-6.5
AGBM	MABM		Yes	3.00	575-7.0
AGR-Concentratio					
AEC	MS	Yes		2.75	575-7.0
AGN	MS	Yes		2.75	500-5.5
ANNT	MS			3.00	550-6.5
ASC	MS			3.00	550-6.5
ENGT	MS	Yes		2.75	550-6.5
HO	MS	Yes		2.75	500-5.5
PO	MS			2.75	550-6.5
WS	MS	Yes		3.00	550-6.5
AGS-Concentrations:					
ADS	PhD	Yes		3.00	575-7.0
AEE	PhD	Yes		2.75 undergraduate/3.00 graduate	550-6.5
AGN	PhD	Yes		3.00	500-5.5
ANNT	PhD			3.00	575-7.0
ENGT	PhD	Yes		2.75	550-6.5
HO	PhD	Yes		3.00	500-5.5
PO	PhD			2.75	550-6.5
WS	PhD	Yes		3.00 undergraduate/3.25 graduate	550-6.5
ALSC-Concentratio					
BCH	MS	Yes		2.75	550-6.5
ENT	MS	Yes		3.00	500-5.5
GNS	MS	Yes		3.00	500-5.5

PHY	MS			3.00	575-7.0
PP	MS	Yes		3.00	500-5.5
APAN	MA	Yes		3.00	550-6.5
APSY-Concentrations:					
ACSC	Ph.D.	Yes		3.00	550-6.5
CLPS	Ph.D.	Yes		3.00	550-6.5
ASE	MS	Yes		3.00	550-6.5
BA	MBA	or GMAT	or GRE	3.00	575-7.0
BA-Concentratio					
BIS	PhD		Yes	3.00 undergraduate/3.25 graduate	575-7.0
FIN	PhD		Yes	3.00 undergradua graduate	575-7.0
MGT	PhD		Yes	3.00 undergraduate/3.25 graduate	575-7.0
MKT	PhD		Yes	3.00 undergradua graduate	575-7.0
BE	MS	Yes		2.75	550-6.5
BIO	MS/PhD	Yes		2.75	500-5.5
BME	MS/PhD	Yes		3.00	600-7.5
BUSI	MBA		Yes	3.00	575-7.0
CE	MS	Yes		3.00	550-6.5
CED	MAT	Yes		2.75	550-6.5
CH	MS/PhD			2.75	477-5.0
CHE	MS	Yes		3.00	550-6.5
CIED: Concentrations					
CIED	PhD	Yes		3.4	550-6.5
CIEE	PhD	Yes		3.40	550-6.5
CIEX	PhD	Yes		3.40	550-6.5
CIGE	PhD	Yes		3.40	550-6.5
CIRE	PhD	Yes		3.40	550-6.5
CISE	PhD	Yes		3.40	550-6.5
CME	MS/PhD			2.75	550-6.5
COE-Concentrations:					
CC	MS	Yes		3.00	550-6.5
MH	MS	Yes		3.00	550-6.5
RC	MS	Yes		3.00	550-6.5
SA	MS	Yes		3.00	550-6.5
SLC	MS	Yes		3.00	550-6.5
CS	MS/PhD	Yes		2.75	550-6.5
EASC	PhD	Yes		3.00	550-6.5
EC	MA	Yes		2.75	575-7.0
ECPE	MS	Yes		3.00 undergradua	550-6.5
ECPE	PhD	Yes		3.50 undergraduate or master's	
EDAD	PhD	Yes		3.40	600-7.5
EDLS	MS	Yes		2.75	550-6.5
EDUC-Concentratio					
COE	EdS	Yes		3.00 undergraduate/3.30 graduate	550-6.5
EDLS	EdS	Yes		3.20 on master's	550-6.5
ELED	EdS	Yes		3.20 on master's	550-6.5
ET	EdS	Yes		3.20 on master's	550-6.5
EXED	EdS	Yes		3.20 on master's	550-6.5
SEED	EdS	Yes		3.20 on master's	550-6.5
SPSY	EdS	Yes		3.30 on master's	550-6.5
ELED-Concentratio					
ECED	MS	Yes		2.75	550-6.5
GEED	MS	Yes		2.75	550-6.5
MLED	MS	Yes		2.75	550-6.5
EN	MA			3.00	625-8.0
ENGR	M ENG	Yes		3.00	550-6.5
ENGR-Concentratio					
APHY	PhD			2.75	523-6.0
ASE	PhD	Yes		3.00	550-6.5
BE	PhD	Yes		2.75	550-6.5
CE	PhD	Yes		3.00	550-6.5
CHE	PhD	Yes		3.20	550-6.5
ME	PhD	Yes		2.75	550-6.5
ENVT	PhD			3.00	550-6.5
EPY-Concentratio					
GEP	PhD	Yes		3.40	550-6.5
SLP	PhD	Yes		3.40	550-6.5
EXAR	MATX	Yes		2.75	550-6.5
EXED	MS	Yes		2.75	550-6.5
FL	MA			2.75	525-6.0
FO	MS			3.00	550-6.5
FOR-Concentrations:					
FO	PhD			3.20	550-6.5
FOWL	PhD	Yes		3.20	550-6.5
FP	PhD			3.00	550-6.5
FP	MS			3.00	550-6.5
GAEC	PhD	Yes		3.00 undergradua graduate	575-7.0

GBIO	MS			2.75	500-5.5
GG-Concentratio					
BMP	MS	Yes		2.75	550-6.5
ENGS	MS	Yes		2.75	550-6.5
GEOL	MS	Yes		2.75	550-6.5
GESP	MS	Yes		2.75	550-6.5
GPHY	MS	Yes		2.75	550-6.5
PMCL	MS	Yes		2.75	550-6.5
APMT	MS			2.75	550-6.5
TIG	MS			2.75	550-6.5
HDFS	MS	Yes		3.00	550-6.5
HDFS	PhD	Yes		3.00 graduate	550-6.5
HI	MA/PhD	No/Yes		3.00	550-6.5
IE-Concentratio					
HFE	MS	Yes		3.00	550-6.5
MFGS	MS	Yes		3.00	550-6.5
MGTS	MS	Yes		3.00	550-6.5
OPRS	MS	Yes		3.00	550-6.5
SYS	MS	Yes		3.00	550-6.5
ISE	PhD	Yes		3.50	550-6.5
INFS	MSIS	or GMAT	or GRE	3.00	575-7.0
ISWD	PhD	Yes		3.40	550-6.5
IT					
Distance Educatio	MSIT	Yes		2.75	550-6.5
Instructional Technology	MSIT	Yes		2.75	550-6.5
Multimed	MSIT	Yes		2.75	550-6.5
KINE-Concentrations					
EXPY	MS	Yes		3.00	550-6.5
EXSC	PhD	Yes		3.00	550-6.5
SPAD	MS	Yes		3.00	550-6.5
SPPE	MS	Yes		3.00	550-6.5
SS	PhD	Yes		3.00	550-6.5
LA	MLA			2.80	600-7.5
LFSC-Concentratio					
BCH	PhD	Yes		3.00	500-5.5
ENT	PhD	Yes		3.00	500-5.5
GNS	PhD	Yes		3.00	500-5.5
PHY	PhD	Yes		3.00	575-7.0
PP	PhD	Yes		3.00	500-5.5
MA	MS			2.75	477-5.0
MASC	PhD	Yes		2.75	477-5.0
ME	MS	Yes		2.75	550-6.5
MLAR	MATM	Yes		2.75	550-6.5
MOLB	PhD	Yes		2.75	550-6.5
MST	MS	Yes		2.75	550-6.5
NFSH-Concentratio					
FST	MS/PhD	Yes/Yes		2.75	550-6.5
HLPR	MS	Yes		2.75	550-6.5
NTR	MS/PhD	Yes/Yes		2.75	550-6.5
PH	MS/PhD			2.75	523-6.0
PHCE	PhD	Yes		3.40	550-6.5
PHCL	PhD	Yes		3.40	550-6.5
PHSE	PhD	Yes		3.40	550-6.5
PM	MBA		Yes	3.00	575-7.0
PPA	MPPA	Yes		3.00	600-7.5
PPA	PhD	Yes		3.00 undergradua master's	600-7.5
PS	MA			3.00	600-7.5
PSY	MS	Yes		2.75	550-6.5
SEED	MS	Yes		2.75	550-6.5
SO	MS/PhD	Yes/Yes		3.00	550-6.5
ST	MS			2.75	477-5.0
STAR	MATS	Yes		2.75	550-6.5
TAX	MTX		Yes	3.00	575-7.0
UNC	No degree				550-6.5
VMS	MS/PhD			3.00	550-6.5
PMNT	MS			3.00	550-6.5
TOXI	MS			3.00	550-6.5
VCBC	MS/PhD			3.00	550-6.5
VIDC	MS/PhD			3.00	550-6.5
VMRC	MS/PhD			3.00	550-6.5
WEL	MS	Yes		2.75	550-6.5
WLE	MS	Yes		3.00	477-5.0

“Yes” = required standardized test

Abbreviations

Abbreviation	Description
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

Colleges and Degree Programs

Mississippi State University is a comprehensive, doctoral-degree-granting university offering to a diverse and capable student body a wide range of academic opportunities. The University has eight colleges that offer graduate courses and/or programs. These courses and/or programs are offered on the main campus in Starkville, at the Meridian campus, and/or online via the Center for Distance Learning. While the University has approved policies and requirements that affect all graduate courses and programs, each college and department may have additional approved requirements. Please refer to each academic program for details.

Academic Affairs

The Career Center

Director: Scott N. Maynard
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
Telephone: 662-325-3823
Website: www.coop.msstate.edu

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

Seniors Coordinators: Lisa Gooden and Megan Artz

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
CP 8023	Second Work Semester (CP 8013)	3
CP 8033	Third Work Semester (CP 8023)	3
CP 8043	Fourth Work Semester (CP 8033)	3
CP 8053	Fifth Work Semester (CP 8043)	3

For further information contact Angie Chrestman (http://catalog.msstate.edu/graduate/colleges-degree-programs/academic-affairs/#associate-director).

International Institute

Interim Associate Vice President and Executive Director: Dr. Jon Rezek
116 Allen Hall
PO Box 6144
Mississippi State, MS 39762
Telephone: 662-325-0549
Fax: 662-325-4242

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 houses academic programs through the Office of Study Abroad, responsible for providing support for faculty and students to study, observe, and understand divergent cultures and traditions internationally, and the English as a Second Language (ESL) Center, home to many international students who are working to improve their English proficiency. The Institute's International Services Office also provides immigration advisory service for faculty and students, as well as assistance for faculty, staff, and students traveling abroad.

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 Institute also develops, promotes, and aids faculty and student engagement in international scholarly and research activities by maintaining relationships with sponsoring agencies such as the Fulbright Foundation.

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. The International Institute's international research development unit aids in promoting the skills and expertise of our faculty and identifying potential interdisciplinary research and outreach activities.

International Education

ESL Center

Director: Alison Stamps
103 Memorial
Mississippi State, MS 39762
Telephone: 662-325-2648
E-mail: esl@msstate.edu
Website: www.eslc.msstate.edu

The English as a Second Language (ESL) Center provides an intensive language and culture program to support all international students. 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 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. Does not count toward any degree.)	1-18
ESL 5120	American Language and Culture II (ESL 5110 or TOEFL score between 500 and 524 [or equivalent] or consent of instructor. Does not count toward any degree.)	1-18
ESL 5323	Academic Research and Writing (ESL 5120 or TOEFL score above 500 [or equivalent]. Does not count toward any degree.)	3
ESL 5333	Critical Reading (ESL 5120 or TOEFL score above 500 [or equivalent]. Does not count toward any degree.)	3
ESL 5313	Classroom and Communication and Presentation (ESL 5120 or TOEFL score above 525 [or equivalent]. Does not count toward any degree.)	3

College of Agriculture and Life Sciences

Dean: Dr. George Hopper
Associate Dean: Dr. Scott Willard
201 Bost Extension Building
Box P
Mississippi State, MS 39762
Telephone: 662-325-2110
Fax: 662-325-8580
E-mail: dean@cals.msstate.edu
Website: http://www.cals.msstate.edu

Degree and Certificate Programs

Department	Degree and Major	Concentration	Thesis	Non-Thesis	Starkville	Meridian	Distance
Agricultural Economics	Master of Science - Agriculture	Agricultural Economics	X	X	X		
Animal and Dairy Sciences	Master of Science - Agriculture	Animal Science	X	X	X		
Animal and Dairy Sciences	Doctor of Philosophy - Agricultural Sciences	Animal and Dairy Science	X		X		
Biochemistry, Molecular Biology, Entomology, and Plant Pathology	Master of Science - Agricultural Life Sciences	Biochemistry	X	X	X		
Biochemistry, Molecular Biology, Entomology, and Plant Pathology	Master of Science - Agricultural Life Sciences	Entomology	X		X		
Biochemistry, Molecular Biology, Entomology, and Plant Pathology	Master of Science - Agricultural Life Sciences	Plant Pathology	X		X		
Biochemistry, Molecular Biology, Entomology, and Plant Pathology	Doctor of Philosophy - Molecular Biology		X		X		
Biochemistry, Molecular Biology, Entomology, and Plant Pathology	Doctor of Philosophy - Life Sciences	Biochemistry	X		X		
Biochemistry, Molecular Biology, Entomology, and Plant Pathology	Doctor of Philosophy - Life Sciences	Entomology	X		X		
Biochemistry, Molecular Biology, Entomology, and Plant Pathology	Doctor of Philosophy - Life Sciences	Plant Pathology	X		X		
Food Science, Nutrition and Health Promotion	Master of Science - Food Science, Nutrition and Health Promotion	Food Science and Technology	X		X		

Food Science, Nutrition and Health Promotion	Master of Science - Food Science, Nutrition and Health Promotion	Health Promotion	X	X	X
Food Science, Nutrition and Health Promotion	Master of Science - Food Science, Nutrition and Health Promotion	Nutrition	X		X
Food Science, Nutrition and Health Promotion	Doctor of Philosophy - Food Science, Nutrition and Health Promotion	Food Science and Technology	X		X
Food Science, Nutrition and Health Promotion	Doctor of Philosophy - Food Science, Nutrition and Health Promotion	Nutrition	X		X
Human Sciences, School of	Master of Science - Agricultural and Extension Education	Leadership	X	X	X
Human Sciences, School of	Master of Science - Agricultural and Extension Education	Teaching	X	X	X
Human Sciences, School of	Doctor of Philosophy - Agricultural Sciences	Agricultural and Extension Education	X		X
Human Sciences, School of	Master of Science - Human Development and Family Studies		X	X	X
Human Sciences, School of	Doctor of Philosophy - Human Development and Family Studies		X		X
Human Sciences, School of	Gerontology Certificate				
Landscape Architecture	Master of Landscape Architecture - Landscape Architecture		X	X	X
Plant and Soil Sciences	Master of Science - Agriculture	Agronomy	X	X	X
Plant and Soil Sciences	Master of Science - Agriculture	Horticulture	X		X
Plant and Soil Sciences	Master of Science - Agriculture	Weed Science	X		X
Plant and Soil Sciences	Doctor of Philosophy - Agricultural Sciences	Agronomy	X		X

Plant and Soil Sciences	Doctor of Philosophy - Agricultural Services	Horticulture	X		X
Plant and Soil Sciences	Doctor of Philosophy - Agricultural Sciences	Weed Science	X		X
Poultry Science	Master of Science - Agriculture	Poultry Science	X	X	X
Poultry Science	Doctor of Philosophy - Agricultural Sciences	Poultry Science	X		X
Interdisciplinary Program	Master of Agribusiness Management - Agribusiness Management			X	X
Interdisciplinary Program	Master of Science - Agricultural Life Sciences	Animal Physiology	X	X	X
Interdisciplinary Program	Master of Science - Agricultural Life Sciences	Genetics	X	X	X
Interdisciplinary Program	Master of Science - Agriculture	Animal Nutrition	X		X
Interdisciplinary Program	Master of Science - Agriculture	Engineering Technology	X	X	X
Interdisciplinary Program	Doctor of Philosophy - Agricultural Sciences	Animal Nutrition	X		X
Interdisciplinary Program	Doctor of Philosophy - Agricultural Sciences	Engineering Technolgoy	X		X
Interdisciplinary Program	Doctor of Philosophy - Life Sciences	Animal Physiology	X		X
Interdisciplinary Program	Doctor of Philosophy - Life Sciences	Genetics	X		X

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;
- Molecular Biology;
- Biological Sciences (College of Arts and Sciences);
- Entomology and Plant Pathology;
- Poultry Science;
- Wildlife, Fisheries and Aquaculture (College of Forest Resources);

- College of Business.

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

Department Head: Dr. Steven C. Turner
Graduate Coordinator: Dr. Barry J. Barnett
101 Lloyd Ricks Watson
Box 5187
Mississippi State, MS 39762
Telephone: 662-325-2750
Website: www.agecon.msstate.edu

An Interdisciplinary Program

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

Admission Criteria

An applicant for admission to graduate study must hold a bachelor's degree from a fully recognized four-year educational institution that has unconditional accreditation with appropriate regional accrediting agencies. He/she must meet the admission requirements of the Graduate School and the Master of Agribusiness Management Program. Admission is based primarily on past performance, letters of recommendation, and the Graduate Record Examination (GRE) or 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 GRE or 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 (84 iBT) or an IELTS (International English Language Testing Systems) score of 7.0 or higher to be considered for admission.

Provisional Admission

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 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.

Master of Agribusiness Management

Foundation Requirements

ACC 2203	Survey of Accounting	3
or ACC 2013	Principles of Financial Accounting	
BQA 8443	Statistical Analysis for Business Decision-making	3
or BQA 2113 & BQA 3123	Business Statistical Methods I and Business Statistical Methods II	
EC 4043	Survey of Economics	3
or EC 2123	Principles of Microeconomics	
FIN 3123	Financial Management	3
MGT 8063	Survey of Management	3
or MGT 3114	Principles of Management and Production	
Total Hours		**15**

The foundation portion of the program consists of 15 hours that may be satisfied in part or total by prior undergraduate or graduate preparation.

Core Requirements

ACC 8213	Financial Statement and Management Accounting Report Analysis for Decision Making	3
AEC 6530	Agribusiness Management Internship	3
AIS 8203	Advanced Communication in Agricultural Information Science and Education	3
FIN 8113	Corporate Finance	3
MKT 8153	Strategic Marketing Management	3
AEC Graduate Courses [1]		12
Approved Electives [2]		9
Total Hours		**36**

1. The student must receive credit for AEC 6113 and AEC 6223 if credit was not earned for these or equivalent courses at the undergraduate level.
2. The student must receive credit for EC 8103 if credit was not earned for EC 3123 or an equivalent course at the undergraduate level.

Program of Study/Completion Requirements

The Master of Agribusiness Management degree program requires a minimum of 36 hours of coursework which includes an internship and a comprehensive examination. At least 15 of the total course credit hours must be at the 8000 level.

Agricultural Economics

Head: Dr. Steven C. Turner
Graduate Coordinator: Dr. Barry J. Barnett
101 Lloyds Ricks Watson
Box 5187
Mississippi State, MS 39762
Telephone: 662-325-2750
Website: www.agecon.msstate.edu

The Department of Agricultural Economics offers a degree program leading to the Master of Science in Agriculture with a concentration in Agricultural Economics. This program stresses thorough mastery of advanced economic theory, methods of quantitative analysis, and the applications of these methods to the problems of agriculture. The broad program of economic research conducted by the department affords a wide selection of areas from which the student may choose a specific problem for research.

The Master of Science in Agriculture with a concentration in Agricultural Economics program is designed for the student to begin graduate coursework in a fall semester; thus, the student must submit application materials prior to July 1. However, graduate research assistantship decisions are usually made in March, and admission to the program must be obtained before an assistantship may be granted. Students are encouraged to apply no later than February. For additional program information, please visit the department's website at www.agecon.msstate.edu.

Admission Criteria

To obtain regular admission status to the M.S. program, an applicant must meet all University-wide graduate admission requirements and must achieve acceptable scores on each section of the GRE. A minimum TOEFL (Test of English as a Foreign Language) report of 575 PBT (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 has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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.**

An Agricultural Economics 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	3
AEC 6733	Econometric Analysis in Agriculture Economics	3
AEC 8163	Consumers, Producers, and Markets	3

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	3
EC 3123	Intermediate Microeconomics	3
MA 1613	Calculus for Business and Life Sciences I	3
ST 2113	Introduction to Statistics	3

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.

Master of Science in Agriculture with Agricultural Economics Concentration - Non-Thesis

First Year, Fall Semester		
AEC 8611	Research Seminar I	1
AEC 6713	Quantitative Economics	3
AEC 6733	Econometric Analysis in Agriculture Economics	3
AEC 8163	Consumers, Producers, and Markets	3
First Year, Spring Semester		
AEC 8621	Research Seminar II	1
AEC 8143	Agricultural Production Economics	3
AEC 8123	Market Organization and Structure	3
AEC 8403	Game Theory	3
Other Requirements		
AEC 8233	Applied Welfare and Environmental Economics	3
AEC 8843	Survey Design and Experimental Economics	3
AEC 7000	Directed Individual Study in Agricultural Economics and Agribusiness	1-6
Electives, if required to complete the 32-hour program of study		5
Total Hours		**32-37**

The curriculum is designed as a lock-step sequence of 26 hours of core coursework. The non-thesis student must take from 1 to 6 Directed Individual Study hours toward a research paper. Approved electives can

be used to meet the 32-hour requirement. A minimum of 15 hours at the 8000-level is required.

Master of Science in Agriculture with Agricultural Economics Concentration - Thesis

First Year, Fall Semester		
AEC 8611	Research Seminar I	1
AEC 6713	Quantitative Economics	3
AEC 6733	Econometric Analysis in Agriculture Economics	3
AEC 8163	Consumers, Producers, and Markets	3
First Year, Spring Semester		
AEC 8403	Game Theory	3
AEC 8621	Research Seminar II	1
AEC 8143	Agricultural Production Economics	3
AEC 8123	Market Organization and Structure	3
Other Requirements		
AEC 8233	Applied Welfare and Environmental Economics	3
AEC 8843	Survey Design and Experimental Economics	3
AEC 8000	Thesis Research/ Thesis in Agricultural Economics and Agribusiness	6
Total Hours		**32**

The curriculum is designed as a lock-step sequence of 26 hours of core coursework. The thesis student must take at least 6 hours of AEC 8000 Thesis/Research. At least 12 hours of coursework, exclusive of the thesis credits, must be 8000-level courses.

The thesis 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.

Agricultural and Biological Engineering

Department Head: Dr. Jonathan Pote
Graduate Coordinator: Dr. Prem Parajuli
150 Agricultural Engineering Building
Box 9632
Mississippi State, MS 39762
Telephone: 662-325-3282
E-mail: abe_head@abe.msstate.edu (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 (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

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 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.

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.

Master of Science in Agriculture with Engineering Technology Concentration - Thesis

ST 8114	Statistical Methods	4
Select one of the following:		1
ABE 8911	Agricultural and Biological Engineering Seminar	
ABE 8921	Agriculturual and Bio Engineering Seminar	
ABE 8XXX	Minimum of 12 hours in 8000-level or higher courses	12
Graduate-level coursework		7

ABE 8000	Thesis Research/ Thesis in Agricultural and Biological Engineering	6
Total Hours		**30**

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. 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 of Science in Agriculture with Engineering Technology Concentration - Non-Thesis

ST 8114	Statistical Methods	4
Select one of the following:		1
ABE 8911	Agricultural and Biological Engineering Seminar	
ABE 8921	Agriculturual and Bio Engineering Seminar	
Graduate-level coursework		25
Total Hours		**30**

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 with at least 15 hours at the 8000-level. The major professor and graduate committee will determine specific course requirements for the student's program. The student must submit a research paper.

Doctor of Philosophy in Agricultural Sciences with Engineering Technology Concentration

Select two of the following:		2
ABE 8911	Agricultural and Biological Engineering Seminar	
ABE 8921	Agriculturual and Bio Engineering Seminar	
ABE 8XXX	Minimum of 30 hours in 8000-level or higher courses	30
ABE XXXX	Coursework	8
ABE 9000	Dissertation Research/ Dissertation in Agricultural and Biological Engineering	20
Total Hours		**60**

Doctoral students are required to complete a minimum of 60 credit hours of coursework beyond the baccalaureate degree. 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.

Animal Nutrition

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

An Interdisciplinary Curriculum

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, Fisheries and Aquaculture; and Biochemistry.

Master of Science in Agriculture with Concentration in Animal Nutrition

Admission Criteria

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

Provisional Admission

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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.**

Doctor of Philosophy in Agricultural Sciences with Concentration in Animal Nutrition

Admission Criteria

Prerequisites for admission include a master's degree. A minimum of 3.00 quality point average on a 4.00 scale is required for all post-baccalaureate courses. Any request for Graduate Record Examination (GRE) scores is dependent upon the faculty member who will serve as the thesis director (major professor), but the GRE score is not an Animal Nutrition graduate program requirement. A statement of purpose and letters of recommendation are required of all applicants.

Provisional Admission

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

Master of Science in Agriculture with Animal Nutrition Concentration

BCH 6603	General Biochemistry	3
BCH 6613	General Biochemistry	3
ST 8114	Statistical Methods	4
ST 8214	Design and Analysis of Experiments	4
Research/thesis		6
Graduate-level coursework		10
Total Hours		**30**

At least 12 hours of coursework must be at the 8000-level.

The Master of Science degree requires a thesis defense. The Animal Nutrition program does not offer a non-thesis M.S. degree.

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.

Doctor of Philosophy in Agricultural Sciences with Animal Nutrition Concentration

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.

Animal Physiology

Graduate Coordinator: Dr. Scott Willard, Interim
201 Bost
Box 9760
Mississippi State, MS 39762
Telephone: 662-325-0233
E-mail: swillard (swillard@cals.msstate.edu)@cals.msstate.edu
(swillard@cals.msstate.edu)

An Interdisciplinary Program

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, Fisheries and Aquaculture. The program of study is developed by the student and his/her major professor with the approval of the student's graduate program committee. Specific courses vary depending on the needs of the student. A limited number of assistantships are available to qualified applicants.

Admission Criteria

Prerequisites for admission include a bachelor's or master's degree in animal, dairy or poultry science; human sciences; wildlife; fisheries or aquatic science; biological or physical science; or a doctor of medicine or veterinary medicine degree with an adequate background in chemistry. A minimum 3.00 overall grade point average (GPA) on a 4.00 scale is required. A student who has not fully met the requirements stipulated by the University and the program for admission (i.e., students with 2.50 to 2.99 GPA) may be granted admission to the Animal Physiology program with provisional status. The Graduate Record Exam (GRE) is not required for admission, but applicants are required to attempt the GRE. A paper-based (PBT) TOEFL (Test of English as a Foreign Language) of 575 (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 who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 Performance and Continuous Enrollment

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. 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.

Master of Science in Agricultural Life Sciences with Animal Physiology Concentration

Select two of the following:		2
PHY 8811	Animal Physiology Seminar	
PHY 8821		
PHY 8831		
PHY 8841	Animal Physiology Seminar	
8000-level coursework		12
PHY 8000	Thesis Research/ Thesis in Animal Physiology	6
Additional graduate-level coursework		10
Total Hours		**30**

A thesis defense is required.

M.S. 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 work.

The Animal Physiology program does not offer a non-thesis M.S. degree.

Other course requirements may include BCH 6603 and/or BCH 6613 and ST 8114 or equivalents.

A minor is not required but if selected an additional 9 hours of credit is required and a committee member from the minor area is required.

A graduate program of study should be submitted and approved by the student's graduate committee and graduate coordinator by the end of the first semester of graduate study. The graduate committee should be composed of the major professor and two committee members, one of whom should be a member of the Animal Physiology graduate faculty and the other may be a minor professor. Additional committee members may be included at the discretion of the major professor.

Doctor of Philosophy in Life Sciences with Animal Physiology Concentration

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 PHY 8811, PHY 8821, PHY 8831, and PHY 8841.

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 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.

The preliminary/comprehensive examination must be attempted by the end of the fifth semester of the program.

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.

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.

Animal and Dairy Sciences

Department Head: Dr. John Blanton
Graduate Coordinator: Dr. Brian Rude
4025 Wise Center
Box 9815
Mississippi State, MS 39762
Telephone: 662-325-2802
E-mail: brude@ads.msstate.edu

The Animal and Dairy Sciences program offers graduate study toward the Master of Science (thesis and non-thesis options) in Agriculture with a concentration in Animal Science and a Doctor of Philosophy in Agricultural Sciences with a concentration in Animal and Dairy Science. Master of Science and Doctor of Philosophy programs in Animal Nutrition; Food Science; Animal Physiology; and Genetics are also available through the interdepartmental programs (refer to the specific interdepartmental programs elsewhere in the Graduate Catalog 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 (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. See Provisional Admission Requirements (http://catalog.msstate.edu/graduate/academic-policies/academic-requirements/#provisionaladmissiontext) in this catalog.

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 (http://catalog.msstate.edu/graduate/academic-policies/academic-requirements/#provisionaladmissiontext), contingent admission (http://catalog.msstate.edu/graduate/admissions-information/admission-procedure/status), academic performance (http://catalog.msstate.edu/graduate/academic-policies/academic-requirements), and dismissal (http://catalog.msstate.edu/graduate/academic-policies/academic-probation-dismissal-appeal) policies.

Master of Science in Agriculture with Animal Sciences Concentration - Thesis

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. 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.

Master's degree students 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.

Graduate Seminar		1
ST 8114	Statistical Methods	4
ADS 8000	Thesis Research/ Thesis in Animal and Dairy Sciences	6
Graduate level coursework with at least 12 hours at the 8000-level		19
Total Hours		**30**

M.S. thesis 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 work.

Master of Science in Agriculture with Animal Sciences Concentration - Non-Thesis

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. 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.

Master's degree students 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.

Graduate Seminar		1
ST 8114	Statistical Methods	4
Graduate-level coursework with at least 12 hours at the 8000-level		25
Total Hours		**30**

The non-thesis 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.

Doctor of Philosophy in Agricultural Sciences with Animal and Dairy Science Concentration

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 dissertation work.

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.

Biochemistry, Molecular Biology, Entomology, and Plant Pathology

Department Head: Dr. Jeffrey Dean
402 Dorman Hall
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Mississippi State, MS 39762
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E-mail: jeffdean@bch.msstate.edu

Biochemistry and Molecular Biology Programs
Graduate Coordinator: Dr. Kenneth Willeford
445 Dorman Hall
Box 9655
Mississippi State, MS 39762
Telephone: 662-325-2651
E-mail: kwilleford (kwilleford@bch.msstate.edu)@bch.msstate.edu (dm1@ra.msstate.edu)

Entomology and Plant Pathology Programs
Graduate Coordinator: Dr. Michael Caprio
160 Clay Lyle Entomology Complex

Box 9775
Mississippi State, MS 39762
Telephone: 662-325-2985
E-mail: mcaprio@entomology.msstate.edu

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

- the Master of Science in Agricultural Life Sciences with a concentration in Animal Physiology or Genetics;
- the Master of Science in Agriculture with a concentration in Animal Nutrition;
- the Doctor of Philosophy in Life Sciences with concentrations in Animal Physiology or Genetics;
- the Doctor of Philosophy in Agricultural Sciences with a concentration in Animal Nutrition.

Admission Criteria

Prerequisites for admission include a bachelor's or master's degree in a physical or life science with a strong background in the program discipline of interest (biochemistry, molecular biology, entomology, or plant pathology). A graduate screening committee, composed of members of the Biochemistry, Molecular Biology, Entomology, and Plant Pathology faculty, screens all applicants. Final acceptance into a graduate program is contingent upon the availability of a suitable major professor. A minimum 2.75 overall grade point average on a 4.00 scale is required for admission. The GRE general test is required. International students are required to have a TOEFL (Test of English as a Foreign Language) score of 500 PBT (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 GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 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.

Master of Science in Agricultural Life Sciences with Biochemistry Concentration - Thesis

BCH 6603	General Biochemistry (prerequisite)	3
BCH 6613	General Biochemistry (prerequisite)	3
BCH 6414	Protein Methods	4
BCH 6804	Molecular Biology Methods [1]	4
BCH 8654	Intermediary Metabolism [1]	4
BCH 8101	Seminar [2]	2
Graduate-level coursework		4
BCH 8000	Thesis Research/ Thesis in Biochemistry, Molecular Biology, Entomology and Plant Pathology	6
Total Hours		**30**

1. Students completing the split-level BCH core courses at MSU at the 4000-level are exempt from these classes and other approved courses will be substituted in consultation with the major professor and the student's graduate committee, and a final oral examination.
2. All students are required to present two seminars; the first usually in the second semester in residence (e.g., proposal topic) and one on the final research results.

At least 12 hours of coursework must be taken at the 8000 level.

Master of Science in Agricultural Life Sciences with Biochemistry Concentration - Non-Thesis

BCH 6603	General Biochemistry (prerequisite)	3
BCH 6613	General Biochemistry (prerequisite)	3
BCH 6414	Protein Methods	4
BCH 6804	Molecular Biology Methods [1]	4
BCH 8654	Intermediary Metabolism [1]	4
BCH 8101	Seminar [2]	2
Graduate-level coursework		10
BCH 7000	Directed Individual Study in Biochemistry, Molecular Biology, Entomology and Plant Pathology [3]	3
Total Hours		**33**

1. Students completing the split-level BCH core courses at MSU at the 4000-level are exempt from these classes and other approved courses will be substituted in consultation with the major professor and the student's graduate committee, and a final oral examination.
2. All students are required to present two seminars; the first usually in the second semester in residence (e.g., proposal topic) and one on the final research project.
3. The research paper will be the equivalent of a research literature review and will be reviewed by the student's committee.

At least 15 hours of coursework must be taken at the 8000 level.

Master of Science in Agricultural Life Sciences with Entomology or Plant Pathology Concentration

Coursework at 8000-level or higher		12
Other graduate-level coursework		10
EPP 8111	Seminar	1
EPP 8121	Seminar	1
EPP 8000	Thesis Research/ Thesis in Entomology and Plant Pathology	6
Total Hours		**30**

Doctor of Philosophy in Life Sciences with Biochemistry Concentration

Baccalaureate Degree to Ph.D.

BCH 6603	General Biochemistry (prerequisite)	3
BCH 6613	General Biochemistry (prerequisite)	3
Select one of the following:		3-4
BCH 6414	Protein Methods	
BCH 6623	Biochemistry of Specialized Tissues	
BCH 8633	Enzymes	
BCH 8654	Intermediary Metabolism [1]	4
or BCH 6804	Molecular Biology Methods	
BCH 8101	Seminar [2]	2
BCH 9000	Dissertation Research/ Dissertation in Biochemistry,Molecular Biology,Entomology and Plant Pathology	20
Enrichment courses [3]		12
Additional graduate-level courses		12-13
Total Hours		**60**

1. Or equivalent BCH or Life Science-related coursework; students completing the split-level BCH core courses at MSU at the 4000-level are exempt from these classes, and other approved courses will be substituted in consultation with the major professor and the student's graduate committee.
2. 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.
3. 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.

This program requires a minimum of 40 credit hours of coursework and at least 20 research hours above the baccalaureate degree (60 hours total) for students entering with only a baccalaureate degree.

Doctor of Philosophy in Life Sciences with Biochemistry Concentration

Master of Science Degree to Ph.D.

BCH 6603	General Biochemistry (prerequisite)	3
BCH 6613	General Biochemistry (prerequisite)	3
Select one of the following:		3-4
BCH 6414	Protein Methods	
BCH 6623	Biochemistry of Specialized Tissues	
BCH 8633	Enzymes	
BCH 8654	Intermediary Metabolism [1]	4
or BCH 6804	Molecular Biology Methods	
BCH 8101	Seminar [2]	2
BCH 9000	Dissertation Research/ Dissertation in Biochemistry,Molecular Biology,Entomology and Plant Pathology	20
Enrichment courses [3]		12
Total Hours		**47**

1. Or equivalent BCH or Life Science-related coursework; students completing the split-level BCH core courses at MSU at the 4000-level are exempt from these classes, and other approved courses will be substituted in consultation with the major professor and the student's graduate committee.
2. 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.
3. 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.

Students entering the program with an M.S. degree have a required minimum of 40 hours past that degree utilizing a combination of coursework and research hours (with a minimum of 20 hours of research/ dissertation).

Doctor of Philosophy in Molecular Biology

Baccalaureate Degree to Ph.D.

BCH 6603	General Biochemistry (prerequisite) [1]	3
BCH 6613	General Biochemistry (prerequisite) [1]	3
Select one of the following: [2]		3-4
BCH 6414	Protein Methods	
BCH 6713	Molecular Biology	
BCH 8643	Molecular Genetics	
BCH 8654	Intermediary Metabolism [2]	4
BCH 8101	Seminar [3]	2
BCH 9000	Dissertation Research/ Dissertation in Biochemistry,Molecular Biology,Entomology and Plant Pathology	30

Enrichment Courses [4]	12
Total Hours	**57-58**

1. Or equivalent.
2. 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.
3. 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.
4. 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 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.

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.

Doctor of Philosophy in Molecular Biology

Master of Science Degree to Ph.D.

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.

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.

Doctor of Philosophy in Life Sciences with Entomology Concentration

EPP 8111	Seminar	1
EPP 8121	Seminar	1
Enrichment courses [1]		12
Additional graduate-level coursework		46
Total Hours		**60**

1. 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.

This program requires 60 credit hours of coursework above the baccalaureate degree.

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.

Doctor of Philosophy in Life Sciences with Plant Pathology Concentration

EPP 8111	Seminar	1
EPP 8121	Seminar	1
Enrichment courses [1]		12
Additional graduate-level coursework		46
Total Hours		**60**

1. 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.

This program requires 60 credit hours of coursework above the baccalaureate degree.

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.

Food Science, Nutrition, and Health Promotion

Department Head: Dr. Reuben Moore, Interim
Graduate Coordinator: Dr. Zee Haque
Herzer Building
Box 9805
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Telephone: 662-325-3200
Fax: 662-325-8728
E-mail: Department Head: r.moore@msstate.edu
E-mail: Graduate Coordinator: zh5@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 graduate coordinator at the address above or visit the departmental website.

Master of Science 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 the Dietetic Internship Program Director, Box 9805, Mississippi State, MS 39762-9805 or visit the departmental website: http://www.fsnhp.msstate.edu/.

Health Promotion Concentration

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

Admission Criteria

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

Provisional Admission

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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.**

Doctor of Philosophy 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 (http://catalog.msstate.edu/graduate/colleges-degree-

programs/agriculture-life-sciences/food-science-nutrition-health-promotion/#hague).

Food Science and Technology Concentration

A student pursing the Ph.D. degree in Food Science, Nutrition and Health Promotion with a concentration in Food Science and Technology selects courses from Food Science, Nutrition and Health Promotion and allied areas such as biochemistry, microbiology, animal and dairy sciences, and other disciplines. Faculty, staff members, and facilities of the cooperating departments are utilized. A Master of Science in Food Technology, Food Science, or related areas will be considered to meet the prerequisites for study towards a doctorate. Students from other disciplines may be required to take leveling courses generally not to exceed 15 semester hours.

Nutrition Concentration

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

Admission Criteria

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

Master's General Requirements

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 must 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 the 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 the committee as part of the examination requirements.

Master of Science in Food, Science, Nutrition and Health Promotion with Food Science and Technology Concentration - Thesis

Graduate-level coursework		24
Biochemistry		
Statistics		
Seminar		
Food Chemistry (FNH 6243) [1]		
Food Microbiology (FNH 6414) [1]		
Food Preservation (FNH 6583) [1]		
FNH 8000	Thesis Research/Thesis in Food Science, Nutrition and Health Promotion	6
Total Hours		**30**

1 Courses required unless taken in the undergraduate program.

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. At least 12 hours of coursework must be taken at the 8000-level.

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.

Master of Science in Food, Science, Nutrition and Health Promotion with Nutrition Concentration - Thesis

BCH XXXX	Two graduate-level Biochemistry courses [1]	6
Graduate-level statistics course [2]		3-4
Other graduate-level coursework		15
FNH 8000	Thesis Research/Thesis in Food Science, Nutrition and Health Promotion	6
Total Hours		**30-31**

1 BCH 6603 is one example of a course that fulfills this requirement.

2 ST 8114, KI 8313, CVM 8143, EPY 6214, and AIS 9583 are examples of courses that fulfill this requirement.

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. At least 12 hours of coursework must be taken at the 8000-level.

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.

Master of Science in Food, Science, Nutrition and Health Promotion with Health Promotion Concentration - Thesis

FNH 8513	Theory and Practice of Health Education	3
FNH 8523	Health Promotion Techniques	3
FNH 8553	Behavioral Epidemiology	3
FNH 8613	Design and Administration of Health Promotion Programs	3
FNH 8653	Implementation and Evaluation of Health Promotion Programs	3
Graduate-level electives		12
FNH 8000	Thesis Research/Thesis in Food Science, Nutrition and Health Promotion	6
Total Hours		**33**

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. At least 12 hours of coursework must be taken at the 8000-level.

A thesis committee, consisting of the student's major professor and two other graduate faculty members, must be established.

Master of Science in Food, Science, Nutrition and Health Promotion with Health Promotion Concentration - Non-Thesis

FNH 8513	Theory and Practice of Health Education	3
FNH 8523	Health Promotion Techniques	3
FNH 8553	Behavioral Epidemiology	3
FNH 8613	Design and Administration of Health Promotion Programs	3
FNH 8653	Implementation and Evaluation of Health Promotion Programs	3
FNH 8563	Principles of Epidemiology and Health Science Research	3
KI 8313	Interpretation of Data in Kinesiology (or equivalent) [1]	3
FNH 8673	Applied Projects for Certified Health Education Specialists [2]	3
Graduate-level electives		9
Total Hours		**33**

1. EPY 6214 is an example of an equivalent course.
2. Designed to help future practitioners develop program assessment, development, implementation and evaluation skills consistent with those required by the Certified Health Education Specialist (CHES) exam and licensure.

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. At least 15 hours of coursework must be taken at the 8000-level.

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.

Doctor of Philosophy General 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.

Doctor of Philosophy in Food Science, Nutrition and Health Promotion, 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).

Doctor of Philosophy in Food Science, Nutrition and Health Promotion, 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.

Genetics

Graduate Coordinator: Dr. Scott Willard, Interim
201 Bost
Box 9760
Mississippi State, MS 39762
Telephone: 662-325-0233
E-mail: swillard@cals.msstate.edu

An Interdisciplinary Curriculum

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 (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 GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 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.

The students planning a major or minor in genetics should select the GNS prefix for each course when applicable.

Master of Science in Agricultural Life Science with Genetics Concentration - Thesis

Graduate-level coursework with at least 12 credits at the 8000-level	24
Thesis	6
Total Hours	**30**

A comprehensive exam in addition to the coursework and thesis is required for completion of this degree.

Master of Science in Agricultural Life Science with Genetics Concentration - Non-Thesis

A comprehensive exam and 30 total hours of coursework are required for the non-thesis degree. with at least 15 hours at the 8000-level. 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.

Doctor of Philosophy in Life Sciences with Genetics Concentration

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.

School of Human Sciences

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

The School of Human Sciences houses two departments, Agricultural & Extension Education and Human Development & Family Studies, and offers a Gerontology Certificate.

Agricultural and Extension Education

Graduate Coordinator: Dr. Kirk Swortzel
214 Lloyd-Ricks-Watson Building
Box 9745
Mississippi State, MS 39762
Telephone: 662-325-7837
E-mail: kirk.swortzel@msstate.edu

The Agricultural Information Science and Education Program in the School of Human Sciences offers graduate programs 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 Science with a concentration in Agricultural and Extension Education

Admission Criteria - Master of Science Degree

To obtain admission to the master's program, the applicant must meet all the general requirements of the Office of the Graduate School. Specifically, an applicant must:

- Meet all MSU Graduate School requirements for admission.
- Complete the Graduate Record Examination (GRE), with scores competitive with other applicants (recommended).
- Have an upper-division undergraduate grade point average of 2.75 (approximately last 60 undergraduate hours).
- Provide the names and e-mail addresses of three individuals who can provide a letter of recommendation. These letters of recommendation will attest to the applicant's academic performance and potential ability to successfully complete gradeuate degree requirements.
- Write a statement of purpose (500-1,000 words) describing the applicant's purpose for undertaking graduate study, including professional plans and career goals.
- International non-native speakers of English must submit TOEFL or IELTS scores indicative of ability to successfully complete graduate work (see International Admission requirements in this catalog).

A student applying to the Master of Science degree in Agricultural and Extension Education in the 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)

Subject	Score
Reading	156
Writing	162
Mathematics	150

Admission Criteria - Doctor of Philosophy

To obtain admission to the master's program, the applicant must meet all the general requirements of the Office of the Graduate School. Specifically, an applicant must:

- Meet all MSU Graduate School requirements for admission.
- Complete the Graduate Record Examination (GRE), with scores competitive with other applicants.
- Have earned a bachelor's, master's, or doctoral degree from an accredited college or university.
- Have at least a 3.00 grade point average on previous graduate coursework.
- Provide the names and e-mail addresses of three individuals who can provide a letter of recommendation. These letters of recommendation will attest to the applicant's academic performance and potential ability to successfully complete gradeuate degree requirements.
- Write a statement of purpose (500-1,000 words) describing the applicant's purpose for undertaking graduate study, including professional plans and career goals.
- International non-native speakers of English must submit TOEFL or IELTS scores indicative of ability to successfully complete graduate work (see International Admission requirements in this catalog).

Provisional Admission

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 Performance

Unsatisfactory performance is defined as 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 will 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 college dean, a student whose academic work is unsatisfactory at any period during a given semester or term will be forced to withdraw from a graduate program. A student forced to withdraw can appeal to the department faculty. If upheld by the faculty, then the student can submit a written appeal to the Director of the School of Human Sciences. If upheld there, the student may appeal to the Dean of the College of Agriculture and Life Sciences. See Academic Dismissal Appeal Procedure in this catalog.

Master of Science in Agricultural and Extension Education with Leadership Concentration - Thesis

Core Courses		
AIS 8803	Applying Research Methods to Agricultural Information Science and Education	3
or AIS 8703	Evaluation of Agricultural Information Science and Education Programs	
AIS 8403	Directing Learning Experience in Agricultural Information Science and Education	3
AIS 8503	Program Planning and Development in Agricultural Information Science and Education	3
AIS 8413	Methods of Planned Change in Agricultural and Extension Education	3
AIS 8801	Graduate Professional Seminar in AIS	1
AIS 8263	Public Relations in Agricultural Information Science and Education	3
or AIS 8203	Advanced Communication in Agricultural Information Science and Education	
Graduate-level electives including a required statistics course		9
Thesis		

AIS 8000	Thesis Research/ Thesis in Agricultural Information Science and Education	6
Total Hours		**31**

Master of Science in Agricultural and Extension Education with Leadership Concentration - Non-Thesis

AIS 8803	Applying Research Methods to Agricultural Information Science and Education	3
or AIS 8703	Evaluation of Agricultural Information Science and Education Programs	
AIS 8403	Directing Learning Experience in Agricultural Information Science and Education	3
AIS 8503	Program Planning and Development in Agricultural Information Science and Education	3
AIS 8413	Methods of Planned Change in Agricultural and Extension Education	3
AIS 8801	Graduate Professional Seminar in AIS	1
AIS 8263	Public Relations in Agricultural Information Science and Education	3
or AIS 8203	Advanced Communication in Agricultural Information Science and Education	
Graduate-level coursework		9
AIS 8100	Creative Component Project in AEE	6
Total Hours		**31**

The remaining courses in the leadership concentration may be a combination of approved electives or those courses to comprise a minor. A faculty member from the minor area should also be a member of the student's graduate committee.

Master of Science in Agricultural and Extension Education with Teaching Concentration - Thesis

EPY 6033	Application of Learning Theories in Educational and Related Settings	3
or AIS 8693	Philosophical Foundations of Agriculture and Extension Education	
EDX 8173	Special Education in the Regular Classroom	3
AIS 8503	Program Planning and Development in Agricultural Information Science and Education	3
AIS 8403	Directing Learning Experience in Agricultural Information Science and Education	3
AIS 6113	Methods of Teaching Agriscience	3
AIS 6403	Development of Youth Programs	3
AIS 8000	Thesis Research/ Thesis in Agricultural Information Science and Education	6
AIS 6703	Experiential Learning Programs in Agriculture	3
AIS 8603	Teaching Internship in AEE I.	3
AIS 8613	Teaching Internship in AEEII	3
AIS 8801	Graduate Professional Seminar in AIS	1
Total Hours		**34**

A student who chooses to complete a thesis must pass a final thesis defense and submit the thesis to complete degree requirements.

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.

Faculty in Agricultural Information Science and Education must approve substitutions for any of the above courses.

Master of Science in Agricultural and Extension Education with Teaching Concentration - Non-Thesis

EPY 6033	Application of Learning Theories in Educational and Related Settings	3
or AIS 8693	Philosophical Foundations of Agriculture and Extension Education	
EDX 8173	Special Education in the Regular Classroom	3
AIS 6113	Methods of Teaching Agriscience	3
AIS 6403	Development of Youth Programs	3
AIS 6703	Experiential Learning Programs in Agriculture	3
AIS 8100	Creative Component Project in AEE	6
AIS 8403	Directing Learning Experience in Agricultural Information Science and Education	3
AIS 8503	Program Planning and Development in Agricultural Information Science and Education	3
AIS 8603	Teaching Internship in AEE I.	3
AIS 8613	Teaching Internship in AEEII	3
AIS 8801	Graduate Professional Seminar in AIS	1
Total Hours		**34**

A student who chooses to complete a Creative Component Project must pass the final defense of the Creative Component and complete an oral comprehensive examination over all coursework completed.

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.

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 enroll in AIS 8603 and AIS 8613 (teaching internship). 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 have a 3.00 GPA after completion of all coursework and internships.

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 and Outreach.

Doctor of Philosophy in Agricultural Sciences, Agricultural and Extension Education Concentration

Agricultural and Extension Education		
AIS 8593	Historical Foundations of Agriculture and Human Science	3
AIS 8693	Philosophical Foundations of Agriculture and Extension Education	3
AIS 8243	Administration and Supervision in Agricultural Information Science and Education	3
AIS 8513	Volunteer Development in Agricultural and Extension Education	3
AIS 8413	Methods of Planned Change in Agricultural and Extension Education	3
Other Agricultural and Extension Education credits		15-21
Statistics, Research, and Evaluation		
AIS 8803	Applying Research Methods to Agricultural Information Science and Education	3
AIS 8703	Evaluation of Agricultural Information Science and Education Programs	3
AIS 9583	Analysis and Interpretation of Data in Ag and Extension Education Research	3
EPY 8214	Advanced Educational and Psychological Statistics	4
EPY 9213	Advanced Analysis in Educational Research	3
Minor or Supporting Area		
Gradulate-level coursework		12-18
Electives		
Graduate-level coursework		0-12
Dissertation		
AIS 9000	Dissertation Research/ Dissertation in Agricultural Information Science and Education	20
Total Hours		**78-102**

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. This 90-hour requirement can be partially met by previous graduate coursework.

Students must pass a written and an oral comprehensive examination in both the major and minor/supporting area. To be eligible for the preliminary/comprehensive examination, a graduate student must have a 3.00 GPA on all graduate courses taken after admission to the degree program. Students must also pass the final dissertation examination. The student's graduate committee supervises the dissertation and examinations.

Gerontology Certificate

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

An Interdisciplinary Program

The graduate-level Gerontology certificate is a multidisciplinary approach to provide students with current factual and theoretical data relating to aging. The program is available both to degree and non-degree graduate students. A certificate is awarded upon the completion of 9 hours of specified coursework, 6 hours of approved electives, and 3 hours of research or directed individual study. For those students earning the certification in conjunction with an advanced degree in such disciplines as sociology, psychology, counseling, etc., the program would also constitute a gerontology concentration within the respective discipline.

For further information, contact Dr. Joe Wilmoth (http://catalog.msstate.edu/graduate/colleges-degree-programs/agriculture-life-sciences/human-sciences/gerontology-certificate/#graduate-coordinator).

Gerontology Certificate

HS 6403	Introduction to Gerontology	3
Directed individual study/readings course in gerontology		1-3
Select three of the following:		9
ABE 6513		
PSY 6983	Psychology of Aging	
PSY 6863		
SO 6413	Aging and Retirement in American Society	
HS 6813	Adult Development: The Middle Years	
COE 6713	Issues in Aging	
COE 8813	Counseling Elderly Clients	
SO 6433	Sociology of Death and Dying	
Total Hours		**13-15**

Human Development and Family Studies

Graduate Coordinator: Dr. Tommy Phillips
201B Lloyd Ricks Watson Building
Box 9745
Mississippi State, MS 39762
Telephone: 662-325-0655

E-mail: tom.phillips@msstate.edu

The School of Human Sciences offers both the Master of Science and the Doctor of Philosophy in Human Development and Family Studies (HDFS). Contact the 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 in Human Development & Family Studies

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 sole-authored writing sample (see instructions below);
- submit a personal statement (500-1,000 words) describing the applicant's purpose for undertaking graduate student, including professional plans, career goals, and detailed research interests.

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

An overall undergraduate grade point average of 3.00 is preferred. Students admitted provisionally must fulfill Graduate School provisional admission requirements found in this publication. Qualified applicants for the HDFS grade program are expected to have interests and goals that are consistent with the department's faculty expertise and interests, as well as course offerings. Admission decisions are based on a holistic consideration of the applicant's credentials.

Instructions for Writing Sample: Applicants to the master's program are asked to submit a sole-authored writing sample in English so that the admissions committee may assess the candidate's ability as a writer, potential success in the masters program, and ability to do research and present it in written form. The minimum length of the sample is five pages, but the same should not exceed 25 pages. The sample should be presented in APA style (title page, headers, references, etc.). Examples of possible writing samples include, but are not limited to, papers from past courses, journal articles, or some written work product, such as a manual or technical report.

Doctor of Philosophy in Human Development & Family Studies

Admission Requirements

An applicant for the Doctor of Philosophy degree must:

- meet all MSU Graduate School requirements for admission;
- have earned a baccalaureate degree in HDFS or a related field;
- have completed the following courses or their equivalents:

AIS 8803	Applying Research Methods to Agricultural Information Science and Education	3
HS 8823	Advanced Theories of Human Development and Family Relations	3
Graduate-level Statistics		3
HS 8813	Seminar in Human Development and Family Studies	3

- meet all MSU Graduate School requirements for admission;
- have earned a baccalaureate degree in HDFS or a related field;
- have completed a minimum of 30 hours of master's level coursework in HDFS or a related field;
- have completed the following courses or their equivalents: AIS 8803 Research Methods; HS 8823 Advanced Theories of Human Development and Family Relations; 3 hours of graduate-level statistics; and HS 8813 Seminar in HDFS (contingent acceptance may be granted for students to complete requires courses within one calendar year);
- have earned a grade point average of 3.00 on all previous graduate coursework;
- submit a Graduate Record Examination (GRE) score competitive with other applicants;
- submit three letters of recommendation, with at least two of the letters coming from individuals familiar with the applicant’s academic work;
- submit a sole-authored writing sample (see instructions below);
- submit a personal statement (500-1,000 words) describing the applicant’s purpose for undertaking graduate study, professional plans, career goals, and detailed research interests;
- complete an interview with members of the HDFS graduate faculty.

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

Qualified applicants for the HDFS graduate program are expected to have interests and goals that are consistent with the department's faculty expertise and interests as well as course offerings. Once all application materials have been submitted, applicants should contact the HDFS graduate coordinator at 662-325-0655 or tom.phillips@msstate.edu to schedule an interview with members of the HDFS graduate faculty. To accommodate international applicants, interviews can be conducted using distance technology. Admission decisions are based on a holistic consideration of the applicant's credentials.

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

Instructions for Writing Sample: Applicants to the doctoral program are required to submit a sole-authored writing sample in English so that the admissions committee may assess the candidate's ability as a writer, potential success in the doctoral program, and ability to do research and present it in written form. The minimum length of the writing sample is five pages, but the sample should not exceed 25 pages. The sample should be presented in APA style (title page, headers, references, etc.).

Examples of possible writing samples include, but are not limited to, papers from past courses, journal articles, or some written work product, such as a manual or technical report.

Master of Science in Human Development & Family Studies (Infant and Child Focus) - Thesis

Requirements		
HS 8813	Seminar in Human Development and Family Studies	3
HS 8823	Advanced Theories of Human Development and Family Relations	3
EPY 6214	Educational and Psychological Statistics	4
AIS 8803	Applying Research Methods to Agricultural Information Science and Education	3
AIS 8503	Program Planning and Development in Agricultural Information Science and Education	3
HS 8000	Thesis Research/ Thesis in Human Sciences	6
Focus Courses		
HS 8113	Trends in Infant and Child Development	3
Select 6 hours from the following:		6
HS 6883	Risk, Resilience and Preventive Interventions	
COE 8913	Counseling Children	
EDE 9420	Research Practicum in Early Childhood Education	
EPY 8293	Cognitive Development	
HS 6823	Development and Administration of Child Service Programs	
PSY 6713	Language and Thought	
EDX 6353	Assistive Technology in Special Education	
Total Hours		**31**

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.

Master of Science in Human Development & Family Studies (Infant and Child Focus) - Non-Thesis

Requirements		
HS 8813	Seminar in Human Development and Family Studies	3
HS 8823	Advanced Theories of Human Development and Family Relations	3
EPY 6214	Educational and Psychological Statistics	4
AIS 8703	Evaluation of Agricultural Information Science and Education Programs	3
AIS 8503	Program Planning and Development in Agricultural Information Science and Education	3
HS 7000	Directed Individual Study in Human Sciences	6
Focus Courses		
HS 8113	Trends in Infant and Child Development	3
Select 6 hours from the following:		6
HS 6883	Risk, Resilience and Preventive Interventions	
COE 8913	Counseling Children	
EDE 9420	Research Practicum in Early Childhood Education	
EPY 8293	Cognitive Development	
HS 6823	Development and Administration of Child Service Programs	
PSY 6713	Language and Thought	
EDX 6353	Assistive Technology in Special Education	
Total Hours		**31**

The student's major professor and two other graduate faculty members will comprise the graduate committee. A final comprehensive oral examination is required.

Master of Science in Human Development & Family Studies (Youth Focus) - Thesis

Requirements		
HS 8813	Seminar in Human Development and Family Studies	3
HS 8823	Advanced Theories of Human Development and Family Relations	3
EPY 6214	Educational and Psychological Statistics	4
AIS 8803	Applying Research Methods to Agricultural Information Science and Education	3
AIS 8503	Program Planning and Development in Agricultural Information Science and Education	3
HS 8000	Thesis Research/ Thesis in Human Sciences	6
Focus Courses		
HS 8313	Contemporary Youth Issues	3
Select 6 hours from the following:		6
HS 6883	Risk, Resilience and Preventive Interventions	
HS 6873	Positive Youth Development	
SO 6233	Juvenile Delinquency	
SO 6333	Sociology of Sport	
AIS 6403	Development of Youth Programs	
Great Plains Consortium courses [1]		
Total Hours		**31**

[1] http://www.gpidea.org. See Transfer Credit in General Master's Degree Requirements section of this publication.

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.

Master of Science in Human Development & Family Studies (Youth Focus) - Non-Thesis

Requirements		
HS 8813	Seminar in Human Development and Family Studies	3
HS 8823	Advanced Theories of Human Development and Family Relations	3
EPY 6214	Educational and Psychological Statistics	4
AIS 8703	Evaluation of Agricultural Information Science and Education Programs	3

AIS 8503	Program Planning and Development in Agricultural Information Science and Education	3
HS 7000	Directed Individual Study in Human Sciences	6
Focus Courses		
HS 8313	Contemporary Youth Issues	3
Select 6 hours from the following:		6
HS 6883	Risk, Resilience and Preventive Interventions	
HS 6873	Positive Youth Development	
SO 6233	Juvenile Delinquency	
SO 6333	Sociology of Sport	
AIS 6403	Development of Youth Programs	
Great Plains Consortium courses [1]		
Total Hours		**31**

The student's major professor and two other graduate faculty members will comprise the graduate committee. A final comprehensive oral examination is required.

Master of Science in Human Development & Family Studies (Family Focus) - Thesis

Requirements		
HS 8813	Seminar in Human Development and Family Studies	3
HS 8823	Advanced Theories of Human Development and Family Relations	3
EPY 6214	Educational and Psychological Statistics	4
AIS 8803	Applying Research Methods to Agricultural Information Science and Education	3
AIS 8503	Program Planning and Development in Agricultural Information Science and Education	3
HS 8000	Thesis Research/ Thesis in Human Sciences	6
Focus Courses		
HS 8413	Issues in Family Studies	3
Select 6 hours from the following:		6
HS 8423	Development in Intimate Relationships	
COE 8303	Family Counseling Theory	
HS 6313	Family Resource Management	
HS 6333	Families, Legislation and Public Policy	
HS 6403	Introduction to Gerontology	
HS 6803	Parenting	
HS 6813	Adult Development: The Middle Years	
HS 6843	Family Interaction	
HS 6853	The Family: A Human Ecological Perspective	
HS 6883	Risk, Resilience and Preventive Interventions	
SO 6223	Comparative Family Systems	
Total Hours		**31**

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.

Master of Science in Human Development & Family Studies (Family Focus) - Non-Thesis

Requirements		
HS 8813	Seminar in Human Development and Family Studies	3
HS 8823	Advanced Theories of Human Development and Family Relations	3
EPY 6214	Educational and Psychological Statistics	4
AIS 8703	Evaluation of Agricultural Information Science and Education Programs	3
AIS 8503	Program Planning and Development in Agricultural Information Science and Education	3
HS 7000	Directed Individual Study in Human Sciences	6
Focus Courses		
HS 8413	Issues in Family Studies	3
Select 6 hours from the following:		6
HS 8413	Issues in Family Studies	
HS 8423	Development in Intimate Relationships	
COE 8303	Family Counseling Theory	
HS 6313	Family Resource Management	
HS 6333	Families, Legislation and Public Policy	
HS 6403	Introduction to Gerontology	
HS 6803	Parenting	
HS 6813	Adult Development: The Middle Years	
HS 6843	Family Interaction	
HS 6853	The Family: A Human Ecological Perspective	
SO 6223	Comparative Family Systems	
Total Hours		**31**

The student's major professor and two other graduate faculty members will comprise the graduate committee. A final comprehensive oral examination is required.

Master of Science in Human Development & Family Studies (Family Resource Management Focus) - Thesis

Requirements		
HS 8813	Seminar in Human Development and Family Studies	3
HS 8823	Advanced Theories of Human Development and Family Relations	3
EPY 6214	Educational and Psychological Statistics	4
AIS 8803	Applying Research Methods to Agricultural Information Science and Education	3
AIS 8503	Program Planning and Development in Agricultural Information Science and Education	3
HS 8000	Thesis Research/ Thesis in Human Sciences	6
Focus Courses		
HS 6313	Family Resource Management	3
Select 6 hours from the following:		6
HS 6333	Families, Legislation and Public Policy	
HS 6863	Consumer Aspects of Aging	

HS 6323	Consumer Issues and Policy	
HS 6683	Current Housing Problems of Families	
Great Plains Consortium courses [1]		
Total Hours		**31**

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.

Master of Science in Human Development & Family Studies (Family Resource Management Focus) - Non-Thesis

Requirements		
HS 8813	Seminar in Human Development and Family Studies	3
HS 8823	Advanced Theories of Human Development and Family Relations	3
EPY 6214	Educational and Psychological Statistics	4
AIS 8703	Evaluation of Agricultural Information Science and Education Programs	3
AIS 8503	Program Planning and Development in Agricultural Information Science and Education	3
HS 7000	Directed Individual Study in Human Sciences	6
Focus Courses		
HS 6313	Family Resource Management	3
Select 6 hours from the following:		6
HS 6333	Families, Legislation and Public Policy	
HS 6863	Consumer Aspects of Aging	
HS 6323	Consumer Issues and Policy	
HS 6683	Current Housing Problems of Families	
Great Plains Consortium courses [1]		
Total Hours		**31**

The student's major professor and two other graduate faculty members will comprise the graduate committee. A final comprehensive oral examination is required.

Master of Science in Human Development & Family Studies (Gerontology Focus) - Thesis

Requirements		
HS 8813	Seminar in Human Development and Family Studies	3
HS 8823	Advanced Theories of Human Development and Family Relations	3
EPY 6214	Educational and Psychological Statistics	4
AIS 8803	Applying Research Methods to Agricultural Information Science and Education	3
AIS 8503	Program Planning and Development in Agricultural Information Science and Education	3
HS 8000	Thesis Research/ Thesis in Human Sciences	6
Focus Courses		
HS 6403	Introduction to Gerontology	3
Select 6 hours from the following:		6
PSY 6983	Psychology of Aging	
HS 6863	Consumer Aspects of Aging	
SO 6413	Aging and Retirement in American Society	
COE 6713	Issues in Aging	
COE 8813	Counseling Elderly Clients	
SO 6433	Sociology of Death and Dying	
Total Hours		**31**

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.

Master of Science in Human Development & Family Studies (Gerontology Focus) - Non-Thesis

Requirements		
HS 8813	Seminar in Human Development and Family Studies	3
HS 8823	Advanced Theories of Human Development and Family Relations	3
EPY 6214	Educational and Psychological Statistics	4
AIS 8703	Evaluation of Agricultural Information Science and Education Programs	3
AIS 8503	Program Planning and Development in Agricultural Information Science and Education	3
HS 7000	Directed Individual Study in Human Sciences	6
Focus Courses		
HS 6403	Introduction to Gerontology	3
Select 6 hours from the following:		6
PSY 6983	Psychology of Aging	
HS 6863	Consumer Aspects of Aging	
SO 6413	Aging and Retirement in American Society	
COE 6713	Issues in Aging	
COE 8813	Counseling Elderly Clients	
SO 6433	Sociology of Death and Dying	
Total Hours		**31**

The student's major professor and two other graduate faculty members will comprise the graduate committee. A final comprehensive oral examination is required.

Note: Courses may be substituted depending on student interest area and course availability. Advisor approval will be required in advance. At least 12 hours in the degree program, exclusive of thesis credits, must be at the 8000 level. Approved HS 7000 Directed Individual Study (DIS) credit hours count toward 8000-level requirements. No more than 6 semester hours of graduate credit may be earned in DIS courses. Students may transfer up to 6 semester hours of courses from other accredited degree programs.

Doctor of Philosophy in Human Development & Family Studies (Infant and Child Focus)

Requirements		
EPY 8214	Advanced Educational and Psychological Statistics	4
AIS 8703	Evaluation of Agricultural Information Science and Education Programs	3
EPY 9213	Advanced Analysis in Educational Research	3
or AIS 9583	Analysis and Interpretation of Data in Ag and Extension Education Research	
Statistics course		3
HS 8833	Foundations of Human Development and Family Studies	3
AIS 8523	Teaching Out-of-School Groups in Agricultural Information Science and Education	3
HS 6843	Family Interaction	3
HS 8853	Current Issues in Human Development and Family Studies	3
HS 9000	Dissertation Research /Dissertation in Human Sciences	20
Focus Courses		
HS 8113	Trends in Infant and Child Development	3
Select 12 additional hours from the following:		12
HS 6883	Risk, Resilience and Preventive Interventions	
COE 8913	Counseling Children	
EDE 9420	Research Practicum in Early Childhood Education	
EPY 8293	Cognitive Development	
HS 6823	Development and Administration of Child Service Programs	
PSY 6713	Language and Thought	
EDX 6353	Assistive Technology in Special Education	
Total Hours		**60**

The student must pass a written comprehensive exam prior to being admitted to candidacy. A dissertation committee, consisting of the student's major professor and three other graduate faculty members, must be established. A dissertation defense before the committee is required.

Doctor of Philosophy in Human Development & Family Studies (Youth Focus)

Requirements		
EPY 8214	Advanced Educational and Psychological Statistics	4
AIS 8703	Evaluation of Agricultural Information Science and Education Programs	3
EPY 9213	Advanced Analysis in Educational Research	3
or AIS 9583	Analysis and Interpretation of Data in Ag and Extension Education Research	
Statistics course		3
HS 8833	Foundations of Human Development and Family Studies	3
AIS 8523	Teaching Out-of-School Groups in Agricultural Information Science and Education	3
HS 6843	Family Interaction	3
HS 8853	Current Issues in Human Development and Family Studies	3
HS 9000	Dissertation Research /Dissertation in Human Sciences	20
Focus Courses		
HS 8313	Contemporary Youth Issues	3
Select 12 additional hours from the following:		12
HS 6883	Risk, Resilience and Preventive Interventions	
HS 6873	Positive Youth Development	
SO 6233	Juvenile Delinquency	
SO 6333	Sociology of Sport	
AIS 6403	Development of Youth Programs	
Total Hours		**60**

The student must pass a written comprehensive exam prior to being admitted to candidacy. A dissertation committee, consisting of the student's major professor and three other graduate faculty members, must be established. A dissertation defense before the committee is required.

Doctor of Philosophy in Human Development & Family Studies (Family Focus)

Requirements		
EPY 8214	Advanced Educational and Psychological Statistics	4
AIS 8703	Evaluation of Agricultural Information Science and Education Programs	3
EPY 9213	Advanced Analysis in Educational Research	3
or AIS 9583	Analysis and Interpretation of Data in Ag and Extension Education Research	
Statistics course		3
HS 8833	Foundations of Human Development and Family Studies	3
AIS 8523	Teaching Out-of-School Groups in Agricultural Information Science and Education	3
HS 6843	Family Interaction	3
HS 8853	Current Issues in Human Development and Family Studies	3
HS 9000	Dissertation Research /Dissertation in Human Sciences	20
Focus Courses		
HS 8413	Issues in Family Studies	3
Select 12 hours from the following:		12
HS 8423	Development in Intimate Relationships	
COE 8303	Family Counseling Theory	
HS 6313	Family Resource Management	
HS 6333	Families, Legislation and Public Policy	
HS 6403	Introduction to Gerontology	
HS 6803	Parenting	
HS 6813	Adult Development: The Middle Years	
HS 6853	The Family: A Human Ecological Perspective	
HS 6883	Risk, Resilience and Preventive Interventions	

SO 6223	Comparative Family Systems	
Total Hours		**60**

The student must pass a written comprehensive exam prior to being admitted to candidacy. A dissertation committee, consisting of the student's major professor and three other graduate faculty members, must be established. A dissertation defense before the committee is required.

Doctor of Philosophy in Human Development & Family Studies (Family Resource Management Focus)

Requirements		
EPY 8214	Advanced Educational and Psychological Statistics	4
AIS 8703	Evaluation of Agricultural Information Science and Education Programs	3
EPY 9213	Advanced Analysis in Educational Research	3
or AIS 9583	Analysis and Interpretation of Data in Ag and Extension Education Research	
Statistics course		3
HS 8833	Foundations of Human Development and Family Studies	3
AIS 8523	Teaching Out-of-School Groups in Agricultural Information Science and Education	3
HS 6843	Family Interaction	3
HS 8853	Current Issues in Human Development and Family Studies	3
HS 9000	Dissertation Research /Dissertation in Human Sciences	20
Focus Courses		
HS 6313	Family Resource Management	3
Select 12 hours from the following:		12
HS 6333	Families, Legislation and Public Policy	
HS 6863	Consumer Aspects of Aging	
HS 6323	Consumer Issues and Policy	
HS 6683	Current Housing Problems of Families	
Courses from Great Plains Consortium [2]		
Total Hours		**60**

The student must pass a written comprehensive exam prior to being admitted to candidacy. A dissertation committee, consisting of the student's major professor and three other graduate faculty members, must be established. A dissertation defense before the committee is required.

Doctor of Philosophy in Human Development & Family Studies (Gerontology Focus)

Requirements		
EPY 8214	Advanced Educational and Psychological Statistics	4
AIS 8703	Evaluation of Agricultural Information Science and Education Programs	3
EPY 9213	Advanced Analysis in Educational Research	3
or AIS 9583	Analysis and Interpretation of Data in Ag and Extension Education Research	
Statistics course		3
HS 8833	Foundations of Human Development and Family Studies	3
AIS 8523	Teaching Out-of-School Groups in Agricultural Information Science and Education	3
HS 6843	Family Interaction	3
HS 8853	Current Issues in Human Development and Family Studies	3
HS 9000	Dissertation Research /Dissertation in Human Sciences	20
Focus Courses		
HS 6403	Introduction to Gerontology	3
Select 12 hours from the following:		12
PSY 6983	Psychology of Aging	
HS 6863	Consumer Aspects of Aging	
SO 6413	Aging and Retirement in American Society	
COE 6713	Issues in Aging	
COE 8813	Counseling Elderly Clients	
SO 6433	Sociology of Death and Dying	
Total Hours		**60**

The student must pass a written comprehensive exam prior to being admitted to candidacy. A dissertation committee, consisting of the student's major professor and three other graduate faculty members, must be established. A dissertation defense before the committee is required.

Note: Courses may be substituted depending on student interest area and course availability. Major professor approval will be required in advance. At least 12 hours of the course work in the degree program exclusive of dissertation credits, must be at the 8000 level. No more than 6 semester hours of graduate credit may be earned in Directed Individual Study courses. Students may transfer up to 9 semester hours of courses from other accredited degree programs.

The School of Human Sciences graduate courses may be used for a minor or for selected certificates in Human Sciences in cooperation with other degree programs. Areas of emphasis are available in the following program areas in Human Sciences: apparel, textiles and merchandising, and human development and family studies. The School also participates in the graduate Gender Studies Certificate by offering HS 6313, HS 6403, and HS 6513 and the Gerontology Certificate by offering HS 6403, HS 6813, and HS 6863.

For additional information about graduate offerings in the School of Human Sciences, contact Dr. Tommy Phillips.

Landscape Architecture

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

Graduate study leading to a Master of Landscape Architecture degree is offered in the Department of Landscape Architecture; thesis and non-thesis options are available. Students in the program have the opportunity to work with faculty on a wide range of research and design topics within the profession of landscape architecture. Special program emphasis is placed on watershed planning, landscape management, and community planning and design. The design studio courses broadly consider landscape issues related to water, health, and habitat in an effort to achieve the department's mission of "…fostering the will and ability to plan, design, build and manage regenerative communities."

Admission

The applicant to the M.L.A. program should have a minimum GPA of 2.80 on a 4.00 scale. A student without a bachelor's degree in landscape architecture from an accredited program may undertake the M.L.A. as a first professional degree but is required to undertake additional "leveling" coursework to ensure competency in the field; this typically requires an additional year of study. Submission of Graduate Record Examination (GRE) scores is recommended but not required. The applicant's submission should include a letter of interest that includes a written statement (no more than 1500 words) explaining his or her interest in pursuing graduate studies in landscape architecture at Mississippi State University. Three letters of recommendation from individuals familiar with the applicant's academic work, motivation, and character should accompany the application. The applicant should also submit a detailed résumé. Applicants with degrees from allied fields (such as architecture or civil engineering) should submit a portfolio if they wish to be considered for course reductions during the leveling year. Contact the department's graduate coordinator for more information.

Master of Landscape Architecture - Thesis

Core Courses		
LA 6113	Design Theory and Criticism	3
LA 8513	Landscape Architecture Graduate Studio I	3
LA 8711	Seminar in Watershed Planning and Management	1
LA 8523	Landscape Architecture Graduate Studio II	3
LA 8721	Seminar in Landscape Management	1
LA 8533	Landscape Architecture Graduate Studio III	3
LA 8731	Seminar in Community Based Planning	1
LA 8741	Proposal Writing Seminar	1
LA 8751	Seminar in Contemporary Design Issues	1
LA 8613	Research Methods in Landscape Architecture	3
Approved Graduate-level Elective		3
Other Requirements		
LA 8000	Thesis Research/ Thesis in Landscape Architecture	6
Select one of the following:		4
ST 8114	Statistical Methods	
SO 8274	Graduate Social Statistics I	
Total Hours		**33**

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.

Master of Landscape Architecture - Non-Thesis

Core Courses		
LA 6113	Design Theory and Criticism	3
LA 8513	Landscape Architecture Graduate Studio I	3
LA 8711	Seminar in Watershed Planning and Management	1
LA 8523	Landscape Architecture Graduate Studio II	3
LA 8721	Seminar in Landscape Management	1
LA 8533	Landscape Architecture Graduate Studio III	3
LA 8731	Seminar in Community Based Planning	1
LA 8741	Proposal Writing Seminar	1
LA 8751	Seminar in Contemporary Design Issues	1
LA 8613	Research Methods in Landscape Architecture	3
Graduate-level Elective		3
Other Requirements		
LA 6124	Landscape Architecture Construction V: Construction Documents	4
LA 6443	Exterior Design-Build Studio	3
LA 8514		4
LA 8545	LA Studio IV-Case Study [1]	5
Total Hours		**39**

[1] Non-thesis student must have a signed proposal prior to entering LA 8545. The proposal must include the course instructor and one additional graduate faculty member from the department who will serve as an advisor.

Plant and Soil Sciences

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

Graduate study offered in the Department of Plant and Soil Sciences leads to the Master of Science in Agriculture degree with concentrations in Agronomy, Horticulture, or Weed Science and also to the Doctor of Philosophy degree in Agricultural Science with a concentration in Agronomy, Horticulture, or Weed Science. The department has an extensive research program which provides a diversity of problems for thesis and dissertation research under the supervision of experienced and highly trained scientists. The Department of Plant and Soil Science offers graduate programs in Plant Breeding and Genetics, Molecular Biology, Crop Modeling, Agronomy, Soil Science, Crop Physiology, Weed Science, Turfgrass Science, Remote Sensing, and Horticulture.

Graduate programs are designed to develop skills in research techniques in reference to the individual needs of each student. This program is developed and administered by a departmental committee within the student's area of specialization and may include courses in mathematics and statistics, biology, chemistry, biochemistry, remote sensing,

etc., as well as agronomic, horticultural, and weed science courses. Graduate assistantships are provided, subject to availability of funds. An undergraduate grade average of B or better is required to be eligible for an assistantship. Requests for additional information should be addressed to:

Department Head
Plant and Soil Sciences
Box 9555
Mississippi State, MS 39762

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

Departmental Admission Criteria

M.S. in Agriculture and Ph.D. in Agricultural Science with concentrations in Agronomy, Horticulture, or Weed Science:

- GPA—
  For Master of Science: Agronomy 2.75; Horticulture 2.75; Weed Science 3.00.
  For Doctor of Philosophy: Agronomy 3.00; Horticulture 3.00; Weed Science 3.25 on graduate work
- TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing Systems) score—
  Agronomy: TOEFL score of 500 PBT (61 iBT) or IELTS score of 5.5
  Horticulture: TOEFL score of 500 PBT (61 iBT) or IELTS score of 5.5
  Weed Science: TOEFL score of 550 PBT (79 iBT) or IELTS score of 6.5
- GRE—All graduate programs require submission of GRE scores.
- A non-thesis M.S. does not qualify toward admission to a Ph.D. program in the Department of Plant and Soil Sciences at Mississippi State University.

Requirements for entrance into the combined B.S./M.S. program in Agronomy, Horticulture, or Weed Science are:

1. a GPA of 3.50 or higher for all undergraduate work;
2. submission of a standard application for graduate studies in the Department of Plant and Soil Sciences;
3. three letters of recommendation from individuals familiar with the applicant's academic performance;
4. submission of scores from the Graduate Record Examination (GRE) General Test prior to enrolling in graduate courses, and
5. a statement of professional interests and goals from the applicant, including specification of one or more potential major professors.

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

Once the student is accepted into the combined program, the student and the advisor may select up to 9 hours that will satisfy both undergraduate and graduate requirements. These courses may be split-level (i.e., 4000-6000 level) or 8000 level classes, and the student should take the courses for graduate credit (i.e., 6000-level or higher). To do so, he/she must submit a completed form to the Office of the Graduate School requesting such permission: http://www.grad.msstate.edu/forms/pdf_forms/undergraduate_request_to_enroll_in_graduate_course.pdf. The OGS will notify the student by MSU email when the request is approved. The combination of undergraduate and graduate credit hours may not exceed 16 hours within a semester. After successfully completing the graduate-level classes, the student and undergraduate advisor will submit a request to the Registrar's Office to grant credit for the course also at the undergraduate level with the same grade awarded as received for the graduate course. In the case of a split-level class, the transcript will show credit for both the 4000- and 6000-level on the transcript. In the case of an 8000-level class, a special topics undergraduate course of the same title will be entered on the transcript to allow dual credit.

Students are permitted to opt out of the combined program at any time, at which point they could complete only the undergraduate portion of the program. No additional dual counting of courses would occur after the student leaves the combined program.

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

Provisional Admission

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 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.

Master of Science in Agriculture with Agronomy Concentration - Thesis

Graduate-level coursework	12
8000-level coursework	12
Research/thesis	6
Total Hours	**30**

A thesis defense is required. An exit seminar describing thesis research is also required.

Master of Science in Agriculture with Agronomy Concentration - Non-Thesis

Graduate-level coursework		12
8000-level coursework		15
PSS 7000	Directed Individual Study in Plant and Soil Sciences	3
Total Hours		**30**

The student must develop a research paper approved by the student's graduate committee. An oral comprehensive exam is required.

Doctor of Philosophy in Agricultural Science with Agronomy Concentration

PSS 9000	Dissertation Research /Dissertation in Plant and Soil Sciences	20
PSS 8811	Seminar [1]	1
PSS 8831	Seminar [2]	1
Total Hours		**22**

1. To be done in the early stages will present the research proposal and include a review of relevant literature.
2. Exit seminar will describe the dissertation research.

Agronomy Concentration Prerequisite and Core Courses

As specified by the student's major professor and graduate committee.

Master of Science in Agriculture with Horticulture Concentration - Thesis

ST 8114	Statistical Methods	4
PSS 8811	Seminar	1
Graduate-level coursework		7
8000-level coursework		12
Research/thesis		6
Total Hours		**30**

A thesis defense is required. An exit seminar describing thesis research is also required.

Master of Science in Agriculture with Horticulture Concentration - Non-Thesis

ST 8114	Statistical Methods	4
PSS 8811	Seminar	1
Graduate-level coursework		7
8000-level coursework		15
PSS 7000	Directed Individual Study in Plant and Soil Sciences	3
Total Hours		**30**

The student must develop a research paper approved by the student's graduate committee. An oral examination, a written examination, or both are required.

Doctor of Philosophy in Agricultural Science with Horticulture Concentration

PSS 9000	Dissertation Research /Dissertation in Plant and Soil Sciences	20
PSS 8811	Seminar [1]	1
PSS 8831	Seminar [2]	1
BCH 6603	General Biochemistry	3
ST 8214	Design and Analysis of Experiments	4
Graduate-level PSS coursework approved by advisor		21
Total Hours		**50**

1. To be done in the early stages will present the research proposal and include a review of relevant literature.
2. Exit seminar will describe the dissertation research.

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.

Horticulture Concentration Prerequisite and Core Courses

As stipulated by the major professor, the departmental graduate coordinator, and the dean.

Horticulture (Floral Management) Minor

PSS 6013	Principles of Floral Design	3
PSS 6023	Floral Management	3
PSS 6033	Case Studies in Floral Management	3
PSS 6043	International Horticulture	3
Total Hours		**12**

The graduate minor is available for graduate students seeking training in this field to complement their graduate degree. Students seeking the minor are required to complete the 12-hour program. The student's graduate committee must include a minor committee member from the Department of Plant and Soil Sciences.

Master of Science in Agriculture with Weed Science Concentration

Graduate-level coursework	12
8000-level coursework	12
Research/thesis	6
Total Hours	**30**

An oral thesis defense is required. An exit seminar describing thesis research is also required.

Doctor of Philosophy in Agricultural Science with Weed Science Concentration

PSS 9000	Dissertation Research /Dissertation in Plant and Soil Sciences	20
PSS 8811	Seminar [1]	1
PSS 8831	Seminar [2]	1
Total Hours		**22**

1. To be done in the early stages will present the research proposal and include a review of relevant literature.
2. Exit seminar will describe the dissertation research.

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. Original research, a dissertation, a preliminary exam and an oral defense are required.

Weed Science Concentration Prerequisite and Core Courses

As specified by the student's major professor and graduate committee.

Poultry Science

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

The Poultry Science Department offers the Master of Science degree in Agriculture with a concentration in Poultry Science and the Doctor of Philosophy 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.

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

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 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.
- The student must have a final GPA of 3.00 or higher to graduate.
- **Doctoral students only:** To be eligible for the preliminary/ comprehensive examination, a graduate student must maintain an overall B average in all graduate courses attempted.

Master of Science in Agriculture with Poultry Science Concentration - Thesis

Graduate-level coursework		12
8000-level coursework		12
PO 8000	Thesis Research/ Thesis in Poultry Sciences	6
Total Hours		**30**

A comprehensive examination is required. 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.

Master of Science in Agriculture with Poultry Science Concentration - Non-Thesis

Graduate-level coursework	15
8000-level coursework	15
Total Hours	**30**

A comprehensive examination is required. 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.

Completion Requirements

Requirements for completion of the M.S. in Poultry Science are the same as those for CALS except that students in Poultry Science are required to participate in a limited teaching capacity, such as a guest lecturer, in one course during work on the degree. That limited teaching capacity will be determined by the student's graduate committee when the student's program of study is established. For additional information, email Dr. Chris McDaniel at cmcdaniel@poultry.msstate.edu.

Doctor of Philosophy in Agricultural Sciences with Poultry Science Concentration

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. A minimum of 20 hours of PO 9000 Dissertation/ Research is required in addition to coursework determined by the student and major professor.

Course requirements may include:

BCH 6603	General Biochemistry	3
BCH 6613	General Biochemistry	3
ST 8114	Statistical Methods	4
ST 8214	Design and Analysis of Experiments	4

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.

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.

College of Architecture, Art, and Design

Dean: Prof. James L. West
Associate Dean: Dr. Greg G. Hall

240 Giles Hall
Telephone: 662-325-2202
Fax: 662-325-8872
Mailing Address: 899 Collegeview Street, Box AQ
Mississippi State, MS 39762
E-mail: jwest (jwest@caad.msstate.edu)@caad.msstate.edu (dlewis@caad.msstate.edu)
Website: http://www.caad.msstate.edu

School of Architecture

Director: Prof. Michael Berk
240 Giles Hall
899 Collegeview St., Box AQ
Mississippi State, MS 39762
Telephone: 662-325-2202
E-mail: jwest@caad.msstate.edu (dlewis@caad.msstate.edu)

The School of Architecture offers a Certificate Program in Public Design through the Gulf Coast Community Design Studio in Biloxi, MS.

Certificate in Public Design

ARC 6813	Public Design Seminar I	3
ARC 6853	Public Practice and Projects I	3
ARC 6823	Public Design Seminar II (ARC 6813)	3
ARC 6863	Public Practice and Projects II (ARC 6853)	3
ARC 6833	Public Design Seminar III (ARC 6823)	3
ARC 6873	Public Practice and Projects III (ARC 6863)	3
Total Hours		**18**

The Certificate of Public Design will be granted upon the successful completion of the above sequence of courses.

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

College of Arts and Sciences

Dean: Dr. Greg Dunaway
Associate Dean for Academic Affairs & Student Services: Dr. Rick Travis
208 Allen Hall
Box AS
Mississippi State, MS 39762
Telephone: 662-325-2646
Fax: 662-325-8740
Website: http://www.cas.msstate.edu
E-mail: simone@deanas.msstate.edu

Degree and Certificate Programs

Department	Degree and Major	Concentration	Thesis	Non-Thesis	Starkville	Meridian	Distance
Anthropology and Middle Eastern Cultures	Master of Arts - Applied Anthropology		X		X		
Biological Sciences	Master of Science - Biological Sciences		X		X		
Biological Sciences	Master of Science - General Biology			X			X
Biological Sciences	Doctor of Philosophy - Biological Sciences				X		
Chemistry	Master of Sciences - Chemistry		X		X		
Chemistry	Doctor of Philosophy - Chemistry				X		
Classical & Modern Languages and Literatures	Master of Arts - Foreign Language		X	X	X		
English	Master of Arts - English		X	X	X		
English	Teaching of English to Speakers of Other Languages (TESOL) Certificate						
Geosciences	Master of Science - Geoscience	Broadcast Meteorology		X	X		
Geosciences	Master of Science - Geoscience	Professional Meteorology	X		X		
Geosciences	Master of Science - Geoscience	Geology	X		X		
Geosciences	Master of Science - Geoscience	Geography	X		X		
Geosciences	Master of Sciences - Geoscience	Geospatial Sciences	X		X		
Geosciences	Master of Science - Geoscience	Environmental Geosciences	X		X		

Geosciences	Master of Science - Geoscience	Teachers in Geosciences			X			X
Geosciences	Master of Science - Geoscience	Applied Meteorology			X			X
Geosciences	Doctor of Philosophy - Earth and Atmospheric Science					X		
History	Master of Arts - History		X		X	X		
History	Doctor of Philosophy - History					X		
History	Diversity Certificate							
Mathematics & Statistics	Master of Science - Mathematics		X		X	X		
Mathematics & Statistics	Master of Science - Statistics		X		X	X		
Mathematics & Statistics	Doctor of Philosophy - Mathematical Sciences					X		
Physics and Astronomy	Master of Science - Physics		X		X	X		
Physics and Astronomy	Doctor of Philosophy - Physics[1]					X		
Political Science and Public Administration	Master of Arts - Political Science		X		X	X		
Political Science and Public Administration	Master of Public Policy and Administration - Public Policy and Administration				X	X		
Political Science and Public Administration	Doctor of Philosophy - Public Policy and Administration					X		
Psychology	Master of Science - Psychology		X			X		
Psychology	Doctor of Philosophy - Applied Psychology	Applied Cognitive Science				X		
Psychology	Doctor of Philosophy - Applied Psychology	Clinical Psychology				X		
Sociology	Master of Science - Sociology		X		X	X		
Sociology	Doctor of Philosophy - Sociology					X		
Sociology	Gender Studies Certificate							

[1] The Doctor of Philosophy in Engineering with a concentration in Applied Physics is awarded through the Bagley College of Engineering.

Anthropology and Middle Eastern Cultures

Department Head: Dr. Michael Galaty
Graduate Coordinator: Dr. David Hoffman
208 Cobb Institute of Archaeology
Box AR
Mississippi State, MS 39762
Telephone: 662-325-7524
E-mail: dhoffman@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 the following will be required to take:

AN 1103	Introduction to Anthropology	3
AN 1344	Introduction to Biological Anthropology	4
AN 1143	Introduction to Cultural Anthropology	3

These courses are not offered for graduate credit. A student who has not taken 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 February 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 (with no grade lower than a C) to gain regular admission status. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 is not attained, the provisional student will be dismissed from 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 February 15 (for fall semester) and October 15 (for spring semester).

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

For additional information, contact the Anthropology Graduate Coordinator. (dhoffman@anthro.msstate.edu)

Program of Study

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 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.

Master of Arts in Applied Anthropology, Applied Archaeology/Bioarchaeology Emphasis

Archaeology field school [1]		
Required courses		
AN 6123	Anthropological Theory	3

AN 6523	Public Archaeology	3
AN 8011	Professionalization in Applied Anthropology	1
AN 8013	Quantitative Methods in Anthropology	3
AN 8533	Readings in Archaeology: Theory	3
Technical elective graduate courses		6-7
Additional 8000-level coursework		6
Research		6
AN 8000	Thesis Research/ Thesis in Anthropology	
Internship		5
One-semester- or one-summer-long internship		
Total Hours		**36-37**

1 AN 2516 Archaeological Field Methods: Survey: 1-6 hours, or AN 3516 Archaeological Field Methods: Excavation: 1-6 hours, or AN 3540 Archaeological Travel and Participation Program: 1-6 hours must be completed if the student has not had equivalent courses or field experience. Courses do not count for graduate credit.

An oral exam and thesis are required.

The emphasis in applied archaeology/ bioarchaeology focuses on cultural resource management. Specialty areas include the following.

- archaeological surface survey and excavation methods
- artifact analysis
- settlement pattern and spatial analysis
- environmental archaeology
- osteoarchaeology
- forensics

Master of Arts in Applied Anthropology, Applied Cultural Anthropology Emphasis

Required courses		
AN 6123	Anthropological Theory [1]	3
AN 8011	Professionalization in Applied Anthropology	1
AN 8013	Quantitative Methods in Anthropology	3
Elective graduate courses		9
Additional 8000-level coursework		9
Research		6
AN 8000	Thesis Research/ Thesis in Anthropology	
Internship		5
One-semester- or one-summer-long internship		
Total Hours		**36**

1 Must be completed if the student has not had equivalent courses or field experience.

An oral exam and thesis are required.

The applied cultural anthropology specialization emphasizes medical anthropology; environmental 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.

Graduate Anthropology Minor

The department offers a graduate minor in anthropology consisting of 12 graduate hours including AN 6123. 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.

Biological Sciences

Department Head: Dr. Gary Ervin
Graduate Coordinator: Dr. Mark Welch
General Biology Coordinator: Dr. Donna Gordon
219 Harned Hall, 295 Lee Blvd
Box GY
Mississippi State, MS 39762
Telephone: 662-325-3120
E-mail: grad_studies@biology.msstate.edu, msgb@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 Accelerated Program (Combined B.S./ M.S.). 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

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; a student admitted with provisional status should contact the graduate coordinator for the program's specific requirements. A student will not be retained on provisional status for more than two semesters. While in the provisional status, a student is not eligible to hold a graduate assistantship. This option is not available for students pursuing the combined B.S./M.S. program.

Academic Performance

The graduate student must maintain an average of B (3.00) or higher for all courses after admission to the program. Only grades of C or higher will be accepted for credit. One course of the approved graduate program can be repeated; the two grades will be averaged. All grades earned will be employed in overall GPA calculations. Failure to demonstrate satisfactory progress toward completion of degree requirements, including earning two or more Cs or earning a grade of D or F, may be considered by the Graduate Committee in consultation with the student's advisory committee to be sufficient cause for dismissal from the graduate program. If the student's GPA falls below 3.00, he/she will have a one-semester grace period in which to retain a teaching assistantship. By the end of this grace period, the student must have achieved an overall 3.00 GPA. This 3.00 GPA must be maintained for the duration of the graduate program, or the student will be recommended for dismissal from the graduate program. The student may retain a teaching assistantship during this probationary semester. During the probationary semester, the student must be enrolled in approved program requirements or, if the program has not yet been approved, in courses appropriate for the program.

Master of Science in Biological Sciences

BIO 8011	Seminar I [1]	1
BIO 8021	Seminar II [1]	1
ST 8114	Statistical Methods [2]	4
Additional graduate-level coursework		18
BIO 8000	Thesis Research/ Thesis in Biological Sciences	6
Total Hours		**30**

1. Only one hour of BIO 8011 and one hour of BIO 8021 will be credited towards the degree.
2. Or appropriate substitute, as approved by the advisory committee.

An exit seminar, a final comprehensive examination, and a thesis are required. At least 12 hours of coursework must be 8000-level.

Doctor of Philosophy in Biological Sciences

BIO 8011	Seminar I [1]	1
BIO 8021	Seminar II [1]	1
ST 8114	Statistical Methods [2]	4
Graduate-level coursework to be determined by student's graduate committee		
BIO 9000	Dissertation Research/ Dissertation in Biological Sciences	20

1. Only one hour of BIO 8011 and one hour of BIO 8021 will be credited towards the degree.
2. Or appropriate substitute, as approved by the advisory committee.

An exit seminar, a comprehensive examination, a dissertation, and a dissertation defense are required.

The Doctor of Philosophy course requirements are determined by the student's advisory committee. Mandatory academic performance is the same as specified by Graduate School policy.

Accelerated Program (Combined B.S./M.S.)

A student accepted into the accelerated B.S./M.S. program is allowed to enroll in graduate courses in the student's final undergraduate semester. The student and advisor may select up to 9 hours that will satisfy both undergraduate and graduate requirements. These courses may be split level (i.e., split 4000-6000 level) or 8000 level classes. The student should take the courses for graduate credit (i.e., 6000 level or higher).

To register for graduate courses, the student must first submit to the Office of the Graduate School a completed Undergraduate Request to Enroll in Graduate Courses(s) form (http://www.grad.msstate.edu/forms/pdf_forms/undergraduate_request_to_enroll_in_graduate_course.pdf). The combination of undergraduate and graduate credit hours may not exceed 13 hours within a semester. After successfully completing the graduate-level classes, the student and undergraduate advisor will complete a request to receive undergraduate credit for the course. After receiving the request, the Registrar will grant credit for the undergraduate course and give the same grade as received for the graduate course. For the case of a split-level class, the transcript will show credit for both the 4000 and 6000 levels on the transcript. In the case of an 8000 level class, an undergraduate course of the same title will be entered on the transcript to allow dual credit.

Students are permitted to opt out of the combined program at any time, at which point they can complete only the undergraduate portion of the program. No additional dual counting of courses will occur after the student opts out of the combined program.

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

Master of Science in General Biology

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 listed at the beginning of this page.

BIO 6013	Genetics and Molecular Biology	3
BIO 6023	Principles of Evolutionary Biology	3
BIO 6033	Fundamentals of Biotechnology	3
BIO 6043	Developmental and Reproductive Biology	3
BIO 8023	Modern Microbiology	3
BIO 8033	Advanced Cell Biology	3
BIO 8043	Ecology and the Environment	3
BIO 8053	Comprehensive Study of Animals	3
BIO 8063	Comprehensive Study of Plants	3
BIO 8093	Experimental Biology and Biostatistics	3
BIO 8183	Capstone in Modern Biology	3
Total Hours		**33**

Chemistry

Department Head: Dr. Alan Marcus, Interim
Graduate Coordinator: Dr. Stephen Foster

1115 Hand Chemical Laboratory
Box 9573
Mississippi State, MS 39762
Telephone: 662-325-3584
E-mail: grad@chemistry.msstate.edu
Website: http://www.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, Chemical Education, 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, calorimetry 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 and HPLC instruments. 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 or visit the chemistry department website (http://www.chemistry.msstate.edu).

Admission Criteria

All students who have earned a B.S. in chemistry, biochemistry, or other closely related field will be given full consideration for admission and the award of an assistantship. Although not required, the admissions committee encourages international students to take the GRE general test. International 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 may be 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.

Academic Performance

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.

Master of Science in Chemistry

CH 8111	Professional Chemistry	1
Research		6
Coursework at 8000-level or higher [1]		22
Seminar		1
Total Hours		**30**

[1] Coursework outside the department at the 6000 level may be deemed acceptable by a student's supervisory committee but cannot constitute more than 50% of the total program.

Each graduate student must complete a research project, write a thesis, and defend their results before a faculty committee.

Doctor of Philosophy in Chemistry

CH 8111	Professional Chemistry	1
Coursework at 8000-level or higher [1]		18
3 seminars		3
CH 9000	Dissertation Research/ Dissertation in Chemistry	20
Total Hours		**42**

[1] Coursework outside the department at the 6000 level may be deemed acceptable by a student's supervisory committee but cannot constitute more than 50% of the total program.

In addition, each Ph.D. student must pass a series of cumulative exams and an oral proposal examination.

Each graduate student must complete a research project, write a dissertation, and defend their results before a faculty committee.

Classical and Modern Languages and Literatures

Department Head: Dr. Lynn Holt, Interim
Graduate Coordinator : Dr. Keith Moser
1502 Lee Hall
Box FL
Mississippi State, MS 39762
Telephone: 662-325-3480
E-mail: kmoser@fl.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 GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 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 (http://catalog.msstate.edu/graduate/colleges-degree-programs/arts-sciences/classical-modern-languages-literatures/#graduate-coordinator).

Program of Study/Completion Requirements

Thesis and non-thesis options are available. 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**.**

Master of Arts in Foreign Language - Thesis

FL XXXX	Graduate language courses in chosen area of study [1]	21
Additional graduate-level coursework		3
Research/thesis [2]		6
Total Hours		**30**

1. 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**.**
2. Requires an oral defense of the thesis.

Also required for the degree is a comprehensive oral examination based upon all coursework taken, a Departmental Graduate Reading List and 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. At least 12 hours of coursework must be 8000-level.

Master of Arts - Non-Thesis

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. 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. At least 15 hours of coursework must be 8000-level.

Communication

Department Head: Dr. John E. Forde
130 McComas Hall
Box PF
Mississippi State, MS 39762
Telephone: 662-325-3320
E-mail: jforde@comm.msstate.edu

Communication courses may be taken for graduate credit by qualified students majoring in other subjects. Currently there is no graduate program in Communication. For additional information, contact the Department of Communication (jforde@comm.msstate.edu).

English

Department Head: Dr. Richard Raymond
Graduate Coordinator: Dr. Lara Dodds
2304 Lee Hall
Box E
Mississippi State, MS 39762
Telephone: 662-325-2354
E-mail: ld214@msstate.edu

Teaching English to Speakers of Other Languages (TESOL) Certificate Program
Program Director: Dr. Wendy Herd
2313 Lee Hall
Box E
Mississippi State, MS 39762
Telephone: 662-325-2388
E-mail: wjh159@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 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. An applicant must submit all materials by March 15 to be considered for an assistantship.

Provisional Admission

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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.**

Teaching English to Speakers of Other Languages (TESOL) Certificate Program

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. Students who earn the certificate will be prepared to teach English as a foreign language in countries outside the United States and English as a second language in positions inside the United States that do not require a teacher's license.

Admission to the Certificate Program

The graduate program of the Certificate in TESOL is open to graduate students in good standing who are currently enrolled at the University in any major. Degree-seeking students will be awarded their certificates at the time that they complete their degrees.

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

- Current employees of Mississippi State University
- People currently employed as educators in Mississippi at any level
- People who have earned a degree at MSU within the previous five years

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.

Programs of Study

Students may pursue an emphasis in Creative Writing or a minor in Teaching of English as a Second Language. External minors are also available.

Master of Arts in English - Thesis

Graduate coursework		21
EN 8103	Graduate Research in English	3
EN 8000	Thesis Research/ Thesis in English	6
Total Hours		**30**

- A thesis is required.
- 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 study, 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.

Master of Arts in English - Non-Thesis

Graduate coursework		30
EN 8103	Graduate Research in English	3
Total Hours		**33**

- 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 study, must take a comprehensive examination in British and American literature. The exam must be taken at the beginning of the student's fourth full semester.

Teaching English to Speakers of Other Languages (TESOL) Certificate Program

Theoretical Background		
EN 6403	Introduction to Linguistics	3
EN 6463	Studies in Second Language Acquisition	3
EN 6443	English Syntax	3
Language Teaching Methodology		
Select two of the following:		6
EN 6433	Approaches to TESOL	
EN 6453	Methods in TESOL	
EN 6493	TESOL Practicum	
Total Hours		**15**

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.

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

Gender Studies Certificate Program

Director: Dr. Kimberly Kelly
231 Etheredge Hall
Box C, MS 9562
Mississippi State, MS 39762
Telephone: 662-325-2355
E-mail: genderstudies@msstate.edu
Website: http://genderstudies.msstate.edu

Gender Studies is an interdisciplinary academic program that examines the construction of gender as a social, cultural, 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 considers 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 investigates the different impact of events, technologies, and government policies on men and women. The study of gender helps to broaden understandings of culture and identity, the intersection of gender with race, class, and sexuality, health and body politics, region and environment, nationalism, and citizenship.

The Gender Studies Certificate is awarded to students who complete 12 credit hours from the listed courses. The student may also petition the director for approval of another course.

COE 6743	Gender Issues in Counseling	3
EN 8593	Studies in Post-Colonial Literatures	3
HS 6313	Family Resource Management	3
HS 6403	Introduction to Gerontology	3
HI 6273	Women in American History	3
HI 6283		
HI 6293	History of Gender and Science	3
PSY 6983	Psychology of Aging	3
SO 6203		
SO 6403	Sociology of Gender	3
SO 8503	Seminar in the Family	3

Geosciences

Department Head: Dr. William Cooke
Graduate Coordinator: Dr. Michael Brown

Hilbun 108
Box 5448
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On-Campus Programs
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Admission

The Department of Geosciences offers graduate study leading to the Master of Science degree in Geoscience and the Doctor of Philosophy degree in Earth and Atmospheric Science. An applicant to the program must have an undergraduate GPA of at least 2.75 on a scale of 4.00 for entry to the master's program and at least 3.00 at both the undergraduate and graduate level for entry to the doctoral program. The general GRE is required of all on-campus applicants.

Although helpful, an undergraduate background in Geosciences is not a prerequisite for admission into the M.S. in Geoscience program. Applicants to the master's program in the Broadcast or Professional Meteorology concentrations are required to have passed Calculus I prior to arrival on campus, and the completion of Calculus II will greatly improve the chances of being accepted. All other master's applicants are recommended to have completed Calculus I.

Applicants to the doctoral program are required to 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 who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 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.

Master of Science Programs of Study

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.

General Departmental Requirements

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 the following areas.

- Broadcast Meteorology
- Environmental Geosciences
- Geography
- Geology

- Geospatial Sciences
- 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 scoring less than 80% on this test must successfully complete (grade of B or better) GR 1603 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 or its equivalent.

Master of Science in Geosciences, Broadcast Meteorology Concentration - Non-Thesis

GR 8553	Research Methods in Geoscience	3
Select at least 9 hours from the following: [1]		9
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 and Radar Meteorology	
GR 6823	Dynamic Meteorology I	
GR 6203	Geography of North America	
GR 6813	Natural Hazards and Processes	
GR 8843	Advanced Mesoscale Meteorology	
GR 8453	Quantitative Analysis in Climatology	
Additional graduate coursework		24
Total Hours		**36**

[1] A student who has taken any of these 9 hours in an undergraduate Geosciences program may substitute these or other appropriate MSU graduate-level courses. Substitutions may be made with the approval of the major professor and committee. They must be noted on the program of study.

A research project presentation and a written and oral comprehensive examination are required.

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

Master of Science in Geosciences with Professional Meteorology/Climatology Concentration - Thesis

GG 8561	Geoscience Seminar	1
GR 8542	Geographic Literature	2
or GG 8572	Geologic Literature	
Select at least 9 hours from the following: [1]		9
GR 6402	Weather Analysis I	
GR 6412	Weather Analysis II	
GR 6422	Weather Forecasting I	
GR 6432	Weather Forecasting II	
GR 6613	Applied Climatology	
GR 6623	Physical Meteorology	
GR 6733	Synoptic Meteorology	
GR 6753	Satellite and Radar Meteorology	
GR 6823	Dynamic Meteorology I	
GR 6933	Dynamic Meteorology II	
GR 6813	Natural Hazards and Processes	
GR 8843	Advanced Mesoscale Meteorology	
GR 8453	Quantitative Analysis in Climatology	
Additional 8000-level coursework		12
GR 8000	Thesis Research/ Thesis in Geography	6
Total Hours		**30**

[1] A student who has taken any of these 9 hours in an undergraduate Geosciences program may substitute these or other appropriate MSU graduate-level courses. Substitutions may be made with the approval of the major professor and committee. They must be noted on the program of study.

Thesis defense / comprehensive exam is required.

Master of Science in Geosciences with Geology Concentration -Thesis

GG 8561	Geoscience Seminar	1
GR 8542	Geographic Literature	2
or GG 8572	Geologic Literature	
Select at least 9 hours from the following: [1]		9
GG 6033	Resources and the Environment	
GG 6063	Development of Fossil Fuel Resources	
GG 6114	Mineralogy	
GG 6123	Petrology	
GG 6153	Engineering Geology	
GG 6201	Practicum in Paleontology	
GG 6203	Principles of Paleobiology	
GG 6233	Applied Geophysics	
GG 6304	Principles of Sedimentary Deposits I	
GG 6333	Geowriting	
GG 6403	Gulf Coast Stratigraphy	

GG 6413	Structural Geology	
GG 6433	Subsurface Methods	
GG 6443	Principles of Sedimentary Deposits II	
GG 6503	Geomorphology	
GG 6523	Coastal Environments	
GG 6613	Physical Hydrogeology	
GG 6623	Chemical Hydrogeology	
GG 8713	Regional Geology of Eastern North America	
Additional 8000-level coursework		12
GG 8000	Thesis Research/ Thesis in Geosciences	6
Total Hours		**30**

[1] A student who has taken any of these 9 hours in an undergraduate Geosciences program may substitute these or other appropriate MSU graduate-level courses. Substitutions may be made with the approval of the major professor and committee. They must be noted on the program of study.

Thesis defense / comprehensive exam is required.

Master of Science in Geosciences with Geography Concentration - Thesis

GG 8561	Geoscience Seminar	1
GR 8542	Geographic Literature	2
or GG 8572	Geologic Literature	
Select at least 9 hours from the following: [1]		9
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 Islamic World	
GR 8313	Advanced Cultural Geography	
Additional 8000-level coursework		12
GR 8000	Thesis Research/ Thesis in Geography	6
Total Hours		**30**

[1] A student who has taken any of these 9 hours in an undergraduate Geosciences program may substitute these or other appropriate MSU graduate-level courses. Substitutions may be made with the approval of the major professor and committee. They must be noted on the program of study.

Thesis defense / comprehensive exam is required.

Master of Science in Geosciences with Geospatial Sciences Concentration - Thesis

GG 8561	Geoscience Seminar	1
GR 8542	Geographic Literature	2
or GG 8572	Geologic Literature	
Select at least 9 hours from the following: [1]		9
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 Programming	
GR 6411	Remote Sensing Seminar	
GR 8303	Advanced Geodatabase Systems	
Additional 8000-level coursework		12
GR 8000	Thesis Research/ Thesis in Geography	6
Total Hours		**30**

[1] A student who has taken any of these 9 hours in an undergraduate Geosciences program may substitute these or other appropriate MSU graduate-level courses. Substitutions may be made with the approval of the major professor and committee. They must be noted on the program of study.

Thesis defense / comprehensive exam is required.

Master of Science in Geosciences with Environmental Geosciences Concentration - Thesis

GG 8561	Geoscience Seminar	1
GR 8542	Geographic Literature	2
or GG 8572	Geologic Literature	
Select at least 9 hours from the following: [1]		9
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	Physical Hydrogeology	
GR 6813	Natural Hazards and Processes	
GR 6613	Applied Climatology	
Additional 8000-level coursework		12
GG 8000	Thesis Research/ Thesis in Geosciences	6
Total Hours		**30**

[1] A student who has taken any of these 9 hours in an undergraduate Geosciences program may substitute these or other appropriate MSU graduate-level courses. Substitutions may be made with the approval of the major professor and committee. They must be noted on the program of study.

Thesis defense / comprehensive exam is required.

Master of Science in Geosciences with Teachers in Geosciences Concentration - Non-Thesis

GR 8553	Research Methods in Geoscience	3
Select 15 hours from the following: [1]		15
GR 8123	Meteorology II: Forecasting and Storms	
GG 8123	Geology II: Earth, Time and Life	
GR 6603	Climatology	

GG 8203	Ocean Science	
GG 8333	Planetary Science	
GG 8233	Environmental Geoscience	
GR 8400	Field Methods in Geosciences	
GR 8410	Field Methods Seminar [2]	
Additional 8000-level coursework		18
Total Hours		**36**

1 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.

2 Four (4) credits required, may also be repeated for 3 hours of electives.

A research project presentation and a written and oral comprehensive examination are required.

Master of Science in Geosciences with Applied Meteorology Concentration - Non-Thesis

GR 8553	Research Methods in Geoscience	3
GR 6303	Principles of GIS	3
GR 8833	Weather and Society	3
GR 8453	Quantitative Analysis in Climatology	3
GR 8573	Research in Applied Meteorology	3
Select at least one of the following:		3
GR 6923	Severe Weather	
GR 6943	Tropical Meteorology	
Select at least nine hours from the following:		9
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 6933	Dynamic Meteorology II	
GG 8203	Ocean Science	
GG 8233	Environmental Geoscience	
GG 8613	Hydrology	
GR 8613	Hydrometeorology	
GR 8613	Hydrometeorology	
GR 8633	Climate Change	
GR 8813	Advanced Hazards and Disasters	
GR 8133	Foundations in Forecasting	
GR 8143	Advanced Forecasting Techniques	
Graduate-level coursework		9
Total Hours		**36**

1 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.

A research project presentation and a written and oral comprehensive examination are required.

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

Doctoral Program of Study

Doctor of Philosophy in Earth and Atmospheric Sciences

GG 8913	Research, Readings, and Techniques in Geosciences	3
GR 8913	Philosophy and Ethics in Geosciences	3
GG 9000	Dissertation Research /Dissertation in Geology	20
Additional 8000-level courses offered within the Department of Geosciences [1]		10
Total Hours		**36**

1 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.

The doctoral program will include 36 hours beyond the master's and the completion of a dissertation. Written and oral comprehensive examinations are administered at the end of required coursework. A dissertation proposal defense is also required.

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

History

Department Head: Dr. Alan I. Marcus
Graduate Coordinator: Dr. Stephen Brain
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Diversity Certificate Program Director: Dr. Alan I. Marcus
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E-mail: aimarcus@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.

Accelerated Program (Combined B.S./M.S.) Admissions

Students may apply to the Accelerated 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 with a grade of B or better. The initial application will be to the History Department's Graduate Committee. Applicants must submit a completed graduate application form, a statement of purpose for graduate study, transcripts, and at least two letters of recommendation from history faculty members. The application deadlines for this program are November 1 and April 1. Students seeking History Department-sponsored funding (Teaching Assistantships) should apply by March 1 in order for their applications to receive full consideration. All applications will be reviewed at the start of the semester for which the student has been admitted into the program; students whose GPA has fallen below the minimum requirement or who have failed to complete HI 3903 with a B, will be removed from the program. If a student intends to apply for this program he or she should meet with the graduate coordinator during the advising period prior to the semester for which the student intends to apply for admission to select the appropriate courses. The student must apply to the Graduate School for regular admission into the graduate program during his or her last year of enrollment as an undergraduate.

Application Deadlines

Fall Semester	April 1
Spring Semester	November 1
Teaching Assistantships (fall semester only)	March 1

Provisional Admission

An applicant not satisfying the minimum quantitative requirements or lacking an adequate background in history may be granted provisional admission. An applicant admitted on a provisional basis must earn a 3.00 GPA in his or her first 9 hours of graduate work at MSU after admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. Students admitted provisionally because of inadequate undergraduate preparation in history may be asked to take additional courses at the undergraduate level.

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.

Diversity Certificate Program

The Diversity Certificate Program seeks to teach workplace success by providing the multi-cultural knowledge and skills necessary to navigate among a diverse workforce. At the heart of this post-baccalaureate program is the demand that students learn and think critically about race, race relations, ethnicity, social class and inequality, religion, and gender. This requirement will produce employees who have the necessary sensitivity and understanding to accept important leadership challenges and to advance themselves and their workplace.

Its methods are straightforward. Each student seeking a certificate must take at least one of two courses from each of four distinct fields: History, Sociology, Gender Studies and African American Studies. Students are free to take more than the minimum number of courses; however, the program an intense immersion in one course from each area will enhance understanding sufficient for business persons to achieve objectives most sensibly and expeditiously.

The choice of these four fields is deliberate and precise. History will enable students to learn the various forces, activities and trends leading to the present day world; history grants perspective. Sociology will explore and explain the interactions among and between diverse peoples in the present day; it explores social dynamics. Both African American and Gender Studies offer a more multivariate approach. Borrowing from a number of disciplines and specialties, they offer an interdisciplinary, multicultural perspective, revealing numerous, tangible intersections among institutional sexism and racism, power relationships, economic allocation and self and group actualization.

Together, these four fields create a tightly woven package that will make a true difference both in the students who take the courses and the workplaces in which they operate. Each of the courses has a similar approach using classic writings, great thinkers and pertinent events as well as analysis and understanding of those whose voices in social settings remain obscured. Each utilizes the most recent information and insight to fashion an acute demonstration of how multicultural knowledge and understanding is essential to successful functioning in all aspects of the modern world.

Admission

Applicants must be graduates of accredited undergraduate institutions and be admitted by the Graduate Office either as a degree-program or unclassified graduate student. Students wishing to apply for the certificate program must submit a writing sample explaining how they plan to use the Diversity Certificate in their careers. This document is required from degree-program and unclassified graduate students and must be submitted directly to Dr. Alan Marcus (http://catalog.msstate.edu/

graduate/colleges-degree-programs/arts-sciences/history/#diversity-director). 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.

Master of Arts Degree Program of Study

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 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.

Master of Arts in History (United States Emphasis) - Thesis

Research seminar		3
HI 8923	Historiography and Historical Method	3
Select two of the following:		6
HI 8933	Colloquium in Colonial and Revolutionary America	
HI 8943	Colloquium in the U.S. History from 1787-1877	
HI 8953	Colloquium in the U.S. History from 1877-1945	
HI 8963	Colloquium in the U.S. History from 1945-present	
Additional graduate-level coursework		18
Total Hours		**30**

Master of Arts in History (United States Emphasis) - Non-Thesis

Research seminar		3
HI 8923	Historiography and Historical Method	3
Select two of the following - one pre-1877 and one post-1877:		6
HI 8933	Colloquium in Colonial and Revolutionary America	
HI 8943	Colloquium in the U.S. History from 1787-1877	
HI 8953	Colloquium in the U.S. History from 1877-1945	
HI 8963	Colloquium in the U.S. History from 1945-present	
Additional graduate-level coursework		18
Total Hours		**30**

Master of Arts in History (European, Latin American, Asian, African, or World History Emphasis) - Thesis

Research seminar		3
HI 8923	Historiography and Historical Method	3
Additional graduate-level coursework		24
Total Hours		**30**

Master of Arts in History (European, Latin American, Asian, African, or World History Emphasis) - Non-Thesis

Research seminar		3
HI 8923	Historiography and Historical Method	3
Additional graduate-level coursework		24
Total Hours		**30**

5th Year Master of Arts Degree

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

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.

Baccalaureate Degree and 5th Year Master of Arts in History (United States Emphasis) - Thesis

Baccalaureate degree		
Research seminar		3
HI 8923	Historiography and Historical Method	3
Select two of the following:		6
HI 8933	Colloquium in Colonial and Revolutionary America	
HI 8943	Colloquium in the U.S. History from 1787-1877	
HI 8953	Colloquium in the U.S. History from 1877-1945	

HI 8963	Colloquium in the U.S. History from 1945-present	
Additional graduate-level coursework		18
Total Hours		**30**

Baccalaureate Degree and 5th Year Master of Arts in History (United States Emphasis) - Non-Thesis

Baccalaureate degree		
Research seminar		3
HI 8923	Historiography and Historical Method	3
Select two of the following - one pre-1877 and one post-1877:		6
HI 8933	Colloquium in Colonial and Revolutionary America	
HI 8943	Colloquium in the U.S. History from 1787-1877	
HI 8953	Colloquium in the U.S. History from 1877-1945	
HI 8963	Colloquium in the U.S. History from 1945-present	
Additional graduate-level coursework		18
Total Hours		**30**

Baccalaureate Degree and 5th Year Master of Arts in History (European, Latin American, Asian, African, or World History Emphasis) - Thesis

Baccalaureate degree		
Research seminar		3
HI 8923	Historiography and Historical Method	3
Additional graduate-level coursework		24
Total Hours		**30**

Baccalaureate Degree and 5th Year Master of Arts in History (European, Latin American, Asian, African, or World History Emphasis) - Non-Thesis

Baccalaureate degree		
Research seminar		3
HI 8923	Historiography and Historical Method	3
Additional graduate-level coursework		24
Total Hours		**30**

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 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.

Doctor of Philosophy in History (United States Emphasis)

Two research seminars		6
Research		20
HI 8923	Historiography and Historical Method	3
HI 8933	Colloquium in Colonial and Revolutionary America [1]	3
HI 8943	Colloquium in the U.S. History from 1787-1877 [1]	3
HI 8953	Colloquium in the U.S. History from 1877-1945 [1]	3
HI 8963	Colloquium in the U.S. History from 1945-present [1]	3
Select one of the following in specialization area:		3
HI 8873	Seminar in History of Science and Technology	
HI 8893	Seminar in History of International Security and Internal Safety	
HI 8883	U.S. Agricultural History, 1500-2000	
Three seminar-related courses [2]		
HIST XXXX	Additional graduate coursework	16
Total Hours		**60**

1 Or an equivalent acceptable to the graduate committee.

2 Chosen in consultation with the student's graduate committee.

Doctor of Philosophy in History (European History Emphasis)

Two research seminars		6
Research		20
HI 8923	Historiography and Historical Method	3
Select one of the following in specialization area:		3
HI 8873	Seminar in History of Science and Technology	
HI 8893	Seminar in History of International Security and Internal Safety	
HI 8883	U.S. Agricultural History, 1500-2000	
Three seminar-related courses [1]		
HIST XXXX	Additional graduate coursework	28
Total Hours		**60**

1 Chosen in consultation with the student's 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 (http://catalog.msstate.edu/graduate/colleges-degree-programs/arts-sciences/history).

Diversity Certificate Program

HI 8773	Issues in Women's History	3
or HI 8783	Issues in African American History	
SO 8983	Seminar in Race Relations	3
or SO 8993		
AAS 8793	Rae and Cultural Diversity in the Workplace	3
or AAS 8613		
GS 8113		3
or GS 8103		
Total Hours		**12**

The Diversity Certificate Program requires a B or better in 12 credit hours earned by taking one course from each of the pairs.

Mathematics and Statistics

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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 GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 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.

Statistics

Admission Criteria

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

Provisional Admission

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

Academic Performance

Continuous enrollment in the University or in a specific graduate program is dependent upon a satisfactory evaluation of academic performance and progress toward the completion of a specified degree. A student's progress is considered satisfactory unless judged to be unsatisfactory by the department and/or the dean of the college offering the program.

Unsatisfactory progress in a degree program may be defined as one or more of the following:

- A student's failure to maintain a B average on all graduate courses attempted after admission to the program
- Failure of a Master's Core Examination or a Ph.D. Comprehensive Area Examination
- Failure of the preliminary examination.

In January, May, and August of each year, the Graduate Coordinating Committee will review the academic records of students who were admitted with contingent or provisional status, are currently on probation, have earned a grade of D, F, or U during the previous semester, or have earned more than two grades below B. The Graduate Coordinating Committee will consider making a recommendation to the Dean of the Graduate School that a student be dismissed from his/her degree program if any of the following conditions exist:

- The student's progress in his/her degree program is deemed unsatisfactory
- The student is not making satisfactory progress toward satisfying any condition of his/her contingent admission
- The student is on academic probation and cannot meet the requirements for good academic standing within the next 9 credit hours taken in the student's program of study.

Any of the following will result in a recommendation for dismissal from a graduate degree program:

- Two failures on the Master's Core Examination or a Ph.D. Comprehensive Area Examination
- Failure of a student in provisional status to achieve a 3.00 GPA on the first 9 hours of regular graduate level coursework taken at Mississippi State University
- More than two grades below a B
- A grade of D, F, or U in any course (graduate or undergraduate) taken while the student is enrolled in a graduate program in mathematics or statistics.

The student and advisor (if different from the graduate coordinator) will be notified in writing when the first and second unsatisfactory grades are received.

A student enrolled in a graduate program in the Department of Mathematics and Statistics will be placed on academic probation if the student fails to maintain a 3.00 GPA or earns a grade below a B in a prerequisite course. To be removed from academic probation, the student must achieve an overall GPA of 3.00 or higher on coursework taken toward the degree.

To be eligible for the preliminary/comprehensive examination, a graduate student must maintain an overall B average in all graduate courses attempted while in a specific program. Individual programs may have additional requirements.

Prerequisite Courses

The master's degree program in Statistics requires as prerequisite expertise in the following: Matrix Algebra, Computer Concepts, and Calculus at the level of MA 2743 Calculus IV.

Master of Science in Mathematics - Thesis

MA 6153	Matrices and Linear Algebra [1]	3
MA 6753	Applied Complex Variables [1]	3
MA 6933	Mathematical Analysis I [1]	3
MA 6163	Group Theory	3

or MA 6943	Mathematical Analysis II	
MA /ST 6543	Introduction to Mathematical Statistics I	3
or MA 6313	Numerical Analysis I	
MA XXXX	Additional graduate-level coursework	15
Total Hours		**30**

[1] Requires an examination.

A thesis is required.

Master of Science in Mathematics - Non-Thesis

MA 6153	Matrices and Linear Algebra [1]	3
MA 6753	Applied Complex Variables [1]	3
MA 6933	Mathematical Analysis I [1]	3
MA 6163	Group Theory	3
or MA 6943	Mathematical Analysis II	
MA /ST 6543	Introduction to Mathematical Statistics I	3
or MA 6313	Numerical Analysis I	
MA XXXX	Additional graduate-level coursework	18
Total Hours		**33**

[1] Requires an examination.

A project is required.

Doctor of Philosophy in Mathematical Sciences - Mathematics

Graduate-level coursework in each of four areas of mathematics and/or statistics	24
Graduate-level coursework in area of specialization	9-12
Total Hours	**33-36**

Comprehensive area examinations, a preliminary examination, a dissertation, and dissertation defense are required. 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,
- geometric combinatorics, and
- statistics.

For further details and specific degree requirements contact the Graduate Coordinator (http://catalog.msstate.edu/graduate/colleges-degree-programs/arts-sciences/mathematics-statistics).

Master of Science in Statistics - Thesis

ST 8533	Applied Probability [1]	3
ST 8603	Applied Statistics [1]	3
ST 6543	Introduction to Mathematical Statistics I [1]	3
ST 6573	Introduction to Mathematical Statistics II [1]	3
ST 8613	Linear Models I [1]	3
ST XXXX	Additional graduate-level coursework	15
Total Hours		**30**

[1] Requires an examination over these core courses.

A thesis is required.

Master of Science in Statistics - Non-Thesis

ST 8533	Applied Probability [1]	3
ST 8603	Applied Statistics [1]	3
ST 6543	Introduction to Mathematical Statistics I [1]	3
ST 6573	Introduction to Mathematical Statistics II [1]	3
ST 8613	Linear Models I [1]	3
ST XXXX	Additional graduate-level coursework	18
Total Hours		**33**

[1] Requires an examination over these core courses.

A project is required.

In addition, there is ample flexibility in the non-thesis option to allow a graduate student with special interest in an area of statistical application to acquire an area of emphasis in that particular applied field.

Doctor of Philosophy in Mathematical Sciences - Statistics

Graduate-level coursework in each of four areas of mathematics and/or statistics	24
Graduate-level coursework in area of specialization	9-12
Total Hours	**33-36**

Comprehensive area examinations, a preliminary examination, a dissertation, and dissertation defense are required. Before taking the preliminary examination, a Ph.D. student must satisfy the departmental foreign language requirement.

Research areas for the Ph.D. include

- linear models,
- multivariate statistics,
- probability theory and stochastic processes, and
- statistical methods.

Many applied courses are offered that are suitable for a minor in statistics at the master's or doctoral level.

For further details and specific degree requirements, contact the Graduate Coordinator (http://catalog.msstate.edu/graduate/colleges-degree-programs/arts-sciences/mathematics-statistics). (http://catalog.msstate.edu/graduate/colleges-degree-programs/arts-sciences/mathematics-statistics/#graduate-coordinator)

Philosophy and Religion

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The Department of Philosophy and Religion offers graduate courses that a student can take for elective credit. For additional information call 662-325-2382.

Physics and Astronomy

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Graduate study is offered in the Department of Physics and Astronomy leading to the degrees of Master of Science in Physics and to the Doctor of Philosophy in Physics. Both thesis and non-thesis options are offered for the Master of Science. 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 non-thesis M.S. option provides a means of enabling the Ph.D.-track student to complete graduate education in a timely manner.

Major areas of study include the following.

- computational physics
- theoretical and experimental optics
- diagnostics using the techniques of laser spectroscopy
- experimental and theoretical nuclear structure physics
- intermediate energy nuclear physics
- experimental and applied electromagnetic scattering
- astrophysics
- 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 GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 Performance

A candidate for a degree must average B or higher on all graduate courses attempted after admission to the program. No grade under C will be accepted on the program of study, and no more than 8 credit hours of C grades can be earned. 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 included in the GPA computation. 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 physics and astronomy graduate courses. For additional information, contact the Graduate Coordinator (http://catalog.msstate.edu/graduate/colleges-degree-programs/arts-sciences/physics-astronomy/#graduate-coordinator).

Master of Science in Physics - Thesis

Core Courses		
PH 8233	Methods of Theoretical Physics I	3
PH 8743	Quantum Mechanics I	3
Select two of the following:		6
PH 8243	Methods of Theoretical Physics II	
PH 8213	Mechanics	
PH 8313	Electromagnetic Theory	
Other coursework		12
Thesis		
PH 8000	Thesis Research/ Thesis in Physics and Astronomy	6
Total Hours		**30**

A thesis is required.

Master of Science in Physics - Non-Thesis

Core Courses		
PH 8213	Mechanics	3
PH 8233	Methods of Theoretical Physics I	3
PH 8243	Methods of Theoretical Physics II	3
PH 8313	Electromagnetic Theory	3
PH 8743	Quantum Mechanics I	3
PH 8753	Quantum Mechanics II	3

Other coursework	12
Total Hours	**30**

Students must pass a written preliminary examination on the Physics core courses. After successfully passing this examination, the students are required to pass an oral comprehensive examination.

Doctor of Philosophy in Physics

All Ph.D. candidates will be required to take a minimum of 20 credit hours of PH 9000 Research/Dissertation. The committee for individual students may require additional courses, depending on the research area and background of the student. All students must pass an oral preliminary examination on the proposed dissertation topic and coursework.

In addition, all Ph.D. candidates are required to demonstrate a broad background in physics by passing four written preliminary examinations on classical mechanics, electromagnetic theory, mathematical physics and quantum mechanics.

Political Science and Public Administration

Department Head: Dr. K. C. Morrison
Graduate Coordinator: Dr. Christine Rush
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The Department of Political Science and Public Administration offers graduate study leading to

- the Doctor of Philosophy (Ph.D.) in Public Policy and Administration,
- the Master of Public Policy and Administration (M.P.P.A.) and
- the Master of Arts (M.A.) in Political Science.

The department awards a limited number of graduate assistantships.

Doctor of Philosophy in Public Policy and Administration

Admission Criteria

A student admitted to the Ph.D. program must have earned a graduate degree from an accredited university with a master's level grade point average of at least 3.35. The applicant must submit the results of the Graduate Record Examination (GRE); three letters of recommendation; a current résumé, two samples of previously written research (e.g., graduate thesis or capstone analysis) or analytic work completed in his or her professional career; and a statement of professional intent. The Ph.D. committee interviews most applicants.

Any international applicant whose native language is not English must submit scores that are not more than two years old from either the Test of English as a Foreign Language (TOEFL) or the International English Language Language Testing Systems (IELTS). These applicants must achieve a score of 600 PBT (100 iBT) or better on the TOEFL or 7.5 on the IELTS.

Academic Probation

A student whose GPA fall below 3.00 will be placed on academic probation the following semester. See the complete Academic Probation (http://catalog.msstate.edu/graduate/academic-policies/academic-probation-dismissal-appeal) policy in this catalog.

Unsatisfactory Performance

A student in the Ph.D. program will be dismissed if he or she

- has more than two courses not exceeding 8 credit hours of grades below a B earned for all courses since admission to the program, including those outside the program of study, **or**
- receives a second course grade below a C, **or**
- fails the preliminary exams a second time, **or**
- is found to be responsible for violating the Student Honor Code for a second time.

See the complete Graduate School policy on Academic Dismissal (http://catalog.msstate.edu/graduate/academic-policies/academic-probation-dismissal-appeal) in this catalog.

Master of Public Policy and Administration

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

Admission Criteria

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

Any international applicant whose native language is not English must submit scores that are not more than two years old from either the Test of English as a Foreign Language (TOEFL) or the International English Language Testing Systems (IELTS). These applicants must have a score of 600 PBT (100 iBT) or better on the TOEFL or 7.5 on the IELTS.

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 student 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.

Academic Probation

A student whose GPA fall below 3.00 will be placed on academic probation the following semester. See the complete Academic Probation (http://catalog.msstate.edu/graduate/academic-policies/academic-probation-dismissal-appeal) policy in this catalog.

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 two courses not exceeding 8 credits of graduate work. He or she will also be dismissed if found responsible for violating the Student Honor Code for a second time. See the complete Graduate School policy on Academic Dismissal (http://catalog.msstate.edu/graduate/academic-policies/academic-probation-dismissal-appeal) in this catalog.

Master of Arts in Political Science

Admission Criteria

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

Any international applicant whose native language is not English must submit scores that are not more than two years old from either the Test of English as a Foreign Language (TOEFL) or the International English Language Testing Systems (IELTS). These applicants must achieve a score of 600 PBT (100 iBT) on the TOEFL or 7.5 on the IELTS.

Readmission

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.

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.

Academic Probation

A student whose GPA fall below 3.00 will be placed on academic probation the following semester. See the complete Academic Probation (http://catalog.msstate.edu/graduate/academic-policies/academic-probation-dismissal-appeal) policy in this catalog.

Unsatisfactory Performance

A student in the Master of Arts program will be dismissed if he or she

- receives grades of C or lower in two courses not exceeding 8 credits of graduate work, **or**
- fails the comprehensive examination a second time, **or**
- receives unsatisfactory grades for two semesters in PS 8000 (thesis only), **or**
- is found to be responsible for violating the Student Honor Code for a second time.

See the complete Graduate School policy on Academic Dismissal (http://catalog.msstate.edu/graduate/academic-policies/academic-probation-dismissal-appeal) in this catalog.

Master of Arts in Political Science - Thesis

Approved coursework in research methods and public policy		6
PS 8000	Thesis Research/ Thesis in Political Science	6
PS XXXX	Additional political science courses	12
Approved electives		6
Total Hours		**30**

The thesis program is open to anyone who obtains approval by the M.A. Committee. A minimum of 12 hours excluding thesis credits at the 8000-level is required.

Master of Arts in Political Science - Non-Thesis

Approved coursework in research methods and public policy		6
PS XXXX	Additional political science core courses	12
Approved electives [1]		15
Total Hours		**33**

[1] 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.

A minimum of 15 hours at the 8000-level is required.

The non-thesis program 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.

Master of Public Policy and Administration

Core Courses		
PPA 8103	Seminar in Public Administration	3
PPA 8703	Government Organization and Administrative Theory	3
PPA 8713	Public Personnel Management	3
PPA 8723	Public Budgeting and Financial Management	3
PPA 8733	Public Program Evaluation	3
PPA 8743	Administrative Law	3
PPA 8803	Research Methods for Public Affairs	3
PPA 8903	Public Policy	3
PPA 8983	Integrative Capstone	3
Elective Courses		
Courses in selected concentration		12
Internship		

Public or non-profit internship [1]	3
Total Hours	**42**

[1] The internship is waived for students possessing at least one year of relevant work experience.

Core courses 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. 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.

Doctor of Philosophy in Public Policy and Administration

Public Administration Core Courses		
PPA 9603	Scope of American Public Administration	3
PPA 9703	Organization Behavior in the Public Sector	3
PPA 9713	Administration of Human Resources in a Public Sector Environment	3
PPA 9723	Public Budgeting Processes and Their Policy Implications	3
PPA 9613	Rural Government Administration I: Theoretical and Environmental Aspects	3
PPA 9203	Constitutional and Political Framework of Public Administration.	3
PPA 9303	Foundations of Public Administration	3
PPA 9403	Comparative Public Administration	3
PPA 9903	Public Policy Formulation and Implementation	3
Elective Courses		
Any graduate-level courses approved by the student's committee		6
Research Methodology		
PPA 9803	Multivariate Analysis and Design for Public Affairs	3
PPA 9993	Research Design and Philosophy of Science	3
PPA 9503	Qualitative Research for Public Affairs	3
PPA 9813	Advanced Quantitative Analysis for Public Affairs	3
Dissertation		
PPA 9000	Dissertation Research /Dissertation in Public Policy and Administration	20
Total Hours		**65**

The program focuses primarily on preparing graduates for teaching careers and for research careers.

The program's secondary focus is preparing graduates for management careers in federal, 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 (http://catalog.msstate.edu/graduate/colleges-degree-programs/arts-sciences/political-science-public-administration). 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.

Psychology

Department Head: Dr. Mitchell Berman
Graduate Coordinator: **Dr. Deborah Eakin**
110 Magruder Hall
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Mississippi State, MS 39762
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E-mail: grad@psychology.msstate.edu
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The Department of Psychology offers a doctoral degree in Applied Psychology. The objective of the program is to train applied psychologists for employment in business, industry, engineering, college, university, clinical, and other applied settings. Concentrations are offered in the areas of Applied Cognitive Science and Clinical. The Applied Cognitive Science concentration focuses on the interplay and linkages between cognitive psychology, advances in computer science and engineering, the varying cognitive abilities of individuals, and demands for people to use technology more easily and efficiently. The Clinical concentration focuses on the study and application of psychological science involving both normal and pathological human behavior, drawing from the cognitive, social, and biological arenas as well as computer science and advanced technologies.

A minor in cognitive science is designed for students outside of Psychology 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.

Admission Criteria

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

- For all applicants--statistics and experimental psychology
- For the applied cognitive science doctoral concentration-- introductory cognitive psychology
- For the clinical doctoral concentration--abnormal psychology

The application deadline for the Applied Cognitive Science doctoral concentration is January 15. The application deadline for the Clinical doctoral concentration is December 1.

The applicant may be admitted into the graduate program without all of the undergraduate course requirements contingent upon making up any deficiencies as soon as possible.

Requirements for admission into the graduate program are as follows: three letters of recommendation, an official score on the Graduate Record Examination (GRE) general test, and transcripts of all college/university work. The applicant not meeting the GPA requirement of 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

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 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 grades of C or lower in more than two courses not exceeding 8 credit hours for all courses since admission into the program, including those outside the program of study
- In the Applied Cognitive Science doctoral concentration: failing the first or second year projects, the general or specialty examinations, or the preliminary examination
- In the Clinical doctoral concentration: failing the manuscript exam twice, failing the comprehensive exam twice, or not being certified as ready for internship by the clinical faculty by the end of one's fifth year of study
- Unsatisfactory evaluation of a thesis or dissertation
- Failing a required component of study
- Failing to adhere to the APA Ethical Principles (www.apa.org/ethics/code (http://www.apa.org/ethics/code)), the Mississippi State University Honor Code (http://www.honorcode.msstate.edu/) and Graduate Academic Requirements (http://catalog.msstate.edu/graduate/academic-policies/academic-requirements).

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 during 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.

Doctor of Philosophy in Applied Psychology with Applied Cognitive Science Concentration

Research Methods and Quantitative Core		10
PSY 8214	Quantitative Methods in Psychology II	
PSY 8803	Advanced Quantitative Methods for Industrial Organizational and General Psychology	
PSY 8513	Psychological Research	
Research		21
PSY 9000	Dissertation Research /Dissertation in Psychology	
Cognitive Science Core		6
PSY 8703	Advanced Cognitive Science	
PSY 8713	Issues and Methods in Cognitive Psychology	
Cognitive Science Integration		6
PSY 8723	Cognitive Models of Skills	
PSY 8773	Distributed Representations in Cognition	
Cognitive Psychology Integration (Select two from the following)		6
PSY 8743	Perception and Attention	
PSY 8753	Advanced Human Memory	
PSY 8763	Expertise and Cognitive Skill	
Advanced Graduate Seminars		6
PSY 8653	Applied Cognitive Reading Seminar	
Research & Professional Skills		12
PSY 8683	Cognitive Science Research Skills	
PSY 8693	Advanced Cognitive Science Research Skills	
PSY 8783	Cognitive Science Professional Skills	
PSY 8793	Advanced Cognitive Science Professional Skills	
Cognitive Science Seminar		5
PSY 8731	Applied Cognitive Science Research Seminar	
Total Hours		**72**

Doctor of Philosophy in Applied Psychology with Clinical Concentration

Research Methods and Quantitative Core		10
PSY 8214	Quantitative Methods in Psychology II	
PSY 8803	Advanced Quantitative Methods for Industrial Organizational and General Psychology	
PSY 8513	Psychological Research	
Research		21
PSY 9000	Dissertation Research /Dissertation in Psychology	
Clinical Concentration [1]		27
PSY 8713	Issues and Methods in Cognitive Psychology	
PSY 8313	Developmental Psychology	
PSY 8613	Advanced Social Psychology	
EPY 8113	History and Systems of Psychology	
COE 8073	Cultural Foundations in Counseling	
PSY 8233	Ethical and Professional Issue in Clinical Psychology	
PSY 9730	Doctoral Internship in Clinical Psychology	
Total Hours		**58**

[1] Clinical concentration courses are APA Breadth and/or licensure requirements.

Master of Science in Psychology with Clinical Concentration

PSY 8214	Quantitative Methods in Psychology II	4
PSY 8513	Psychological Research	3
PSY 8000	Thesis Research/ Thesis in Psychology	6

PSY 8323	Psychopathology	3
PSY 8333	Systems of Psychotherapy	3
PSY 8354	Intelligence Testing	4
PSY 8364	Personality Appraisal	4
PSY 8383	Behavior Therapy	3
PSY 8450	Applied Clinical Practicum	4
PSY 8460	Applied External Clinical Practicum	4
PSY 8533	Introduction to Clinical Practicum in Psychology	3
PSY 8573	Psychopharmacology	3
Elective		3
Total Hours		**47**

Clinical doctoral students will be concurrently enrolled in the Master of Science in Psychology degree program automatically after acceptance into the doctoral program. There is no terminal MS degree in Clinical psychology.

Students admitted into the Clinical doctoral program who have completed a master's degree in psychology with an empirical thesis at another institution may petition the Clinical Training Committee to waive the thesis requirement and up to 6 credit hours of coursework. Such students will need to complete the remaining course of study listed in the M.S. program above.

Graduate Minor in Cognitive Science

PSY /CSE 6653	Cognitive Science	3
PSY XXXX	Select course from Psychology Courses list	3
IE XXXX or CSE XXXX	Select course from the Industrial and Systems Engineering Courses list or the Computer Science and Engineering Courses list	3
Select one course each from two of the following lists:		6
Psychology Courses		
Industrial and Systems Engineering Courses		
Computer Science and Engineering Courses		
English/Anthropology/Sociology Courses		
Electrical and Computer Engineering Courses		
Philosophy Course		
Total Hours		**15**

Psychology Courses

PSY 6423	Sensation and Perception	3
PSY 6643	Social Cognition	3
PSY 6713	Language and Thought	3
PSY 6733	Memory	3
PSY 6753	Applied Cognitive Psychology	3
PSY 8713	Issues and Methods in Cognitive Psychology	3
PSY 8723	Cognitive Models of Skills	3
or CSE 8613	Cognitive Models of Skill	
PSY 8990	Special Topics in Psychology (with approval)	1-9
Total Hours		**22-30**

Industrial and Systems Engineering Courses

IE 6113	Human Factors Engineering	3
IE 8153	Cognitive Engineering	3

Computer Science and Engineering Courses

CSE 6633	Artificial Intelligence	3
CSE 6663	Human-Computer Interaction	3
CSE 8673	Machine Learning	3
CSE 8990	Special Topics in Computer Science and Engineering (with approval)	1-9

English/Anthropology/Sociology Courses

EN /AN 6403	Introduction to Linguistics	3
EN 6463	Studies in Second Language Acquisition	3
EN /AN /SO 6663	British and Irish Novel Since 1900	3
AN /SO 6623	Language and Culture	3

Electrical and Computer Engineering Courses

ECE 6713	Computer Architecture	3
ECE 6813	Communications Theory	3
ECE 8443	Pattern Recognition	3

Philosophy Course

PHI 6143	Philosophy of Science	3

Sociology

Department Head: **Dr. Leslie H. Hossfeld**
Graduate Coordinator: **Dr. Stacy Haynes**
207 Bowen Hall
Box C
Mississippi State, MS 39762
Telephone: 662-325-2495
E-mail: sociology@soc.msstate.edu
Website: http://www.sociology.msstate.edu

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

Admission Criteria

An applicant is required to have completed prerequisite undergraduate courses in statistics, sociological theory, and sociological methodology. The applicant must submit

1. a completed application form for graduate study at MSU;
2. official transcripts from previous institutions;
3. a GPA of 3.00 on the last two years of baccalaureate work;
4. an academic writing sample in English [a sample of the student's choice];
5. General Graduate Records Examination [GRE] scores;
6. three letters of recommendation [from people who know the student's academic abilities and potential];

7. a statement of purpose [explaining why the student wishes to study Sociology at MSU and how the program at MSU will assist the student in attaining goals].

Provisional Admission

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

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.

Master of Science in Sociology - Thesis

SO 8103	Graduate Theory I	3
SO 8213	Research Design	3
SO 8274	Graduate Social Statistics I	4
Additional coursework [1]		14
SO 8000	Thesis Research/ Thesis in Sociology	6
Total Hours		**30**

1 A minimum of 12 GPA credit hours of graduate coursework must be taken at the 8000 level.

Upon the completion of coursework for a student's program of study, a student 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.

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

Master of Science in Sociology - Non-Thesis

SO 8103	Graduate Theory I	3
SO 8213	Research Design	3
SO 8274	Graduate Social Statistics I	4
Additional coursework [1]		26
Total Hours		**36**

1 A minimum of 15 GPA credit hours of graduate coursework must be taken at the 8000 level.

A student must take an exit examination. The 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 exit examination is a five hour, in-class exam which covers social theory, social research methods and statistic, and general sociology.

Doctor of Philosophy in Sociology

SO 8213	Research Design [1]	3
SO 8103	Graduate Theory I [1]	3
SO 8113	Graduate Theory II [1]	3
SO 8274	Graduate Social Statistics I [1]	4
SO 8284	Graduate Social Statistics II [1]	4
Sociology theory, methods, statistics (tools) coursework		4
General sociology coursework		9
Area of specialization coursework		15
Electives		9
SO 9000	Dissertation Research /Dissertation in Sociology	20
Total Hours		**74**

1 After completing the six courses, a Ph.D. student is required to pass a Ph.D. qualifying examination in the areas of theory, methods, and statistics. The student typically takes the qualifying exam during the third or fourth semester of study.

After completing all coursework, the student takes a comprehensive preliminary examination in the area of specialization. Areas of specialization include

1. Social Demography;
2. Criminology/Social Disorganizational/Criminal Justice;
3. Rural Sociology/Social Change and Development; and
4. Social Inequality and Stratification.

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.

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

Minor in Sociology

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

College of Business

Dean: Dr. Sharon Oswald
Director of Graduate Studies in Business: Dr. Nicole Ponder
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Department	Degree and Major	Concentration	Thesis	Non-Thesis	Starkville	Meridian	Distance
Adkerson School of Accountancy	Master of Professional Accountancy - Accounting			X	X		
Adkerson School of Accountancy	Master of Professional Accountancy - Accounting	Systems		X	X		
Adkerson School of Accountancy	Master of Taxation - Taxation			X	X		
Department of Finance and Economics	Master of Arts - Economics		X	X	X		
Department of Finance and Economics	Doctor of Philosophy - Graduate Applied Economics[1]				X		
Department of Management and Information Systems	Master of Science - Information Systems			X	X		X
Business Administration	Master of Business Administration - Business Administration			X	X	X	X
Business Administration	Master of Business Administration - Project Management			X	X		X

Business Administration	Doctor of Philosophy - Business Administration	Finance	X
Business Administration	Doctor of Philosophy - Business Administration	Information Systems	X
Business Administration	Doctor of Philosophy - Business Administration	Management	X
Business Administration	Doctor of Philosophy - Business Administration	Marketing	X

[1] Interdisciplinary curriculum offered in conjunction with Department of Agricultural Economics in the College of Agriculture and Life Sciences

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 is an overview of each department along with the specific courses offered by the faculty in each.

Doctoral Programs

The College of Business offers the following two doctoral programs:

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

Adkerson School of Accountancy

Director: Dr. Shawn Mauldin
Graduate Coordinator: Dr. Frances McNair
300 McCool Hall
Box EF
Mississippi State, MS 39762
Telephone: 662-325-3710
Fax: 662-325-1646
E-mail: sac@business.msstate.edu

Graduate study is offered in the Adkerson School of Accountancy leading to the Master of Professional Accountancy (M.P.A.) degree or the Master of Taxation (M.TX.) degree. The objective of graduate study at the master's level is to further the student's education in business and accounting in preparation for a professional career in accounting.

The Adkerson School of Accountancy cooperates in interdisciplinary programs leading to the Master of Business Administration (M.B.A.) and the Doctor of Philosophy (Ph.D.) in Business Administration degree (see the Business Administration section of this publication).

Master of Professional Accountancy

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 an acceptable GMAT score, a G.P.A. of 3.00/4.00 over the last 60 hours of baccalaureate work, an appropriate GPA on all upper-level accounting courses attempted in baccalaureate work, and acceptable recommendation letters. When a student is deficient in one of the criteria cited, the student's application, nevertheless, may be considered for admission based on the strength of the materials contained in the student's application. However, reasonable minimum levels of performance must be achieved in both the applicant's GPA and GMAT scores.

International Applicant

An international applicant not holding a prior degree from a U.S. institution must submit an indicator of English proficiency including one of the following:

1. A TOEFL score of 575 PBT (233 CBT or 84 iBT) or
2. an IELTS score of 7.0.

Other indicators of English proficiency may be considered on a case by case basis.

Provisional Admission

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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.**

Prerequisite Courses

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

ACC 3003	Accounting Information Systems I	3
ACC 3013	Cost Accounting	3
ACC 3023	Intermediate Accounting I	3
ACC 3033	Intermediate Accounting II	3
ACC 4013	Income Tax I	3
ACC 4033	Auditing	3
EC 2113	Principles of Macroeconomics	3
EC 2123	Principles of Microeconomics	3
FIN 3123	Financial Management	3
BL 2413	The Legal Environment of Business	3

Computer literacy and written communication skills are other prerequisites.

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

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

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, an appropriate GPA on all upper-level accounting courses attempted in baccalaureate work, and acceptable recommendation letters. When a student is deficient in one of the criteria cited, the student's application, nevertheless, may be considered for admission based on the strength of the materials contained in the student's application. However, reasonable minimum levels of performance must be achieved in both the applicant's GPA and GMAT scores.

International Applicant

An international applicant not holding a prior degree from a U.S. Institution must submit an indicator of English proficiency including one of the following:

1. A TOEFL score of 575 PBT (233 CBT or 84 iBT) or
2. an IELTS score of 7.0.

Other indicators of English proficiency may be considered on a case by case basis.

Provisional Admission

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

Prerequisite Courses

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

ACC 3003	Accounting Information Systems I	3
ACC 3013	Cost Accounting	3
ACC 3023	Intermediate Accounting I	3
ACC 3033	Intermediate Accounting II	3
ACC 4013	Income Tax I	3
ACC 4033	Auditing	3
EC 2113	Principles of Macroeconomics	3

EC 2123	Principles of Microeconomics	3
FIN 3123	Financial Management	3
BL 2413	The Legal Environment of Business	3

Computer literacy and written communication skills are other prerequisites.

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

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.

Master's Degree 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 (http://catalog.msstate.edu/graduate/colleges-degree-programs/business/accountancy) for further information.

Master of Professional Accountancy

Required Accounting Courses		
ACC 6023	Advanced Accounting [1]	3
ACC 6063	Income Tax II [1]	3
ACC 8023	Advanced Managerial Accounting	3
ACC 8013	Seminar in Financial Accounting Theory	3
ACC 8033	Business Assurance Services	3
Accounting Electives		
Select two of the following:		6
ACC 6043	Municipal and Governmental Accounting [1]	
ACC 6053	International Accounting	
ACC 8043	Fraud Examination	
ACC 8053	Financial Accounting Policy	
ACC 8063	Research in Tax Practice and Procedures	
ACC 8073	Taxation of Corporations and Shareholders	
ACC 8093	Taxation of Partnerships, S Corporations, Trusts, and Estates	
ACC 8113	Advanced Individual Taxation and Wealth Management	
ACC 8123	Tax Topics	
Business Electives		
Select 9 hours of graduate-level business or accounting courses.		9
Total Hours		**30**

[1] If not taken as an undergraduate.

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

Master of Professional Accountancy, Systems Concentration

Required Accounting Courses		
ACC 6023	Advanced Accounting [1]	3
ACC 6063	Income Tax II [1]	3
ACC 8023	Advanced Managerial Accounting	3
ACC 8013	Seminar in Financial Accounting Theory	3
ACC 8033	Business Assurance Services	3
Accounting Electives		
Select two of the following:		6
ACC 6043	Municipal and Governmental Accounting [1]	
ACC 6053	International Accounting	
ACC 8043	Fraud Examination	
ACC 8053	Financial Accounting Policy	
ACC 8063	Research in Tax Practice and Procedures	
ACC 8073	Taxation of Corporations and Shareholders	
ACC 8093	Taxation of Partnerships, S Corporations, Trusts, and Estates	
ACC 8113	Advanced Individual Taxation and Wealth Management	
ACC 8123	Tax Topics	
Concentration Courses		
ACC 8043	Fraud Examination	3
BIS 8213	Advanced Systems Analysis and Design [2]	3
BIS 8313	Advanced Database Design Administration	3
Total Hours		**30**

[1] If not taken as an undergraduate.

[2] Programming prerequisites may be required.

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

Master of Taxation

Required Tax Courses		
ACC 8063	Research in Tax Practice and Procedures	3
ACC 8073	Taxation of Corporations and Shareholders	3
ACC 8113	Advanced Individual Taxation and Wealth Management	3
ACC 8093	Taxation of Partnerships, S Corporations, Trusts, and Estates	3
ACC 8XXX	Any taxation course	3
Other Required Courses		

ACC 8013	Seminar in Financial Accounting Theory	3
ACC 8033	Business Assurance Services	3
Electives		
ACC XXXX or BUS XXXX	Graduate-level accounting or business courses	9
Total Hours		**30**

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

Business Administration - Ph.D.

Director of Graduate Studies in Business: Dr. Nicole Ponder
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Mississippi State, MS 39762
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E-mail: gsb@business.msstate.edu

The College of Business offers a full-time degree program leading to the Doctor of Philosophy (Ph.D.) in Business Administration. The concentrations available under this degree include the following.

- Information Systems
- Finance
- Management
- 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; 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. A GRE score may be presented in lieu of the GMAT, but the GMAT is strongly preferred. 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.

Business Computer Systems	3
Business Finance	3
Business Statistics	6
Calculus	3
Legal Environment of Business	3
Principles of Accounting	6
Principles of Economics	6
Principles of Management	3
Principles of Marketing	3
Production Management	3

Graduate Committee

Each student's course of study and research is directed by a committee of graduate faculty called a graduate committee. A graduate committee must contain at least five members, all of whom must be members of the graduate faculty. The graduate committee that works with the student through the coursework stage of the program is the graduate program committee. When the student completes all coursework and requirements thereof, the graduate program committee is dissolved and the graduate committee is reformulated as the graduate dissertation committee.

Program Committee

The initial graduate committee is the student's program committee. The committee is composed of:

- the chairman, who must be a Level I member of the graduate faculty and from the concentration field;
- at least two other members from the concentration field of study;
- one member from the support area or minor field; and
- one member from the College of Business.

This graduate committee is charged with specifying the courses that will constitute the student's program of graduate study and administering the comprehensive examination. The graduate program committee is dissolved when the student passes the comprehensive examination.

Dissertation Committee

The graduate committee formed following a successful comprehensive examination is the 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.

Transfer of Credits

It is anticipated that an appreciable percentage of the students in the doctoral program will hold master's degrees in business or economics from recognized institutions for which they will be allowed credit approximating the first year of the doctoral program. In exceptional cases, limited additional transfer credit may be allowed. In no case will transfer credit be allowed for courses in which grades of C or less were earned.

Residence Requirement

At some time in the doctoral coursework, the student shall be required to devote two consecutive regular semesters (fall/spring) with a minimum load of 9 hours per semester to the graduate program at Mississippi State University.

Academic Performance

A student in any Ph.D. program in the College of Business may not continue in the program with grades below B in more than 6 hours of core coursework, regardless of the overall average. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on core coursework. In addition the normal MSU requirements for satisfactory progress in a Ph.D. program will be applied.

Time Limit

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

For More Information

For more information about the Ph.D. program in Business or application materials, contact the Director, Graduate Studies in Business (http://catalog.msstate.edu/graduate/colleges-degree-programs/business/business-administration-phd/#director-graduate-studies).

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.

Doctor of Philosophy in Business Administration

Concentration Minimum Requirement	
24 hours with no more than 6 hours outside the College of Business	24
Support Area Minimum Requirement	
9 hours with no more than 6 hours outside the College of Business [1,2]	9
Optional Minor	
12 hours graduate coursework in one discipline [2]	12
Research and Teaching Tools [3]	
Research methods [4]	9

BQA 9333	Statistical Methods for Business Research	3
BQA 9533	Advanced Statistics for Business Decisions	3
Graduate-level instructional methods course		3
Dissertation Research Requirements		
20 hours dissertation research in concentration [5]		20
Total Hours		**71-74**

1. 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.
2. Support Area Minimum Requirement or Optional Minor must be chosen.
3. None of the courses in this area may be counted toward the course requirements in the concentration or support area.
4. Courses are selected by the student's programming committee with the approval of the Director of Graduate Studies in Business.
5. All research hours must be taken in the student's program at Mississippi State University. All students who have completed coursework and/or who have been admitted into degree candidacy must be continuously registered during at least two academic terms per year.

The list includes the minimum coursework requirements beyond the baccalaureate stipulated by the graduate faculty in the College of Business for the Ph.D.

Examinations/Completion Requirements

The following written and oral examinations are required of all Ph.D. students.

Quantitative Area Qualifying Examination

The Qualifying Examination in the Quantitative Area is a three-hour written examination covering the subject matter of BQA 9333 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.

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.

1. Concentration Field Preliminary Examination—An eight-hour written examination is required in the concentration field.
2. Minor Field Preliminary Examination(s)—A four-hour written examination is required in each minor field.

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.

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.

Dissertation and Final Defense

The dissertation is required of all candidates for the doctorate and must show mastery of the techniques of research and a distinct contribution to the field under investigation and study. The dissertation must conform to the regulations set by the Graduate Council as specified in the manual *Standards for Preparing Dissertations and Theses.* This manual is available on-line at http://library.msstate.edu/thesis/index.asp.

The final defense of the dissertation is an oral examination. The examination is scheduled by the chairman of the graduate dissertation committee through the Office of Graduate Studies in Business and is administered by the student's graduate dissertation committee. The student must be enrolled during the semester in which the examination is administered. The request to schedule the final defense must be made at least two weeks prior to the anticipated date of the examination. The examination will not be scheduled sooner than two weeks after a copy of the final manuscript has been distributed to all members of the graduate dissertation committee and the unit within which the concentration field is housed. To qualify for graduation in a given semester the final defense must take place at least by the "Last day for final examination for doctoral degree" as published in the graduate academic calendar of this publication. The final defense of the dissertation is open to all interested parties and copies of the manuscript are available through the unit housing the concentration. At the conclusion of the public defense, the graduate dissertation committee will meet in closed session, with and/or without the student, regarding the results of the final defense of the dissertation. The committee may pass subject to revisions, delay the decision, or fail the student on the final defense. A student may pass the examination with no more than one failing or dissenting vote from a member of the graduate dissertation committee. The results of the final defense are transmitted to the Office of Graduate Studies in Business by the chairman of the graduate dissertation committee at the conclusion of the meeting. To qualify for graduation in a given semester, the Office of Graduate Studies in Business must report the results of the final defense to the Office of Graduate School at least by the "Last day for submitting examination results" as published in the graduate academic calendar of this publication.

A student who fails the final examination cannot apply for reexamination until a period of six months has elapsed from the date of the original examination. Two failures on the final examination will result in the student's being terminated from further consideration as a doctoral candidate.

For further information on **dissertation and defense** please refer to the "Doctor of Philosophy" section in this publication.

Finance and Economics

Department Head: Dr. Michael J. Highfield
Area Advisor, Ph.D. concentration in Finance: Dr. Jacqueline L. Garner
Graduate Coordinator and Area Advisor, Ph.D. in Applied Economics and M.A. in Applied Economics: Dr. Randall C. Campbell

312 McCool Hall
Box 9580
Mississippi State, MS 39762
Telephone: 662-325-2342
Finance Area Advisor's Email: jgarner@business.msstate.edu
Economics Area Advisor's Email: rcampbell@business.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.

Master of Arts in Economics

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 2015 and subsequent odd-numbered years.

Provisional Admission

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 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.

Ph.D. in Applied Economics

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 2015 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.

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 core courses with a grade of C or higher
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 and Life Sciences I	3
EC 3113	Intermediate Macroeconomics	3
EC 3123	Intermediate Microeconomics	3
ST 2113	Introduction to Statistics	3

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.

Master of Arts in Economics - Thesis

Core Courses		
EC 8133	Econometrics I	3
EC 8163	Microeconomics I	3
EC 8173	Macroeconomics I	3
Additional Coursework		
EC XXXX	Graduate-level coursework	15
EC 8000	Thesis Research/ Thesis in Economics	6
Total Hours		**30**

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.

Master of Arts in Economics - Non-Thesis

Core Courses		
EC 8133	Econometrics I	3
EC 8163	Microeconomics I	3
EC 8173	Macroeconomics I	3
Additional Coursework		
EC XXXX	Graduate-level coursework	21
Total Hours		**30**

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.

Doctor of Philosophy in Applied Economics

Core Courses		
EC 8163	Microeconomics I	3
EC 8263	Microeconomics II	3
EC 8173	Macroeconomics I	3
EC 8133	Econometrics I	3
EC 8145		3
Additional Coursework		
EC XXXX	Graduate-level coursework	33
EC 9000	Dissertation Research/ Dissertation in Economics	20
Total Hours		**68**

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.

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.

Doctor of Philosophy in Business Administration, Finance Concentration

See the Business Administration - Ph.D. Programs of Study (http://catalog.msstate.edu/graduate/colleges-degree-programs/business/business-administration-phd/#programsofstudytext).

Management and Information Systems

Department Head: Dr. James J. Chrisman
Area Advisors:
M.S.I.S.: Dr. Robert Otondo
Ph.D. concentration in Management: Dr. Allison W. Pearson
Ph.D. concentration in Information Systems: Dr. Kent Marett

320 McCool Hall
Box 9581
Mississippi State, MS 39762
Telephone: 662-325-3928
E-mail: gsb@business.msstate.edu

The Department of Management and Information Systems offers the following graduate programs:

- Master of Science in Information Systems (M.S.I.S.)
- Doctor of Philosophy in Business Administration with a concentration in Information Systems (Ph.D.)
- Doctor of Philosophy in Business Administration with a concentration in Management (Ph.D.)

The department also participates in the interdisciplinary Master of Business Administration (M.B.A.) program. See the Business Administration section of this publication for M.B.A. and Ph.D. information.

Master of Science in Information Systems

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

Admission Criteria

The applicant for the Master of Science in Information Systems (M.S.I.S.) program should hold a bachelor's degree from a fully recognized four-year institution of higher learning that enjoys unconditional accreditation by appropriate regional accrediting agencies. The applicant must meet all general requirements stated in this publication.

The applicant for the M.S.I.S. program must have a grade point average of 3.00/4.00 or higher over the last 60 hours of undergraduate coursework. Admission to the M.S.I.S. program also requires a competitive score on the Graduate Management Admission Test (GMAT) or the Graduate Record Examination (GRE). While either GMAT or GRE scores are accepted, the GMAT is strongly preferred.

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/GRE scores.

Our full-time, on-campus, and distance M.S.I.S programs accept applications for the fall, spring, and summer semesters. The deadlines for submitting all application materials, including GMAT or GRE scores, are the same general deadlines used by MSU's Office of the Graduate School. These deadlines can be found in the Admissions Requirements (http://catalog.msstate.edu/graduate/admissions-information/admission-requirements) section of the Graduate Catalog.

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

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of

study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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.**

In addition, students must complete the foundation courses listed below or have equivalent undergraduate credit. The College of Business offers survey courses in place of undergraduate prerequisites. These are especially designed for non-business undergraduates and may be taken before or during the M.S.I.S. program. For each row in the table below, students without equivalent undergraduate credit must choose either the course from Column A or–if available–alternative course(s) from Column B.

A	B
ACC 2203 Survey of Accounting	ACC 2013 Principles of Financial Accounting & ACC 2023 Principles of Managerial Accounting
BQA 8443 Statistical Analysis for Business Decision Making*	BQA 2113 Business Statistical Methods I & BQA 3123 Business Statistical Methods II
MGT 8063 Survey of Management*	MGT 3114 Principles of Management & Production Management
EC 4043 Survey of Economics*	EC 2113 Principles of Macroeconomics & EC 2123 Principles of Microeconomics
FIN 3123 Financial Management	
MKT 3013 Principles of Marketing	
3 hours of programming courses**	

*Offered only through the distance program.

**Examples of prerequisite classes that would fit the programming requirement include the following. Note that these are just examples. Any 3 hours of programming will be allowed.

Some Prerequisite Courses Fulfilling Programming Requirement

BIS 1523	Web Development I	3
BIS 2523	Web Development II	3
BIS 3523	Advanced Languages I	3
CSE 1233	Computer Programming with C	3
CSE 1273	Computer Programming with Java	3
CSE 1284	Introduction to Computer Programming	4

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.

Master of Science in Information Systems

BIS Required Courses		
BIS 8113	Management Information Technology and Systems	3
BIS 8213	Advanced Systems Analysis and Design	3
BIS 8313	Advanced Database Design Administration	3
BIS 8513	Business Telecommunications	3
BIS 8613	MIS Administration	3
BIS 8753	Information Systems Collaborative Project [1]	3
BIS Elective Courses [2]		
Select two of the following: [3]		6
BIS 6113	Business Information Systems Security Management	
BIS 6513	Microcomputers and Networks	
BIS 6523	Business Programming with COBOL	
BIS 6533	Decision Support Systems	
Free electives		3
Programming courses [4]		3
Total Hours		**30**

1. 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.
2. The student must take at least two 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.
3. NOTE: "Students who have already taken a course for credit at the 4000 level are not allowed to enroll in the same course for credit at the 6000 level without explicit permission of the instructor and graduate coordinator of the department offering the course, and the dean of the Graduate School." (MSU Academic Operating Policy and Procedure 11.04 (Revised March 2014), Item #5; available at http://www.policies.msstate.edu/policypdfs/1104.pdf)
4. Must be completed either before or in conjunction with the rest of the coursework.

No more than 6 hours may be below the 8000 level.

Doctor of Philosophy in Business Administration with Information Systems Concentration

See the Business Administration - Ph.D. Programs of Study (http://catalog.msstate.edu/graduate/colleges-degree-programs/business/business-administration-phd/#programsofstudytext).

Doctor of Philosophy in Business Administration with Management Concentration

See the Business Administration - Ph.D. Programs of Study (http://catalog.msstate.edu/graduate/colleges-degree-programs/business/business-administration-phd/#programsofstudytext).

Graduate Minor in Information Systems

Select one of the following: [1]		3
BIS 6113	Business Information Systems Security Management	
BIS 6513	Microcomputers and Networks	
BIS 6523	Business Programming with COBOL	
BIS 6533	Decision Support Systems	
Select two of the following:		6
BIS 8213	Advanced Systems Analysis and Design	
BIS 8313	Advanced Database Design Administration	
BIS 8413	Data Analytics	
BIS 8513	Business Telecommunications	
BIS 8613	MIS Administration	
Total Hours		**9**

1 NOTE: "Students who have already taken a course for credit at the 4000 level are not allowed to enroll in the same course for credit at the 6000 level without explicit permission of the instructor and graduate coordinator of the department offering the course, and the dean of the Graduate School.") MSU Academic Operating Policy and Procedure 11.04 (Revised March 2014), Item #5; available at http://www.policies.msstate.edu/policypdfs/1104.pdf)

Minimum GPA of 3.00 is required.

The master's 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.

Marketing, Quantitative Analysis, and Business Law

Department Head: Dr. Jason Lueg
Area Advisor: Dr. Joel Collier, Ph.D. concentration in Marketing
324 McCool Hall
Box 9582
Mississippi State, MS 39762
Telephone: 662-325-3163
E-mail: mqabl@business.msstate.edu

The Department of Marketing, Quantitative Analysis, and Business Law cooperates in interdisciplinary programs leading to the Master of Business Administration degree (M.B.A.) (http://catalog.msstate.edu/graduate/colleges-degree-programs/business/mba) as well as the Doctor of Philosophy (Ph.D.) in Business Administration (http://catalog.msstate.edu/graduate/colleges-degree-programs/business/business-administration-phd) with a concentration in Marketing. See the Business Administration section of this publication for descriptions of these programs.

Master of Business Administration

Director of Graduate Studies in Business: Dr. Nicole Ponder
200 McCool Hall
Box 5288
Mississippi State, MS 39762
Telephone: 662-325-1891
E-mail: gsb@business.msstate.edu
Websites: http://www.business.msstate.edu/gsb/mba.php
http://www.distance.msstate.edu/mba

The College of Business offers the general M.B.A. degree as well as the M.B.A. with a concentration in Project Management. Both of the programs are offered on the Starkville campus as well as online. The M.B.A. program prepares students for successful careers in the business world by providing

1. in-depth knowledge of the business world including awareness of current business trends and challenges posed by the rapidly changing global economy and understanding of the ethical and social responsibilities of business;
2. enhanced skills in speaking and writing effectively, analyzing data and synthesizing information, working effectively with individuals and teams, utilizing technologies to support and communicate decisions, and making and recognizing well-reasoned decisions;
3. the ability to integrate acquired business knowledge in order to present and defend appropriate solutions to challenging business dilemmas and demonstrate effective leadership skills in a business setting.

Admission

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

An applicant for the M.B.A. program must take the Graduate Management Admission Test (GMAT) or the Graduate Record Examination (GRE). Admission to the M.B.A. program requires a competitive GPA and a competitive GMAT or GRE score administered within the last five years.

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

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

Our full-time, on-campus program accepts applications for the summer 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.

Transfer of Credit

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

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. 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.

Master of Business Administration

Foundation		
Foundation coursework [1]		
Core Courses		
MGT 8113	Leadership Skills for Managerial Behavior	3
MKT 8153	Strategic Marketing Management	3
EC 8103	Economics for Managers	3
FIN 8113	Corporate Finance	3
ACC 8213	Financial Statement and Management Accounting Report Analysis for Decision Making	3
BIS 8113	Management Information Technology and Systems	3
BL 8113	Law, Business, Ethics, and Dispute Resolution	3
BQA 8233	Quantitative Analysis and Business Research	3
MGT 8123	Strategic Business Consulting [2]	3
Electives		
3 hours (selected with advisor's advice and consent)		3
Total Hours		**30**

1 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.

2 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.

Graduate Minor in Business Administration

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

Master of Business Administration, Project Management Concentration

Core Courses		
ACC 8213	Financial Statement and Management Accounting Report Analysis for Decision Making	3
MGT 8113	Leadership Skills for Managerial Behavior	3
BIS 8113	Management Information Technology and Systems	3
BQA 8233	Quantitative Analysis and Business Research	3
MKT 8153	Strategic Marketing Management	3
EC 8103	Economics for Managers	3
FIN 8113	Corporate Finance	3
IE 8583	Enterprise Systems Engineering	3
or IE 6333	Production Control Systems I	
IE 6533	Project Management	3
IE 6573	Process Improvement Engineering	3
BL 8113	Law, Business, Ethics, and Dispute Resolution	3
MGT 8123	Strategic Business Consulting	3
Total Hours		**36**

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.

College of Education

Dean: Dr. Richard Blackbourn
Associate Dean: Dr. Terry Jayroe
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Fax: 662-325-8784
Website: http://www.educ.msstate.edu

Degree Programs

Department	Degree and Major	Concentration	Thesis	Non-Thesis	Starkville	Meridian	Distance
Counseling, Educational Psychology, and Foundations	Master of Science - Counselor Education	Clinical Mental Health		X	X	X	
Counseling, Educational Psychology, and Foundations	Master of Science - Counselor Education	College Counseling		X	X	X	
Counseling, Educational Psychology, and Foundations	Master of Science - Counselor Education	Rehabilitation		X	X		
Counseling, Educational Psychology, and Foundations	Master of Science - Counselor Education	School Counseling		X	X	X	
Counseling, Educational Psychology, and Foundations	Master of Science - Counselor Education	Student Affairs		X	X		
Counseling, Educational Psychology, and Foundations	Master of Science - Educational Psychology	General Educational Psychology		X	X		
Counseling, Educational Psychology, and Foundations	Master of Science - Educational Psychology	Psychometry		X	X		
Counseling, Educational Psychology, and Foundations	Educational Specialist - Education	Counselor Education	X	X	X	X	
Counseling, Educational Psychology, and Foundations	Educational Specialist - Education	School Psychology	X	X	X		
Counseling, Educational Psychology, and Foundations	Doctor of Philosophy - Educational Psychology	General Educational Psychology			X		
Counseling. Educational Psychology, and Foundations	Doctor of Philosophy - Educational Psychology	School Psychology			X		
Counseling, Educational Psychology, and Foundations	Doctor of Philosophy - College/ Postsecondary Student Counseling & Personnel Services				X		

Counseling, Educational Psychology, and Foundations	Doctor of Philosophy - Counselor Education/Student Counseling & Guidance Services				X			
Curriculum, Instruction, and Special Education	Master of Arts in Teaching - Middle Level Alternative Route			X				X
Curriculum, Instruction, and Special Education	Master of Arts in Teaching - Secondary Teacher Alternate Route			X		X		X
Curriculum, Instruction, and Special Education	Master of Arts in Teaching - Special Education			X				X
Curriculum, Instruction, and Special Education	Master of Science - Elementary Education	Early Childhood Education		X	X	X		
Curriculum, Instruction, and Special Education	Master of Science - Elementary Education	Middle Level Education		X	X	X		
Curriculum, Instruction, and Special Education	Master of Science - Elementary Education	General Elementary Education		X	X	X		
Curriculum, Instruction, and Special Education	Master of Science - Secondary Education			X	X	X		X
Curriculum, Instruction, and Special Education	Master of Science - Special Education			X	X			
Curriculum, Instruction, and Special Education	Educational Specialist - Education	Elementary Education	X	X	X	X		
Curriculum, Instruction, and Special Education	Educational Specialist - Education	Secondary Education	X	X	X	X		
Curriculum, Instruction, and Special Education	Educational Specialist - Education	Special Education	X	X	X			
Curriculum, Instruction, and Special Education	Doctor of Philosophy - Curriculum & Instruction	Early Childhood Education			X			
Curriculum, Instruction, and Special Education	Doctor of Philosophy - Curriculum & Instruction	Elementary Education			X			
Curriculum, Instruction, and Special Education	Doctor of Philosophy - Curriculum & Instruction	General Curriculum & Instruction			X			
Curriculum, Instruction, and Special Education	Doctor of Philosophy - Curriculum & Instruction	Reading Education			X			

Curriculum, Instruction, and Special Education	Doctor of Philosophy - Curriculum & Instruction	Secondary Education			X			
Curriculum, Instruction, and Special Education	Doctor of Philosophy - Curriculum & Instruction	Special Education			X			
Instructional Systems and Workforce Development	Master of Science - Instructional Technology	Distance Education	X	X	X			
Instructional Systems and Workforce Development	Master of Science - Instructional Technology	Instructional Design	X	X	X			
Instructional Systems and Workforce Development	Master of Science - Instructional Technology	Multimedia	X	X	X			
Instructional Systems and Workforce Development	Master of Science - Technology		X	X	X			
Instructional Systems and Workforce Development	Educational Specialist - Education	Technology	X	X	X			
Instructional Systems and Workforce Development	Doctor of Philosophy - Instructional Systems & Workforce Development				X			
Instructional Systems and Workforce Development	Veterans' Certificate						X	
Kinesiology	Master of Science - Kinesiology	Exercise Physiology	X	X	X			
Kinesiology	Master of Science - Kinesiology	Sport Administration	X	X	X			
Kinesiology	Master of Science - Kinesiology	Sport Pedagogy	X	X	X			
Kinesiology	Doctor of Philosophy - Kinesiology	Exercise Science			X			
Kinesiology	Doctor of Philosophy - Kinesiology	Sport Studies			X			
Educational Leadership	Master of Arts in Teaching - Community College Education			X	X	X	X	
Educational Leadership	Master of Science - School Administration			X	X	X		

Educational Leadership	Master of Science - Workforce Education Leadership		X				X
Educational Leadership	Educational Specialist - Education	School Administration	X	X	X		
Educational Leadership	Doctor of Philosophy - Community College Leadership						X
Educational Leadership	Doctor of Philosophy - Elementary, Middle and Secondary Education Administration			X			

Counseling, Educational Psychology, and Foundations

Department Head: Dr. David Morse
Graduate Coordinator (COE): Dr. Charles Palmer
Graduate Coordinator (EPY): Dr. Carlen Henington
508 Allen Hall
Box 9727
Mississippi State, MS 39762
Telephone: 662-325-3426
E-mail**:** dmorse@colled.msstate.edu
Website: http://www.cep.msstate.edu

Department Programs in Counseling

The Department of Counseling, Educational Psychology, and Foundations offers graduate programs in clinical mental health counseling; rehabilitation counseling; student affairs; college counseling; and school counseling.

The Master of Science degree programs in school counseling, rehabilitation counseling, and student affairs are planned programs, each consisting of 48 semester hours. The M.S. degree programs in clinical mental health counseling and college counseling are both planned programs consisting of 60 semester hours. An optional 60-semester hour program is available for rehabilitation counseling students.

Counseling doctoral applications are due February 1. Applications for master's and educational specialist programs are due March 1. Applications will be considered until full enrollment is attained. Applications may be reviewed at other times for general educational psychology. For further information, write to the Graduate Coordinator (http://catalog.msstate.edu/graduate/colleges-degree-programs/education/counseling-education-psychology/#graduate-coordinator).

The department prepares students for careers as school counselors, student affairs professionals in higher education, and as counselors in rehabilitation, college counseling centers, and other mental health community agencies. Teaching and research assistantships are available.

Counseling Program Accreditations

The M.S. program in rehabilitation counseling is accredited by the Council on Rehabilitation Education (CORE). The M.S. programs in school counseling, college counseling, and student affairs are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The clinical mental health counseling program is also accredited by CACREP.

The doctoral programs in counseling (PHCE) and in school counseling (PHSE) are also accredited CACREP. The school counseling program is also accredited by the National Council for Accreditation of Teacher Education (NCATE).

Graduate study in counseling offers preparation in counseling at three degree levels:

1. The Master of Science (M.S.) degree in Counselor Education with concentrations in clinical mental health counseling; rehabilitation counseling; student affairs; college counseling; and school counseling.
2. The Educational Specialist (Ed.S.) degree with concentrations in counseling and school psychology provide advanced coursework sought by students seeking licensure or higher levels of certification.
3. The Doctor of Philosophy (Ph.D.) degree with majors in College/Postsecondary Student Counseling & Personnel Services and Counselor Education/Student Counseling & Guidance Services.

Admission Criteria for Counseling Programs

Applications for master's and educational specialist programs are due by March 1. Counseling doctoral applications are due by February 1. Applications will be considered until full enrollment is attained. Applications may be reviewed at other times for general educational psychology. For further information, write to the Graduate Coordinator.

A student accepted into the M.S. degree program in counseling must hold a baccalaureate degree and a minimum GPA of 3.00 on the last 60 hours of undergraduate work. Satisfactory Graduate Record Examination (GRE) scores (verbal, quantitative, and analytic writing) taken within the past five years must be submitted.

A student accepted into the Ed.S. degree program with a 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).

A student accepted into a Ph.D. program must hold a master's degree from a CACREP- or CORE-accredited program in counseling or meet CACREP curriculum requirements as part of the doctoral program of study. Satisfactory results of the Graduate record Examination (GRE) taken with the past five years must be submitted.

Applicants for all counseling degree programs must also produce all other application requiements detailed by the Graduate School (e.g., letters of recommendation, statement of purpose).

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

Provisional Admission for Counseling Programs

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

Satisfactory Academic Performance

In addition to the requirements of Mississippi State University for graduate students, 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 "gatekeeper" courses include:

COE 8023	Counseling Theory	3
COE 8013	Counseling Skills Development	3
COE 8053	Practicum	3
COE 8073	Cultural Foundations in Counseling	3
COE 8150	Academic School Year Field Experience Practicum	1-9
COE 8730	Internship	6

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. The grade of C, while not considered a failing grade, is seen as indicative of *minimal* academic performance. Only two grades of C are allowed during a student's work on a degree. 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.

Department Programs in Educational Psychology

The department prepares students for careers as behavioral science researchers and evaluators, school psychologists, and faculty positions in behavioral science or school psychology training programs. Teaching, service, and research assistantships are available.

Educational Psychology Program Accreditations

The school psychology program degrees (Ed.S., Ph.D.) are accredited by the National Association of School Psychologists (NASP) an the American Psychological Association (APA).

There are two concentrations in Educational Psychology, general educational psychology and school psychology, with the following degree options.

1. The Master of Science (M.S.) degree with concentrations in general educational psychology and school psychology (psychometry, a non-terminal degree).
2. The Educational Specialist (Ed.S.) degree with a major in Education and concentration in school psychology. The Ed.S. degree is the minimum requirement to work as a school psychologist.
3. Doctor of Philosophy (PhD.) degree with concentrations in general educational psychology and school psychology.

General Educational Psychology Concentration

The concentration in General Educational Psychology is designed to prepare an individual for employment in research, teaching, and service settings. The four-year doctoral program involves coursework in psychological foundations, research, educational psychology, and, if the student chooses, a minor. Within the Educational Psychology specialty, students can choose to specialize in either cognition, learning, instruction, or measurement, statistics, and testing.

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

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

Applications are due March 1 each year. For further information, write to the Graduate Coordinator.

School Psychology/Psychometry Concentration

The School Psychology/Psychometry concentrations are based on a scientist-practitioner model with a behavioral focus. In addition to training

assessment, training is provided in consultation, academic interventions, behavior assessment, system-wide and individualized positive behavior interventions and supports, applied behavior analysis, and single-case research methodology so students in the program can identify, prevent, and remedy students' academic, behavioral, and psychosocial problems.

M.S. in Educational Psychology with Concentration in Psychometry

The M.S. in Educational Psychology with a concentration in Psychometry is a non-terminal degree designed to begin in the fall semester and be completed in three years. The concentration in psychometry leads to AA licensure from the Mississippi Department of Education. The degree is currently a 33-hour program with a 300-hour practicum. All students in this program must successfully complete the PRAXIS I examination en route to the degree and pass the master's comprehensive examination. Students in the M.S. program are expected to continue education at MSU in pursuit of either the educational specialist or doctoral degree.

Ph.D. in Educational Psychology with Concentration in School Psychology

The Ph.D. program in Educational Psychology with a concentration in School Psychology is accredited by the National Association of School Psychologists (NASP) and the American Psychological Association (APA). Students accepted into the Ph.D. program in School Psychology should either hold a master's degree in Psychometry or obtain AA certification in Psychometry within the first three years in the program. For students entering the program with only an undergraduate degree, the Ph.D. concentration in School Psychology is designed to be completed in five years. A minimum of 120 semester hours beyond the baccalaureate degree is necessary to earn a doctorate from the Department of Counseling and Educational Psychology. For students entering the program with an advanced degree, the PhD. Program with a concentration in School Psychology will require a minimum of three years of formal coursework. In addition to required coursework, doctoral students in the School Psychology concentration are required to present a minimum of one refereed presentation at a regional or national conference, submit one manuscript to a refereed journal, or seek to publish one book chapter or formal test review. Doctoral School Psychology students must also pass three examinations including the PRAXIS II in School Psychology (i.e., students must obtain a passing score as outlined by the National Association of School Psychologists), doctoral written comprehensive exam, and doctoral oral comprehensive exam. Also, students are required to complete a 2000-hour internship (APA-accredited preferred).

The deadline for applications to all programs (PhD. and Ed.S.) is January 15. For further information, write to the Graduate Coordinator.

Admission Criteria for Educational Psychology Major

The following are admission criteria for admission to the Educational Psychology degree program (additional requirements may be required):

1. An overall GPA on the bachelor's degree of at least 2.75;
2. Recent Graduate Record Examination (GRE) verbal, quantitative, and analytical writing scores;
3. External recommendations;
4. 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 GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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.**

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 program in either the general educational psychology or school psychology concentration.

Graduate Degree Requirements

Requirements for each counseling-related major and major/concentration degree program offered by the department are listed below.

Master of Science in Counselor Education, Clinical Mental Health Counseling Concentration

Prerequisites and Core Courses		
EPY 8263	Psychological Testing in Educational and Related Settings	3
COE 8013	Counseling Skills Development	3
COE 8023	Counseling Theory	3
COE 8043	Group Techniques and Procedures	3
COE 8053/8150	Practicum (requires a 100/600-clock hour practicum)	3
COE 8063	Research Techniques for Counselors	3
COE 8730/8740	Internship (requires a 600-clock hour internship)	6
Concentration Requirements		
COE 6903	Developmental Counseling and Mental Health	3
COE 8073	Cultural Foundations in Counseling	3
COE 8203	Placement and Career Development Counseling	3
COE 8303	Family Counseling Theory	3
COE 8633	Psychosocial Rehabilitation	3
COE 8703	Principles of Clinical Mental Health Counseling	3
COE 8773	Counseling the Chemically Dependent Client	3
or COE 8783	Counseling the Chemically Dependent Family	
COE 8803	Crisis Response in Counseling	3
Approved electives		12
Total Hours		**60**

Master of Science in Counselor Education, Rehabilitation Counseling Concentration

Prerequisites and Core Courses		
EPY 8263	Psychological Testing in Educational and Related Settings	3
COE 8013	Counseling Skills Development	3
COE 8023	Counseling Theory	3
COE 8043	Group Techniques and Procedures	3
COE 8053/8150	Practicum (requires a 100/600-clock hour practicum)	3
COE 8063	Research Techniques for Counselors	3
COE 8730/8740	Internship (requires a 600-clock hour internship)	6
Concentration Requirements		
COE 6373	Vocational Assessment of Special Needs Persons	3
COE 8073	Cultural Foundations in Counseling	3
COE 8353	Vocational Rehabilitation Counseling	3
COE 8363	Psychological Aspects of Disability	3
COE 8373	Medical Aspects of Disability	3
COE 8383	Job Placement in Rehabilitation	3
Approved electives		6
Total Hours		**48**

Master of Science in Counselor Education, Student Affairs in Higher Education Concentration

Prerequisites and Core Courses		
EPY 8263	Psychological Testing in Educational and Related Settings	3
COE 8013	Counseling Skills Development	3
COE 8023	Counseling Theory	3
COE 8043	Group Techniques and Procedures	3
COE 8053/8150	Practicum (requires a 100/600-clock hour practicum)	3
COE 8063	Research Techniques for Counselors	3
COE 8730/8740	Internship (requires a 600-clock hour internship)	6
Concentration Requirements		
COE 8203	Placement and Career Development Counseling	3
COE 8523	Student Development Theory	3
COE 8543	Legal Issues	3
COE 8553	Student Affairs in Higher Education	3
COE 8563	Introduction to Assessment in Student Affairs	3
HED 8113	Administration of Student Personnel Services in Higher Education	3
Approved electives		6
Total Hours		**48**

Master of Science in Counselor Education, School Counseling Concentration

Prerequisites and Core Courses		
EPY 8263	Psychological Testing in Educational and Related Settings	3
COE 8013	Counseling Skills Development	3
COE 8023	Counseling Theory	3
COE 8043	Group Techniques and Procedures	3
COE 8053/8150	Practicum (requires a 100/600-clock hour practicum)	3
COE 8063	Research Techniques for Counselors	3
COE 8730/8740	Internship (requires a 600-clock hour internship)	6
Concentration Requirements		
COE 6903	Developmental Counseling and Mental Health	3
COE 8203	Placement and Career Development Counseling	3
COE 8073	Cultural Foundations in Counseling	3
COE 8903	School Counseling Services	3
COE 8923	Seminar in School Counseling	3
Approved electives		9
Total Hours		**48**

Master of Science in Counselor Education, College Counseling Concentration

Prerequisites and Core Courses		
EPY 8263	Psychological Testing in Educational and Related Settings	3

COE 8013	Counseling Skills Development	3
COE 8023	Counseling Theory	3
COE 8043	Group Techniques and Procedures	3
COE 8053/8150	Practicum (requires a 100/600-clock hour practicum)	3
COE 8063	Research Techniques for Counselors	3
COE 8730/8740	Internship (requires a 600-clock hour internship)	9
Concentration Requirements		
COE 8203	Placement and Career Development Counseling	3
COE 8073	Cultural Foundations in Counseling	3
COE 8303	Family Counseling Theory	3
COE 8633	Psychosocial Rehabilitation	3
COE 8523	Student Development Theory	3
COE 8533	Literature of Student Affairs	3
COE 8543	Legal Issues	3
COE 8573	College Counseling Services	3
HED 8113	Administration of Student Personnel Services in Higher Education	3
Approved electives		6
Total Hours		**60**

Educational Specialist Requirements

In 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.

For additional information about the Ed.S. degree with an concentration in counseling, see the departmental handbook.

Educational Specialist in Education, Counselor Education Concentration - Thesis

EPY 6214	Educational and Psychological Statistics (or equivalent statistics course)	4
COE 8000	Thesis Research/ Thesis in Counselor Education & Educational Psychology	6
Other graduate-level coursework required by concentration area		20
Total Hours		**30**

Educational Specialist in Education, Counselor Education Concentration - Non-Thesis

EPY 6214	Educational and Psychological Statistics (or equivalent statistics course)	4
COE 7000	Directed Individual Study in Counselor Education & Educational Psychology	6
Other graduate-level coursework required by concentration area		20
Total Hours		**30**

Educational Specialist in Education, School Psychology Concentration - Thesis

EPY 6214	Educational and Psychological Statistics (or equivalent statistics course)	4
COE 8000	Thesis Research/ Thesis in Counselor Education & Educational Psychology	6
Other graduate-level coursework required by concentration area		20
Total Hours		**30**

Educational Specialist in Education, School Psychology Concentration - Non-Thesis

EPY 6214	Educational and Psychological Statistics (or equivalent statistics course)	4
COE 7000	Directed Individual Study in Counselor Education & Educational Psychology	6
Other graduate-level coursework required by concentration area		20
Total Hours		**30**

Doctor of Philosophy in College/ Postsecondary Student Counseling & Personnel Services

COE 8063	Research Techniques for Counselors	3
EPY 8214	Advanced Educational and Psychological Statistics	4
EPY 9213	Advanced Analysis in Educational Research	3
EPY 9263	Applied Research Seminar	3
HED 8133	University and Community College Instruction	3
COE 9013	Counseling Supervision	3
COE 9023	Advanced Counseling Theory	3
COE 9033	Advanced Seminar	3
COE 9043	Advanced Group Work and Systems	3
COE 9053	Advanced Multicultural Counseling	3
COE 9083	Advanced Assessment Techniques for Counseling	3
COE 9000	Dissertation Research/ Dissertation in Counselor Education & Educational Psychology	20
COE 9740	Advanced Doctoral Practicum (300 clock hours)	3
COE 9750	Internship (600 clock hours)	6
Select one of the following:		3
EDF 9443	Single-Subject Research Designs for Education	
EDF 9453	Introduction to Qualitative Research in Education	
HI 8923	Historiography and Historical Method	
Approved electives		3-15
Total Hours		**81**

Ph.D. students in counseling may also complete 12-18 hours in a minor area which would be considered elective hours. For additional information about the Ph.D. degrees in counseling and in school counseling, see the departmental handbook.

Doctor of Philosophy in Counselor Education/Student Counseling & Guidance Services

COE 8063	Research Techniques for Counselors	3
EPY 8214	Advanced Educational and Psychological Statistics	4

EPY 9213	Advanced Analysis in Educational Research	3
EPY 9263	Applied Research Seminar	3
HED 8133	University and Community College Instruction	3
COE 9013	Counseling Supervision	3
COE 9023	Advanced Counseling Theory	3
COE 9033	Advanced Seminar	3
COE 9043	Advanced Group Work and Systems	3
COE 9053	Advanced Multicultural Counseling	3
COE 9083	Advanced Assessment Techniques for Counseling	3
COE 9000	Dissertation Research/ Dissertation in Counselor Education & Educational Psychology	20
COE 9740	Advanced Doctoral Practicum (300 clock hours)	3
COE 9750	Internship (600 clock hours)	6
Select one of the following:		3
EDF 9443	Single-Subject Research Designs for Education	
EDF 9453	Introduction to Qualitative Research in Education	
HI 8923	Historiography and Historical Method	
Approved electives		3-15
Total Hours		**81**

Ph.D. students in counseling may also complete 12-18 hours in a minor area which would be considered elective hours. For additional information about the Ph.D. degrees in counseling and in school counseling, see the departmental handbook.

Doctoral Minor in Counseling

Counseling theory course	3
Cultural foundations in counseling course	3
Environmental specialty course	3
Counseling course	3
Total Hours	**12**

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.

Master of Science in Educational Psychology, General Educational Psychology Concentration

Major Core		
EPY 6214	Educational and Psychological Statistics	4
EPY 8253	Child & Adolescent Development & Psychopathology	3
EPY 8263	Psychological Testing in Educational and Related Settings	3
Concentration Requirements		
EPY 8293	Cognitive Development	3
EPY 8223	Psychological Foundations of Education	3
EDF 8363	Function and Methods of Research in Education	3
Cognitive elective [1]		3
EPY electives [1]		9-12
Related electives [1]		9-12
Total Hours		**40-46**

[1] See advisor.

Master of Science in Educational Psychology, Psychometry Concentration

EPY 6113	Behavioral and Cognitive Behavioral Interventions	3
EPY 6123	Applications of School Psychology	3
EPY 6133	Data-based Decision Making for Interventions in the School Setting	3
EPY 8493	Child Behavior and Personality Assessment	3
EPY 8690	Supervised Experiences in School Psychology I	3
EPY 8703	School Psychology	3
EPY 8723	Individual Assessment for Educational and Related Settings	3
EPY 8773	Assessment and Interventions for Academic Skills Deficits	3
EPY 8933	Integrated Psycho-Educational Assessment	3
EPY 9703	Contemporary, Legal, Ethical, and Professional Issues in School and Educational Psychology	3
EPY 9713	Advanced Psychological Consulting: Theory and Practice	3
Total Hours		**33**

Doctor of Philosophy in Education Psychology, General Educational Psychology Concentration

Major Core		
EPY 6214	Educational and Psychological Statistics	4
EPY 8113	History and Systems of Psychology	3
EPY 8214	Advanced Educational and Psychological Statistics	4
EPY 8253	Child & Adolescent Development & Psychopathology (or equivalent)	3
EPY 8263	Psychological Testing in Educational and Related Settings	3
EPY 8293	Cognitive Development (or equivalent)	3
EPY 8513	Psychometric Theory	3
EPY 9000	Dissertation Research /Dissertation in Educational Psychology	20
EPY 9213	Advanced Analysis in Educational Research	3
EPY 9723	Seminar in Contemporary School Psychology	3
EDF 9373	Educational Research Design	3
PSY 6403	Biological Psychology (or equivalent)	3
PSY 8613	Advanced Social Psychology (or equivalent)	3
Concentration Requirements		
EPY 8523	Psychology of the Gifted	3
EPY 8533	Practicum in Teaching Educational Psychology	3
EPY 6613		3
EDF 8353	Principles of Curriculum Development	3
EPY 9313	Education Evaluation Methods	3
EPY 8223	Psychological Foundations of Education	3
EDF 8363	Function and Methods of Research in Education	3
EPY 9263	Applied Research Seminar	3
EPY 7000	Directed Individual Study in Educational Psychology	3

PSY electives [1]	6
EDS elective [1]	3
Subspecialty electives [1]	9
Minor coursework	12-18
Total Hours	**115-121**

[1] See advisor.

Doctor of Philosophy in Education Psychology, School Psychology Concentration

Major Core		
EPY 6214	Educational and Psychological Statistics	4
EPY 8113	History and Systems of Psychology	3
EPY 8214	Advanced Educational and Psychological Statistics	4
EPY 8253	Child & Adolescent Development & Psychopathology (or equivalent)	3
EPY 8263	Psychological Testing in Educational and Related Settings	3
EPY 8293	Cognitive Development (or equivalent)	3
EPY 8513	Psychometric Theory	3
EPY 9000	Dissertation Research /Dissertation in Educational Psychology	20
EPY 9213	Advanced Analysis in Educational Research	3
EPY 9723	Seminar in Contemporary School Psychology	3
EDF 9373	Educational Research Design	3
PSY 6403	Biological Psychology (or equivalent)	3
PSY 8613	Advanced Social Psychology (or equivalent)	3
Concentration Requirements		
EPY 6113	Behavioral and Cognitive Behavioral Interventions	3
EPY 6123	Applications of School Psychology	3
EPY 6133	Data-based Decision Making for Interventions in the School Setting	3
EPY 8123	Assessment of Infants, Toddlers, and Special Populations	3
EPY 8133	Crisis Prevention and Intervention in Schools and Related Settings	3
EPY 8493	Child Behavior and Personality Assessment	3
EPY 8690	Supervised Experiences in School Psychology I	9
EPY 8703	School Psychology	3
EPY 8723	Individual Assessment for Educational and Related Settings	3
EPY 8763	Advanced Child Behavior & Cognitive-Behavioral Intervention	3
EPY 8773	Assessment and Interventions for Academic Skills Deficits	3
EPY 8790	Supervised Experiences in School Psychology II	9
EPY 8890	Supervised Experiences in School Psychology: III	3
EPY 8933	Integrated Psycho-Educational Assessment	3
EPY 9443	Single Subject Research Designs in Education	3
EPY 9703	Contemporary, Legal, Ethical, and Professional Issues in School and Educational Psychology	3
EPY 9713	Advanced Psychological Consulting: Theory and Practice	3
EPY 9730	Doctoral Internship in School Psychology	18
COE 8073	Cultural Foundations in Counseling	3
Total Hours		**142**

Educational Specialist Concentration in School Psychology

EPY 7000	Directed Individual Study in Educational Psychology	3
EPY 8763	Advanced Child Behavior & Cognitive-Behavioral Intervention	3
EPY 8690	Supervised Experiences in School Psychology I	3
EPY 8790	Supervised Experiences in School Psychology II	6
EPY 8780	Internship in School Psychology	12
EPY 9443	Single Subject Research Designs in Education	3
EPY 8133	Crisis Prevention and Intervention in Schools and Related Settings	3
COE 8073	Cultural Foundations in Counseling	3
Select one of the following:		3
EPY 8123	Assessment of Infants, Toddlers, and Special Populations	
EPY 8890	Supervised Experiences in School Psychology: III	
Total Hours		**39**

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).

Doctoral Minor in School Psychology

Introduction to school psychology course	3
Behavior and personality assessment of children and youth course	3
Typical and atypical development of children and youth course	3
School-based and psychological interventions for children and youth course	3
Total Hours	**12**

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.

Students with a minor in School Psychology will be required to pass a minor examination. The School Psychology faculty will determine the content of the written minor examination. The minor examination is completed during a four-hour examination period. A student who fails the minor examination cannot apply to take another examination until four months have elapsed from the date of the original examination. Two failures of the minor examination will result in the student's dismissal from further consideration as a student with a minor in School Psychology.

Curriculum, Instruction, and Special Education

Department Head: Dr. Janice Nicholson, Interim
Graduate Coordinator: Dr. Dana Franz
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Admission Criteria

General Admission Criteria

The Department of Curriculum, Instruction, and Special Education (CISE) offers Master of Science degrees in Elementary Education, Secondary Education, and Special Education. The Department also offers the Master of Arts in Teaching-Middle Level (M.A.T.M.), the Master of Arts in Teaching–Secondary (M.A.T.S.), and the Master of Arts in Teaching-Special Education (M.A.T.X.) degrees. The Educational Specialist degree is offered with a major in Education and concentrations in Elementary Education, Secondary Education, and Special Education.

The Doctor of Philosophy is offered in Curriculum and Instruction with concentrations in Early Childhood, Elementary Education, General Education, Reading Education, Secondary Education, and Special Education. Most graduate programs in the Department of Curriculum, Instruction, and Special Education require applicants to hold or be eligible to obtain a Class A teaching certificate in the appropriate teaching field. Programs that do not require teaching licensure prior to admission include the M.A.T.S., M.A.T.M., and M.A.T.X. programs, Special Education certification-only or the Special Education non-certified Emotional/Behavioral Disorder programs, and the Ph.D. concentration in Curriculum and Instruction.

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

Summer	April 1
Fall	July 1
Spring	November 1

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); three letters of recommendation; statement of purpose (must include number of years and overview of teaching experience, if applicable); and official transcripts from each college or university attended. Official GRE scores are required for all programs except the M.A.T.S., M.A.T.M., and M.A.T.X. Applicants to an M.A.T. degree program are required to have passing scores on the Praxis Core and appropriate specialty-area test. Doctoral-program applicants must also include in their packet two scholarly writing samples and a curriculum vitae or résumé. Applicants must also document three years of teaching experience or other relevant experience. 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.

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 (http://catalog.msstate.edu/graduate/academic-policies/academic-requirements/#provisionaladmissiontext).

Residency Requirement

There is no general residency requirement for the master's degree. Residency for the specialist degree is a minimum of 30 weeks. A degree cannot be completed in two summer sessions or equivalent, neither in one regular semester and one summer session. For doctoral students there is no specific on-campus residence requirement. However, students will be required to complete one-half of required coursework and all dissertation credits from Mississippi State University.

Academic Performance for All Programs

The Department of Curriculum, Instruction, and Special Education defines satisfactory performance in graduate level coursework as a grade of S on thesis/dissertation hours and a GPA of at least 3.00 on all coursework attempted. CISE follows Graduate School policy relating to academic performance. 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.

Master of Science in Elementary Education with General Elementary Concentration

Core Courses		
EDF 8363	Function and Methods of Research in Education	3
EDE 8313	Theory and Development of Early Childhood Education	3
EDE 8623	Content Area Literacy Instruction	3
EDE 8633	The Teaching of Writing	3
EDE 8713	Educating Young Adults	3
EDE 8733	Teaching Physical, Life, and Earth Science in the Elementary and Middle School Classroom	3
EDE 8763	Elementary and Middle Level Mathematics Education	3
RDG 8713	Teaching Struggling Readers and Writers	3
Electives		
Select four electives including at least two EDE and/or RDG courses from the following:		12
EDE 8513	Curriculum and Program Developments in Early Childhood	
EDE 8423	Elementary School Methods	
EDE 8433	The Elementary School Curriculum	
EDE 8443	Seminar in Elementary Education	
EDE 8463	Readings and Research in Children's Literature	
EDE 8473	The Elementary Social Studies Curriculum	
EDE 8523	Practicum: Language Arts and Literacy Development in Early Childhood Education	
EDE 8533	Behavioral Experiences in Early Childhood Education	
EDE 8543	Mathematics Experiences in Early Childhood Education	
EDE 8893	Directed Readings in Teacher Education	
RDG 6113	Middle Level Literacy Development and Instruction	
RDG 8453	Research in Reading	
RDG 8593	Issues and Innovations in Reading	
RDG 8653	Teaching Reading in the Secondary Schools	
Total Hours		**36**

The written comprehensive examinations for the Master of Science degree are scheduled three times a year. The dates are the fourth Thursday of June, October, and February. Students can take the comprehensive examination when they are within 6 hours of completing their degree or are in their terminal semester, have an overall graduate GPA of 3.00, and have completed the courses that will be covered on the comprehensive examination.

Master of Science in Elementary Education with Early Childhood Concentration

Core Courses		
EDF 8363	Function and Methods of Research in Education	3
EDE 8313	Theory and Development of Early Childhood Education	3
EDE 8623	Content Area Literacy Instruction	3
EDE 8633	The Teaching of Writing	3
EDE 8713	Educating Young Adults	3
EDE 8733	Teaching Physical, Life, and Earth Science in the Elementary and Middle School Classroom	3
EDE 8763	Elementary and Middle Level Mathematics Education	3
RDG 8713	Teaching Struggling Readers and Writers	3
Concentration Courses		
EDE 8513	Curriculum and Program Developments in Early Childhood	3
Select two of the following courses.		6
EDE 8523	Practicum: Language Arts and Literacy Development in Early Childhood Education	
EDE 8533	Behavioral Experiences in Early Childhood Education	
EDE 8463	Readings and Research in Children's Literature	
EDE 8543	Mathematics Experiences in Early Childhood Education	
Select one elective graduate-level course		3
Total Hours		**36**

The written comprehensive examinations for the Master of Science degree are scheduled three times a year. The dates are the fourth Thursday of June, October, and February. Students can take the comprehensive examination when they are within 6 hours of completing their degree or are in their terminal semester, have an overall graduate GPA of 3.00, and have completed the courses that will be covered on the comprehensive examination.

This program of study requires a minimum of 36 semester hours of coursework beyond the bachelor's degree. The master's program in elementary education is designed to enhance the teaching practice of teachers in grades preK-8 and in all content areas.

Master of Science in Elementary Education with Middle Level Education Concentration

Core Courses		
EDF 8363	Function and Methods of Research in Education	3
EDE 8313	Theory and Development of Early Childhood Education	3
EDE 8623	Content Area Literacy Instruction	3
EDE 8633	The Teaching of Writing	3
EDE 8713	Educating Young Adults	3
EDE 8733	Teaching Physical, Life, and Earth Science in the Elementary and Middle School Classroom	3
EDE 8763	Elementary and Middle Level Mathematics Education	3
RDG 8713	Teaching Struggling Readers and Writers	3
Concentration Courses		
Select three of the following:		9
RDG 6113	Middle Level Literacy Development and Instruction	
EDE 8473	The Elementary Social Studies Curriculum	
EDS 8683	Dispositions and Reflective Practice in Teaching	
EDS 8243	Advanced Planning and Managing of Learning	

EDS 8653	Issues of Accountability in Schools	
EDS 8623	Principles of Effective Instruction in Secondary Schools	
RDG 8653	Teaching Reading in the Secondary Schools	
Elective		3
Total Hours		**36**

The written comprehensive examinations for the Master of Science degree are scheduled three times a year. The dates are the fourth Thursday of June, October, and February. Students can take the comprehensive examination when they are within 6 hours of completing their degree or are in their terminal semester, have an overall graduate GPA of 3.00, and have completed the courses that will be covered on the comprehensive examination.

This program of study requires a minimum of 36 semester hours of coursework beyond the bachelor's degree. The master's program in elementary education is designed to enhance the teaching practice of teachers in grades preK-8 and in all content areas.

Master of Science in Secondary Education

Core Courses		
EDF 8363	Function and Methods of Research in Education	3
EDS 8683	Dispositions and Reflective Practice in Teaching	3
EDS 8243	Advanced Planning and Managing of Learning	3
EDS 8613	Middle and Secondary School Curriculum	3
EDS 8653	Issues of Accountability in Schools	3
EDS 8663	Improving Instruction in Secondary Schools	3
One RDG 8000-level elective.		3
One Education elective approved by advisor		3
Two content courses (mathematics, science, social studies, English, reading, etc. as approved by advisor)		6
One elective from education or content area approved by advisor		3
Total Hours		**33**

This program requires a minimum of 33 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 written comprehensive examinations for the Master of Science degree are scheduled three times a year. The dates are the fourth Thursday of June, October, and February. Students can take the comprehensive examination when they are within 6 hours of completing their degree or are in their terminal semester, have an overall graduate GPA of 3.00, and have completed the courses that will be covered on the comprehensive examination.

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.

Master of Science in Special Education

This program requires a minimum of 30 hours of coursework beyond the bachelor's degree. Students must also pass a comprehensive written examination. The program is specifically intended to prepare classroom and resource teachers for public schools and institutions for students with disabilities. An add-on teaching-the-gifted endorsement is available. Clinical and practicum experiences are an integral component of the curriculum.

The written comprehensive examinations for the Master of Science degree are scheduled three times a year. The dates are the fourth Thursday of June, October, and February. Students can take the comprehensive examination when they are within 6 hours of completing their degree or are in their terminal semester, have an overall graduate GPA of 3.00, and have completed the courses that will be covered on the comprehensive examination.

Master of Arts in Teaching - Middle Level

Core Courses		
EDE 8113	Middle Level Management and the Young Adolescent	3
EDE 8123	Foundations for Teaching Middle Level Mathematics	3
RDG 8113	Middle Level Literacy Instruction	3
EPY 8473	Middle Level Assessment and Evaluation	3
RDG 8123	Supporting the Middle Level Literacy Learner	3
EDE 8133	Middle Level Internship I	3
EDF 8553	Research in the Classroom	3
EDE 8143	Middle Level Internship II	3
RDG 8133	Middle Level Content Area Literacy Instruction	3
EDE 8153	Professional Roles of the Middle Level Educator	3
Select one of the following:		3
EDE 8163	Teaching Middle Level Mathematics Content	
EDE 8173	Teaching Middle Level Social Studies	
EDE 8183	Teaching Middle Level Sciences	
Select one graduate-level diversity elective		3
Total Hours		**36**

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

Students in the M.A.T.M. will complete the comprehensive examination in the final semester of enrollment by registering for and passing the appropriate Praxis II Principles of Learning and Teaching examination through ETS.

Master of Arts in Teaching - Secondary

EDS 8113	Classroom Management in Secondary Education	3
EPY 8473	Middle Level Assessment and Evaluation	3
EDF 8243	Middle School Diversity	3
EDS 8886		3
EDS 66x3	Methods in Secondary Teaching	3
EDS 8896	Dimensions of Learning II	3
EDS 8153	Professional Roles of the Secondary Educator	3
RDG 8653	Teaching Reading in the Secondary Schools	3

EDS 8623	Principles of Effective Instruction in Secondary Schools	3
EDX 8173	Special Education in the Regular Classroom	3
EDS 8103	Advanced Methodologies in Middle and Secondary Education	3
or TKT 6803	Integrating Technology for Meaningful Learning	
EDF 8553	Research in the Classroom	3
Total Hours		**36**

The M.A.T.S. program is an alternate route secondary licensure program of study that consists of 36 semester hours of graduate-level coursework. It is designed for a candidate with a bachelor's degree in a content discipline or with significant higher-level coursework in a single discipline who wishes to prepare for a career as a teacher. In addition to the criteria for admission to a Master of Science degree program (with the exception of a teaching license), M.A.T.S. candidates must pass the Praxis Core and Praxis II-Specialty Area Test (in the licensure area); and have completed 21 hours of coursework in the content area of licensure. M.A.T.S. students must also pass a certified background check prior to beginning field experiences.

Students in the M.A.T.S. will complete the comprehensive examination in the final semester of enrollment by registering for and passing the appropriate Praxis II Principles of Learning and Teaching examination through ETS.

Master of Arts in Teaching - Special Education

EDX 6173	Introduction to Contingency Management	3
EDX 8173	Special Education in the Regular Classroom	3
EDX 6193	Advanced Planning in Special Education	3
EDX 6813	Introduction to Assessment Issues in Special Education	3
EDX 8013	Fundamentals of Teaching Individuals with Intellectual and Developmental Disorders	3
EDX 8023	Fundamentals of Teaching Individuals with Learning Disabilities	3
EDX 8053	Fundamentals of Teaching Individuals with Emotional and Behavioral Disorders	3
EDX 8233	Special Education Internship I	3
EDX 8243	Special Education Internship II.	3
EDE 8163	Teaching Middle Level Mathematics Content	3
or EDS 6633	Mathematics Education Pedagogy	
RDG 8113	Middle Level Literacy Instruction	3
or RDG 8123	Supporting the Middle Level Literacy Learner	
or RDG 8133	Middle Level Content Area Literacy Instruction	
or RDG 8653	Teaching Reading in the Secondary Schools	
Total Hours		**33**

The Master of Arts in Special Education (M.A.T.X.) is an alternate route licensure program of study that consists of 33 semester hours of graduate-level coursework and is designed for a person seeking a career as a special education teacher. In addition to the criteria for admission to a Master of Science degree program in CISE (with the exception of a teaching license), M.A.T.X. candidates must pass the Praxis CORE and Praxis II Specialty Area Test required for special education licensure by the Mississippi Department of Education, possess either 21 hours in a single content area, or pass the desired Praxis II Specialty Area test for a specific content area, and pass a certified background check.

Educational Specialist with Major in Education and Concentration in Elementary or Secondary Education

EPY 6214	Educational and Psychological Statistics	4
EDE /EDS 7000	Directed Individual Study in Elementary Education	3
Other graduate-level coursework		23
Total Hours		**30**

The written comprehensive examinations for the Educational Specialist degree are scheduled three times a year. The dates are the fourth Thursday of June, October, and February. Students can take the comprehensive examination when they are within 6 hours of completing their degree or are in their terminal semester, have an overall graduate GPA of 3.00, and have completed the courses that will be covered on the comprehensive examination.

Educational Specialist with Major in Education and Concentration in Special Education

EPY 6214	Educational and Psychological Statistics	4
EDX 7000	Directed Individual Study in Special Education	3
EDX 8133	Readings and Research in Exceptional Education	3
EDX 8123	Organization and Supervision of Special Education	3
Other Graduate-level Coursework		18
Total Hours		**31**

The written comprehensive examinations for the Educational Specialist degrees are scheduled three times a year. The dates are the fourth Thursday of June, October, and February. Students can take the comprehensive examination when they are within 6 hours of completing their degree or are in their terminal semester, have an overall graduate GPA of 3.00, and have completed the courses that will be covered on the comprehensive examination.

Doctor of Philosophy in Curriculum and Instruction

Core Courses		
EPY 6214	Educational and Psychological Statistics	4
EPY 8214	Advanced Educational and Psychological Statistics	4
EPY 9213	Advanced Analysis in Educational Research	3
EDF 8363	Function and Methods of Research in Education (may be taken in master's work)	3
EDF 9373	Educational Research Design	3
EDF 9453	Introduction to Qualitative Research in Education	3
Select one or two of the following:		3-6
EDF 9463	Qualitative Data Collection in Education	
EDF 9473	Qualitative Data Analysis and Presentation in Education	
EDF 9443	Single-Subject Research Designs for Education	
Foundations Courses		

Select one of the following:		3
EDF 8323	Comparative Education	
EDF 8383	Issues in Education	
EDF 8393	History of Education in the United States	
EDF 9313	Philosophy of Education	
EPY 8223	Psychological Foundations of Education	
Ethics Course		
PHI 8101	Case Studies in Scientific Research Ethics	1
Major Area Courses		
Directed Individual Study: EDE 7000 or EDS 7000 or EDX 7000		6
EDE /EDS / EDX 9553	Teaching and Teacher Education	3
EDE /EDS / EDX 9413	Practicum in College Teaching	3
EDE 8893/ EDS 8643	Directed Readings in Teacher Education	3
or EDX 8133	Readings and Research in Exceptional Education	
EDE /EDS / EDX 9221	Professional Practice in Teacher Education	1
Additional major area coursework (may include master's and educational specialist coursework) [1]		24
Dissertation credit hours		20
Total Hours		**90**

The program requires a minimum of 90 semester hours of coursework beyond the bachelor's degree.

1 Additional 24 hours of major-area and supporting coursework including 12 hours in the concentration and up to 12 hours in a minor area. Concentrations include Elementary Education, Secondary Education, Special Education, Reading Education, Early Childhood Education, or General Education. At least two-thirds of the total hours of coursework on the plan of study, exclusive of dissertation hours, must be courses at the 8000 level or above.

Other Requirements

Demonstration of competence in the application of research and statistics through the research skill requirement; written and oral comprehensive examinations; and a dissertation.

See the CISE Graduate Handbook for information about the doctoral comprehensive examination.

Completion Requirements for All Programs

All graduate students must attend the CISE graduate orientation or complete the online orientation quiz. All graduate students submitting a thesis or dissertation must attend the thesis/dissertation workshops conducted by the Library within the year in which they are completing the dissertation and before receiving the graduate coordinator's signature. All students seeking the Doctor of Philosophy degree must satisfy the research skills requirement before taking the written comprehensive examination.

For further information concerning the degree programs offered by CISE, students should refer to the Department of Curriculum, Instruction, and Special Education Graduate Handbook (www.cise.msstate.edu).

Instructional Systems and Workforce Development

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Graduate Coordinator: Dr. Chien Yu
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Mississippi State, MS 39762
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E-mail: CForde@colled.msstate.edu (cforde@colled.msstate.edu)

Master of Science in Instructional Technology (MSIT) Program Coordinator: Dr. Chien Yu
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Master of Science in Technology (MST) Program Coordinator: Dr. Linda F. Cornelious
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Educational Specialist (Ed.S.) Program Coordinator: Dr. Mabel Okojie
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Doctor of Philosophy (Ph.D.) in Instructional Systems and Workforce Development Program Coordinator: Dr. James Adams
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Veterans' Certificate Program Coordinator: Dr. Linda F. Cornelious
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The Department of Instructional Systems and Workforce Development (ISWD) offers graduate coursework leading to master's degrees in Technology (MST) and Instructional Technology (MSIT). The master's programs are offered with a thesis option, requiring a minimum of 30 semester credit hours for the MST program and 33 semester credit hours for the MSIT program; the non-thesis option is also offered. The educational specialist degree may be earned with a major in Education and a concentration in Technology. A doctor of philosophy degree program in Instructional Systems and Workforce Development is also available. In addition, the department offers a Veterans' Certificate Program. For more information, contact the Department of Instructional Systems and Workforce Development.

Admission Criteria

Prerequisites for admission into the graduate program include all the general requirements of the Office of the Graduate School. In addition, scores from all sections of the GRE must be submitted. International students must obtain a minimum TOEFL score of 550 PBT (213 CBT or 79 iBT) or a minimum IELTS score of 6.5.

A student applying for admission into the Department of Instructional Systems and Workforce Development must submit the **complete** application packet to the Office of the Graduate School no later than:

Applying For	Domestic Deadline	International Deadline
Summer first 5-week	April 1	March 1
Summer second 5-week	April 1	March 1
Summer 10-week	April 1	March 1
Fall	July 1	May 1
Spring	November 1	September 1

No applications are accepted after these deadlines for the respective admission semester.

A complete admission packet consists of an application to the graduate degree program, three letters of recommendation (preferably from teachers who can attest to scholarly ability), 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

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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.**

Contingent Admission

There are no contingent admissions. The admission packet must be complete and all admission requirements met before admission will be considered.

Academic Performance

Unsatisfactory performance is defined as any of the following:

- failure to maintain a B average in graduate courses attempted after admission to the program (i.e., program and non-program courses);
- a grade of U, D, or F in any one 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 program of study.

Any one of these or a combination will constitute the basis for review for possible dismissal. If unsatisfactory performance is determined, the graduate coordinator, the major professor, and the dean will review the student's record and determine a course of action: immediate dismissal or the establishment of a probationary period in which corrective action must take place. [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.]

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. If the student is not satisfied with the decision of the Dean, he/she may choose to submit a final appeal of the dismissal to the Provost. See the Academic Dismissal Appeal Procedure in this catalog at https://next.catalog.msstate.edu/graduate/academic-policies/academic-probation-dismissal-appeal/.

Master of Science in Technology (M.S.T.) - Thesis

Required Courses		
EDF 8353	Principles of Curriculum Development	3
EDF 8363	Function and Methods of Research in Education	3
TKT 8000	Thesis Research/ Thesis in Technology Teacher Education	6
Additional graduate-level courses		12
Additional Requirements for Teacher Education Majors		
TKT 8263	Philosophy and Administration of Career and Technology Education	3
TKT 8213	Content and Methods of Teaching in Career and Technology Education	3
Total Hours		**30**

At least 15 hours must be 8000-level courses or above, and a minimum of 15 credit hours must be department courses. A written comprehensive examination and an oral comprehensive examination in defense of the thesis are required.

Master of Science in Technology (M.S.T.) - Non-Thesis

Required Courses		
EDF 8353	Principles of Curriculum Development	3
EDF 8363	Function and Methods of Research in Education	3
Additional graduate-level courses		18
Additional Requirements for Teacher Education Majors		
TKT 8263	Philosophy and Administration of Career and Technology Education	3
TKT 8213	Content and Methods of Teaching in Career and Technology Education	3
Total Hours		**30**

At least 15 hours must be 8000-level courses or above, and a minimum of 15 credit hours must be department courses. A written comprehensive examination is required.

Master of Science in Instructional Technology (M.S.I.T.) - Thesis

Required Courses		15
TKT 8693	Multiple Perspectives on Instructional Systems and Technology	
TKT 8703	Trends and Issues in Instructional Systems	
TKT 8713	Research in Instructional Systems & Workforce Development	
TKT 8793	Directed Project and Portfolio Development	
TKT 8843	Foundations of Instructional Systems and Technology	
Concentration (choose one concentration)		12
Instructional Design Concentration:		
TKT 8523	Theories of Multimedia Learning	
TKT 8533	Evaluation and Assessment in Instructional Systems & Technology	
TKT 8623	Instructional Design I	
TKT 8723	Instructional Design for Industry	
Distance Education Concentration:		
TKT 8533	Evaluation and Assessment in Instructional Systems & Technology	
TKT 8813	Foundations of Distance Education.	
TKT 8823	Design, Delivery, & Management of Distanced Education	
TKT 8853	Learning Technologies in Distance Education	
Multimedia Concentration:		
TKT 8443	Theory of Multimedia Learning	
TKT 8543	Multimedia Design I	
TKT 8643	Multimedia Design II	
TKT 8743	Interactive Media	
Thesis Option		
TKT 8000	Thesis Research/ Thesis in Technology Teacher Education	6
Total Hours		**33**

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 and an oral comprehensive examination in defense of the thesis are required.

Master of Science in Instructional Technology (M.S.I.T.) - Non-Thesis

Required Courses		15
TKT 8693	Multiple Perspectives on Instructional Systems and Technology	
TKT 8703	Trends and Issues in Instructional Systems	
TKT 8713	Research in Instructional Systems & Workforce Development	
TKT 8793	Directed Project and Portfolio Development	
Concentration (choose one concentration)		12
Instructional Design Concentration:		
TKT 8523	Theories of Multimedia Learning	
TKT 8533	Evaluation and Assessment in Instructional Systems & Technology	
TKT 8623	Instructional Design I	
TKT 8723	Instructional Design for Industry	
Distance Education Concentration:		
TKT 8533	Evaluation and Assessment in Instructional Systems & Technology	
TKT 8813	Foundations of Distance Education.	
TKT 8823	Design, Delivery, & Management of Distanced Education	
TKT 8853	Learning Technologies in Distance Education	
Multimedia Concentration:		
TKT 8443	Theory of Multimedia Learning	
TKT 8543	Multimedia Design I	
TKT 8643	Multimedia Design II	
TKT 8743	Interactive Media	
Non-Thesis Option Electives		6
Total Hours		**33**

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.

Educational Specialist in Education (Ed.S.) with Concentration in Technology - Thesis

EPY 6214	Educational and Psychological Statistics	4
TKT 8000	Thesis Research/ Thesis in Technology Teacher Education	6
Additional courses selected with approval of the student's graduate committee and the graduate coordinator		21-24
Total Hours		**31**

One-half or more of the hours must be 8000 level courses or above. A final written comprehensive examination and thesis defense are required.

Educational Specialist in Education (Ed.S.) with Concentration in Technology - Non-Thesis

EPY 6214	Educational and Psychological Statistics	4
TKT 7000	Directed Individual Study in Technology Teacher Education	3
Additional courses selected with approval of the student's graduate committee and the graduate coordinator		21-24
Total Hours		**31**

One-half or more of the hours must be 8000 level courses or above. A final written comprehensive examination is required.

Doctor of Philosophy (Ph.D.) in Instructional Systems and Workforce Development

Research and Statistics Requirement		
EPY 8214	Advanced Educational and Psychological Statistics	4
TKT 8243	Research Problems in Instructional Systems and Workforce	3
TKT 8713	Research in Instructional Systems & Workforce Development	3
Select three of the following:		9
EPY 9213	Advanced Analysis in Educational Research	
EDF 9373	Educational Research Design	
EPY 9263	Applied Research Seminar	
EDF 9443	Single-Subject Research Designs for Education	
EDF 9453	Introduction to Qualitative Research in Education	
EDF 9463	Qualitative Data Collection in Education	
EDF 9473	Qualitative Data Analysis and Presentation in Education	
Foundations Courses		
Select two of the following:		6
TKT 9213	Foundations, Tends and Issues in Workforce Development, Technology and Leadership Education	
TKT 8273	Contemporary Issues in Curriculum Planning in ISWD	
TKT 6263	Diversity in Work and Educational Environments	
Postsecondary Courses		
Select one of the following:		3
TKT 8263	Philosophy and Administration of Career and Technology Education	
TKT 8213	Content and Methods of Teaching in Career and Technology Education	
TKT 8233	Analysis of Workforce Education Programs and Survey Research in Workforce Development	
Approved technology electives (see advisor) [1]		24-30
Approved general electives (see advisor for list of approved general electives)		12-18
TKT 9000	Dissertation Research /Dissertation in Technology Teacher Education (hours and credits to be arranged)	20
Total Hours		**90**

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

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

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

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

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.

Veterans' Certificate Program

The Veterans' Certificate Program is offered at the undergraduate and graduate levels. The certificate is designed for anyone at any level who would like to serve veterans. Employees of colleges and universities, corporations, government at all levels, and other professionals who are interested in serving veterans should obtain this certificate. As part of the University's ongoing commitment to veterans, the certificate provides the knowledge, skills, and competencies that individuals will need to support veterans as they transition to civilian life.

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

For more information, contact the Department of Instructional Systems and Workforce Development, Box 9730, Mississippi State, MS 39762 or by email at iswd@colled.msstate.edu. Information is also available at iswd.msstate.edu.

Prerequisite		
TKB 3133	Administrative Management and Procedures	3
Required Courses		

TKT 4403/6403	Strategies for Campus Transition and Success for Veterans	3
TKT 4413/6413	Veterans' Benefits and Certification-Policies and Procedures	3
TKT 4423/6423	History of Administration of Veterans' Benefits	3
TKT 4433/6433	The Development of Veterans' Benefits, Laws and Policies	3
Total Hours		**15**

Kinesiology

Department Head: Dr. Stanley P. Brown
Graduate Coordinator: Dr. Adam Love
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Box 6186
Mississippi State, MS 39762
Telephone: 662-325-2963
Website: kinesiology.msstate.edu

Graduate study is offered in the Department of Kinesiology leading to the Master of Science degree (concentrations in Exercise Physiology, Sport Pedagogy, and Sport Administration) and Doctor of Philosophy degree (concentrations in Exercise Science and Sport Studies). Graduate assistant positions are available. To secure additional information, contact the departmental Graduate Coordinator.

Master of Science in Kinesiology

The Master of Science program offers three concentrations: Exercise Physiology, Sport Administration, and Sport Pedagogy. The concentration in Exercise Physiology prepares students for careers in fitness and allied health care professions. The concentration in Sport Administration prepares students for careers in the sport industry, including positions with professional, collegiate, and recreational sport organizations. The concentration in Sport Pedagogy prepares students for leadership roles as coaches and physical educators. These concentrations also prepare students for advanced study at the doctoral level.

Admission Criteria

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

1. A completed MSU Graduate School application form.
2. Official transcripts from all institutions attended since high school.
3. Graduate Record Examination (GRE) General Test scores.
4. Three professional letters of recommendation. Ideally, the individuals writing the letters should be in a position to specifically comment about the applicant's academic ability (e.g., former professors or advisors).
5. A written statement of purpose, which should reflect a strong sense of career direction and highlight the applicant's qualifications, skills, and professional experience.
6. A résumé or curriculum vitae.

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

An international student applying for admission must score a minimum of 550 PBT (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.

Doctor of Philosophy in Kinesiology

The Doctor of Philosophy programs offers two concentrations: Exercise Science and Sport Studies. The degree is a research-focused program designed to prepare professionals with the cognitive and research skills needed to be productive scholars. The focus of the Exercise Science concentration is the scientific study of how biological systems function during physical activity, exercise and sports, emphasizing applications to both clinical and health populations. The Sport Studies concentrations involves studying sport from an interdisciplinary perspective, encompassing the fields of sport management, sport pedagogy, sport philosophy, and sport sociology, among others.

Admission Criteria

Prior to formally applying to the doctoral program, students should familiarize themselves with the research interests of graduate faculty members in the Department of Kinesiology and identify a faculty member whose research agenda aligns with their interests. A prospective applicant should then contact that faculty member to discuss his/her "fit" with the faculty member's research interests. If possible, prospective applicants are encouraged to visit the MSU campus. When an informal understanding is reached regarding the student's suitability to enter the doctoral program under the guidance of the faculty member, the student may then formally apply to the Graduate School. This does not guarantee a student admission to the doctoral program, but it is a necessary step prior to the formal application.

The following items are required to formally apply to the doctoral degree programs in the Department of Kinesiology:

1. A completed MSU Graduate School application form.
2. Official transcripts from all institutions attended since high school; students must have completed a master's degree prior to being admitted to the doctoral program.
3. Graduate Record Examination (GRE) General Test scores.
4. Three professional letters of recommendation; at least two letters should be from university professors from whom the student has taken courses or worked with in a research capacity.
5. A written statement of purpose, which should clearly explain the applicant's research interests and highlight how these interests align with faculty members in the department, particularly the faculty member who the applicant wishes to serve as his/her advisor.
6. An academic writing sample (e.g., a published research article, thesis, or other academic paper).
7. A curriculum vitae.

An international student applying for admission must score a minimum of 550 PBT (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.

Application deadlines in the Department of Kinesiology are as follows:

Fall/Summer admission	March 1
Late Application Deadline for Fall admission	June 1
Spring admission	October 15

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

Academic Performance

Students in the Department of Kinesiology 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 Catalog*. Students are encouraged to familiarize themselves with academic performance requirements.

Master's Degree Completion Requirements

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 andn other committee members, a program of study during the first semester in the program.

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 or 3 (Non-Thesis) must successfully complete written comprehensive examinations prior to graduation. The student must be within 6 hours of graduation (coursework completion) or in the last semester of study and in good standing to be eligible to apply for comprehensive examinations. **Graduate Committee?**

Master of Science in Kinesiology with Exercise Physiology Concentration

Research Core		6
KI 8303	Research in Kinesiology	
KI 8313	Interpretation of Data in Kinesiology	
Exercise Physiology Core		9
EP 8203	Advanced Exercise Physiology	
EP 8243	Cardiorespiratory Exercise Physiology	
EP 8263	Exercise Metabolism	
Electives		
Select four of the following:		12
EP 8253	Doping and Supplement Use in Sports	
EP 8283	Environmental Exercise Physiology	
EP 8323	Science and Practice in Cardiopulmonary Rehabilitation	
EP 8423	Graded Exercise Testing	
EP 8443	Neuromuscular Mechanisms in Exercise	
EP 8453	Biomechanics of Human Movement	
EP 8503	Occupational Physiology	
Select one of the three following concluding options. [1]		6
Option 1: Thesis (6 hours)		
KI 8000	Thesis Research/ Thesis in Kinesiology	
Option 2: Directed Individual Study (6 hours)		
KI 7000	Directed Individual Study in Kinesiology	
Additional 3-hour course		
Option 3: Internship (6 hours)		
KI 8710	Internship	
Additional 3-hour course		
Total Hours		**33**

[1] Students who select the Thesis Option must pass a thesis defense. Students in the Directed Individual Study or Internship Option must pass a comprehensive examination.

Master of Science in Kinesiology with Sport Pedagogy Concentration

Research Core		6
KI 8303	Research in Kinesiology	
KI 8313	Interpretation of Data in Kinesiology	
Sport Pedagogy Core		12
PE 8103	Developing Coaching Expertise	
PE 8113	Curriculum Construction in Physical Education	
PE 8163	Seminar in Physical Education	
PE 8203	Psychological Aspects of Sport	
Electives		
Select three of the following:		9
EP 6153	Training Techniques for Exercise and Sport	
EP 8253	Doping and Supplement Use in Sports	
EP 8443	Neuromuscular Mechanisms in Exercise	
EP 8453	Biomechanics of Human Movement	
SS 8203	Funding of Sport	
SS 8803	Sport Law	
SS 8883	Ethical Issues in Sport	
EDS 8243	Advanced Planning and Managing of Learning	
EDS 8623	Principles of Effective Instruction in Secondary Schools	
EDX 8173	Special Education in the Regular Classroom	
Concluding Options		
Select one of the three following concluding options [2]		6
Option 1: Thesis (6 hours)		
KI 8000	Thesis Research/ Thesis in Kinesiology	
Option 2: Directed Individual Study (6 hours)		
KI 7000	Directed Individual Study in Kinesiology	
Additional coursework		
Option 3: Internship (6 hours)		

KI 8710	Internship	
Additional coursework		
Total Hours		**33**

[2] Students who selecte the Thesis Option must pass a thesis defense. Students in the Directed Individual Study or Internship Option must pass a comprehensive examination.

Master of Science in Kinesiology with Sport Administration Concentration

Research Core		6
KI 8303	Research in Kinesiology	
KI 8313	Interpretation of Data in Kinesiology	
Sport Administration Core		18
SS 8123	Sport Management	
SS 8203	Funding of Sport	
SS 8803	Sport Law	
SS 8823	Sport Sponsorships	
SS 8883	Ethical Issues in Sport	
Electives		3
Graduate-level course subject to approval of graduate advisor.		
Concluding Options		6
Select one of the three following concluding options. [3]		
Option 1: Thesis (6 hours)		
KI 8000	Thesis Research/ Thesis in Kinesiology	
Ooption 2: Directed Individual Study (6 hours)		
KI 7000	Directed Individual Study in Kinesiology	
Additional 3-hour course		
Option 3: Internship (6 hours)		
KI 8710	Internship	
Additional 3-hour course		
Total Hours		**33**

[3] Student who select the Thesis Option must pass a thesis defense. Students in the Directed Individual Study or Internship Option must pass a comprehensive examination.

Doctor of Philosophy in Kinesiology with Exercise Science Concentration

College of Education Required Course: University Instruction		3
HED 8133	University and Community College Instruction	
Major Required Courses		
Research Methods and Statistics (Select four courses, at least 12 hours, from the list)		12
ST 6213	Nonparametric Methods	
ST 8114	Statistical Methods	
ST 8214	Design and Analysis of Experiments	
ST 8253	Regression Analysis	
ST 8313	Introduction to Survey Sampling	
ST 8853	Advanced Design of Experiments I	
ST 8863	Advanced Design of Experiments II	
Directed Research		
KI 7000	Directed Individual Study in Kinesiology	3
KI 9000		21
Exercise Science Concentration Requirements		3
KI 8913	Doctoral Seminar in Exercise Science	
Departmental Cognate (choose 12 hours from the following with approval of supervisory committee)		12
EP 8203	Advanced Exercise Physiology	
EP 8243	Cardiorespiratory Exercise Physiology	
EP 8253	Doping and Supplement Use in Sports	
EP 8263	Exercise Metabolism	
EP 8283	Environmental Exercise Physiology	
EP 8323	Science and Practice in Cardiopulmonary Rehabilitation	
EP 8423	Graded Exercise Testing	
EP 8443	Neuromuscular Mechanisms in Exercise	
EP 8453	Biomechanics of Human Movement	
EP 8503	Occupational Physiology	
Outside Electives		9
Students choose a cognate field of study from an appropriate science-related discipline outside of the Department of Kinesiology. Choice of courses must be approved by the Supervisory Committee. Students may elect to take 3 additional credit hours to fulfill the requirements for a 12-hour minor in a specific area.		
Total Hours		**63**

Doctor of Philosophy in Kinesiology with Sport Studies Concentration

College of Education Required Course: University Instruction		3
HED 8133	University and Community College Instruction	
Major Required Courses		
Research Methods and Statistics (Select four courses, at least 12 hours, from the list)		12
ST 6213	Nonparametric Methods	
ST 8114	Statistical Methods	
ST 8214	Design and Analysis of Experiments	
ST 8253	Regression Analysis	
ST 8313	Introduction to Survey Sampling	
ST 8853	Advanced Design of Experiments I	
ST 8863	Advanced Design of Experiments II	
Students in the Sport Studies Concentration may take the following two courses and two others from the above list for their 12 hours of research and statistics:		
AN 6143	Ethnographic Methods	
EDF 9453	Introduction to Qualitative Research in Education	
Directed Research		
KI 7000	Directed Individual Study in Kinesiology	3
KI 9000		21
Sport Studies Concentration Requirements		3
KI 8923	Doctoral Seminar in Sports Studies	
Departmental Cognate (12 credit hours from the following list with approval of supervisory committee)		12
PE 8103	Developing Coaching Expertise	

PE 8113	Curriculum Construction in Physical Education	
PE 8163	Seminar in Physical Education	
PE 8203	Psychological Aspects of Sport	
SS 6403	Gender and Sport	
SS 8123	Sport Management	
SS 8203	Funding of Sport	
SS 8803	Sport Law	
SS 8823	Sport Sponsorships	
SS 8833	Event and Facility Management	
SS 8883	Ethical Issues in Sport	
Outside Electives		9
Students choose a cognate field of study from an appropriate discipline outside the Department of Kinesiology. Choice of courses must be approved by the supervisory committee. Students may elect to take 3 additional credit hours to fulfill the requirement for a minor in a specific area.		
Total Hours		**63**

Educational Leadership

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The Department of Educational Leadership 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
- Doctor of Philosophy in Elementary, Middle, and Secondary Education Administration

A student applying for admission to a degree program in the Department of Educational Leadership 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. The M.S. application deadline is May 1; the Ed.S. deadline is March 1.

All other programs will admit students twice a year. No applications are accepted after these deadlines for the respective admission semesters.

Spring	October 1
Summer	March 1
Fall	March 1

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

Master of Arts in Teaching in Community College Education (M.A.T.)

The Master of Arts in Teaching in Community College Education is an interdisciplinary, distance learning degree program designed to prepare professionals for teaching in a community college setting. The degree prepares educators for service in rural community colleges and requires a minimum of 18 hours in the student's teaching field. The professional education sequence of 15 hours includes an internship experience. The education courses introduce students to the philosophy and culture of the community college and prepare them to teach non-traditional and first-generation students. Sensitivity to diversity and adult learning theory is also included in the curriculum. The program is offered through the Center for Distance Education.

Admission Criteria

To be eligible for admission to the program, the applicant must hold a bachelor's degree from an accredited institution, meet the basic requirements specified for graduate students at Mississippi State University, demonstrate interest in the mission of community colleges, and demonstrate academic proficiency based on the following indicators:

1. grade point average (GPA) of 2.75 on a 4.00 scale on the last half of the bachelor's degree,
2. GRE score results,
3. three letters of reference, and
4. indication of teaching specialty (e.g., history) in the purpose statement.

Master of Science 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:

1. grade point average (GPA) of 2.75 on a 4.00 scale on the last half of the bachelor's degree,
2. GRE score results,
3. three letters of reference, and
4. purpose statement.

Doctor of Philosophy 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:

1. grade point average (GPA) of 3.40 on a 4.00 scale for all graduate-level credit hours completed**;**
2. GRE score results;
3. writing sample;
4. three letters of reference,
5. structured interview; and
6. current résumé.

School Leadership Programs

Master of Science 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:

1. grade point average (GPA) of 2.75 on a 4.00 scale on the last half of the bachelor's degree;
2. GRE score results;
3. three letters of reference;
4. statement of purpose;
5. copy of valid teacher's license;
6. evidence of three years of teaching experience,
7. current résumé;
8. letter of endorsement from current school administrator;
9. portfolio; and
10. interview.

Educational Specialist in Education with a School Administration Concentration

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:

1. grade point average (GPA) of 3.20 on a 4.00 scale on the master's degree;
2. GRE score results;
3. three letters of reference;
4. statement of purpose;
5. copy of valid teacher's license;
6. evidence of three years of teaching experience;
7. résumé;
8. letter of recommendation from a school administrator;
9. portfolio; and
10. interview.

Doctor of Philosophy 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:

1. grade point average (GPA) of 3.40 on a 4.00 scale on previous graduate degree(s);
2. GRE score results;
3. three letters of reference;
4. statement of purpose;
5. evidence of three years of teaching experience,
6. résumé; and
7. interview.

Master of Arts in Teaching in Community College Education

Core Courses		
CCL 8113	Community College History/Philosophy	3
CCL 8313	Community College Instructional Assessment	3
CCL 8173	Community College Teaching and Learning	3
EDF 8363	Function and Methods of Research in Education	3
Teaching Specialty/Content Area		
Select 18 hours of courses with the same prefix.		18
Total Hours		**30**

Master of Science in Workforce Education Leadership

Core Courses		24
CCL 8113	Community College History/Philosophy	
CCL 8343	Community Development and Resources	
CCL 8133	Leadership Theory and Practice in the Community College	
CCL 8153	Human Resources Administration	
CCL 8143	Program Planning and Development	
AIS 8523	Teaching Out-of-School Groups in Agricultural Information Science and Education	
EDF 8363	Function and Methods of Research in Education	
CCL 8193	Issues in Community College and Workforce Leadership	
Any two TKT courses at the 6000 level or above.		6
Total Hours		**30**

Doctor of Philosophy in Community College Leadership

Core Courses		24
Select one of the following:		
CCL 8113	Community College History/Philosophy	
or CCL 8373	Community College Curriculum Improvement	
CCL 8123	Community College Finance	
CCL 8233	Community College Legal Issues	
CCL 8333	Community College Administration	
CCL 8283	Leadership in Community College Administration	
CCL 8353	Applications of Organizational Theory and Behavior in Community College Leadership	
CCL 8383	Ethical Decision Making in Community College Administration	
EDA 8323	Educational Facilities Design	
Interdisciplinary Courses		18
PPA 9613	Rural Government Administration I: Theoretical and Environmental Aspects	
PPA 9623	Rural Government Administration II: Implementation Aspects	
AEC 6313		
AEC 6353	Introduction to Regional Economic Development	
AEC 6323	Applied Region Econ Dev	
AEC 6333		
AEC 8713	Rural Community and Economic Development	
PPA 8733	Public Program Evaluation	
Research Courses		14
EPY 6214	Educational and Psychological Statistics	
EPY 8214	Advanced Educational and Psychological Statistics	
EDF 9373	Educational Research Design	
EDF 9453	Introduction to Qualitative Research in Education	

Dissertation		20
EDA 9000	Dissertation Research /Dissertation in Educational Leadership (hours and credits to be arranged; minimum of 20 hours required)	
Additional Requirements		
CCL 8213	Internship in Community College Leadership [1]	3
Total Hours		**79**

[1] Required of students lacking community college work experience.

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:

1. submit a research paper to a peer reviewed journal, or
2. present a research paper at an annual meeting of a regional or national association conference/meeting.

Master of Science in School Administration

Required Courses		
First Summer		
EDL 8413	School Legal and Ethical Perspectives	3
EDL 8423	School Leadership	3
EDL 8433	Using Data for School Improvement	3
EDF 8443	Evaluation of School Programs	3
Fall		
EDL 8513	School Leadership Internship I	3
EDL 8523	Educating Diverse Learners	3
Spring		
EDL 8613	School Leadership Internship II	3
EDL 8623	Leading Curriculum, Instruction and Assessment	3
EDL 8633	Human Resources Leadership for Schools	3
Second Summer		
EDL 8713	School Business and Facilities	3
EDL 8723	Leadership for Positive School Culture	3
A culminating assessment is also held during the second summer term		
Total Hours		**33**

Education Specialist, School Administration Concentration

Individuals Holding a Master's degree in School Administration and Administrator License

EPY 6214	Educational and Psychological Statistics	4
EDL 7000	Directed Individual Study in Educational Leadership	6
Graduate-level coursework with at least 15 hours at the 8000-level		20
Total Hours		**30**

A comprehensive examination is required.

Education Specialist, School Administration Concentration

Individuals without Administrator License

EPY 6214	Educational and Psychological Statistics	4
EDL 7000	Directed Individual Study in Educational Leadership	6
Graduate-level coursework with at least 15 hours at the 8000-level		30
Total Hours		**40**

A comprehensive examination is required.

Doctor of Philosophy in Elementary, Middle, and Secondary Education Administration

Leading and Managing in Educational Environments		
EDA 8163	Public School Finance [1]	3
EDA 8190	Workshop in Educational Administration and Supervision	1-3
EDA 8223	Seminar in Administration [1]	3
EDA 8273	Educational Administration and Supervision [1]	3
EDA 8283	Educational Leadership [1]	3
EDA 8293	Professional Development of Educational Personnel	3
EDA 8353	Applications of Theory to Educational Administration [1]	3
EDA 8383	Ethical Decision Making in Educational Administration [1]	3
Applied Research		
Select a minimum of five of the following:		17
EPY 6214	Educational and Psychological Statistics	
EPY 8214	Advanced Educational and Psychological Statistics	
EPY 9213	Advanced Analysis in Educational Research	
EPY 9263	Applied Research Seminar	
EDF 9373	Educational Research Design	
EDF 9463	Qualitative Data Collection in Education	
EDF 9473	Qualitative Data Analysis and Presentation in Education	
Educational Foundations		
Select four of the following:		12
EPY 8223	Psychological Foundations of Education	
EDF 9313	Philosophy of Education	
EDF 8323	Comparative Education	
EDF 8353	Principles of Curriculum Development	
EDF 8383	Issues in Education	
EDF 8393	History of Education in the United States	
Dissertation Research		
EDA 9000	Dissertation Research /Dissertation in Educational Leadership (hours and credits to be arranged; minimum of 20 hours required) [2]	20
Additional courses		

EDA 8210	Internship in Supervision and Administration [3]	3
EDA 8323	Educational Facilities Design	3
Total Hours		**77-79**

1 These courses must be completed at MSU. Many of these courses require prerequisites. The specific number of courses in Educational Administration required for a particular student may vary depending on previous degrees and experience.

2 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.

3 Required for students lacking school district-level work experience.

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

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Degree and Certificate Programs

Department	Degree and Major	Concentration	Thesis	Non-Thesis	Starkville	Meridian	Distance
Aerospace Engineering	Master of Science - Aerospacce Engineering		X	X	X		X
Aerospace Engineering	Doctor of Philosophy - Engineering	Aerospace Engineering			X		X
Agricultural & Biological Engineering	Master of Science - Biological Engineering		X		X		
Agricultural & Biological Engineering	Master of Science - Biomedical Engineering		X		X		
Agricultural & Biological Engineering	Doctor of Philosophy - Engineering	Biological Engineering			X		
Agricultural & Biological Engineering	Doctor of Philosophy - Biomedical Engineering				X		
Dave C. Swalm School of Chemical Engineering	Master of Science - Chemical Engineering		X	X	X		

Dave C. Swalm School of Chemical Engineering	Doctor of Philosophy - Engineering	Chemical Engineering				X		
Civil & Environmental Engineering	Master of Science - Civil Engineering		X		X	X		X
Civil & Environmental Engineering	Doctor of Philosophy - Engineering	Civil Engineering				X		X
Computer Science & Engineering	Master of Science - Computer Science		X		X	X		X
Computer Science & Engineering	Doctor of Philosophy - Computer Science					X		
Electrical & Computer Engineering	Master of Science - Electrical and Computer Engineering		X		X	X		X
Electrical & Computer Engineering	Doctor of Philosophy - Electrical and Computer Engineering					X		X
Industrial & Systems Engineering	Master of Science - Industrial Engineering	Human Factors & Ergonomics	X		X	X		X
Industrial & Systems Engineering	Master of Science - Industrial Engineering	Industrial Systems	X		X	X		X
Industrial & Systems Engineering	Master of Science - Industrial Engineering	Management Systems	X		X	X		X
Industrial & Systems Engineering	Master of Science - Industrial Engineering	Manufacturing Systems	X		X	X		X
Industrial & Systems Engineering	Master of Science - Industrial Engineering	Operations Research	X		X	X		X
Industrial & Systems Engineering	Doctor of Philosophy - Industrial and Systems Engineering					X		X
Mechanical Engineering	Master of Science - Mechanical Engineering		X		X	X		X
Mechanical Engineering	Doctor of Philosophy - Engineering	Mechanical Engineering				X		X
Interdisciplinary Curricula	Master of Engineering - Engineering				X			X
Interdisciplinary Curricula	Master of Science - Computational Engineering		X		X	X		

Interdisciplinary Curricula	Doctor of Philosophy - Computational Engineering		X
Interdisciplinary Curricula	Doctor of Philosophy - Engineering	Applied Physics	X

Certificate Programs

- Automotive Engineering
- Computational Biology
- Information Assurance Professional Certificate
- Manufacturing
- Materials 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 (80th) engineering graduate programs and is listed in the *U.S. News & World Report-America's Best Graduate Schools*. BCoE Online programs are ranked 20th nationally by USNWR. In fall 2014, graduate enrollment totaled 588 (255 M.S.; 333 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 11 master's degrees and 11 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 51st among colleges of engineering in NSF-national rankings by research and development expenditures in FY 11-12 (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 seeks to enrich graduate education by providing a multiplicity of views and perspectives that enhance research, teaching, and the development of new knowledge. Additional information about the Bagley College of Engineering is available at http://www.bagley.msstate.edu.

Aerospace Engineering

Department Head: Dr. Thomas E. Lacy, Interim
Graduate Coordinator: Dr. J. Mark Janus
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

The Department of Aerospace Engineering offers graduate study leading to the degrees of Master of Science in Aerospace Engineering and Doctor of Philosophy with an Aerospace Engineering concentration. Distance-learning options for these degrees are also available (see http://www.bcoelearning.msstate.edu). Major areas of study are include the following.

- fluid mechanics
- aerodynamics
- computational fluid dynamics
- structures and composites
- structural dynamics
- design optimization
- structural reliability
- fatigue and fracture
- dynamics and controls
- satellite engineering
- orbital mechanics

The Raspet Flight Research Laboratory, operated by the Bagley College of Engineering, is a unique University facility for graduate aeronautical research and education and has been an integral part of the Aerospace Engineering Department activities for decades. The department is a major participant in the Center for Advanced Vehicular Systems (CAVS) where members of this faculty provide primary leadership in computational simulations. Other department facilities include a low speed wind tunnel, a blow-down supersonic wind tunnel, and a fatigue and fracture testing laboratory. Graduate research and teaching assistantships are available.

Admission Criteria

In addition to meeting the requirements discussed in the General Requirements for Admission section of this publication, the minimum requirement for regular admission to the graduate program is a B.S. degree in Aerospace Engineering or a closely related field, with a 3.00/4.00 GPA for the junior and senior years. An applicant with a B.S. degree from a program that is not accredited by EAC/ABET (Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology) must submit GRE general-test scores. Applicants required to take the TOEFL examination (see Admission section for more details) must have a minimum score of 550 PBT (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 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 Provisional Admission requirements (http://catalog.msstate.edu/graduate/academic-policies/academic-requirements/#provisionaladmissiontext) 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:

1. The student maintains a B average or better on
   a. all undergraduate prerequisite courses;
   b. all graduate courses completed;
   c. all graduate courses included on the program of study.
2. The student has no more than one grade less than C.
3. If the student registers for research credits in a given term, he/she receives a Satisfactory (S) grade at the end of the term.
4. 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.

Further Information

For information about the program or financial support, contact the Aerospace Engineering Graduate Coordinator (http://catalog.msstate.edu/graduate/colleges-degree-programs/engineering/aerospace/#graduate-coordinator).

Master of Science in Aerospace Engineering - Thesis

ASE 8XXX	Coursework	12
ASE XXXX	Additional graduate-level coursework	12
Thesis research/dissertation		6
Total Hours		**30**

A master's degree student must pass a final oral examination upon completion of all course requirements.

Master of Science in Aerospace Engineering - Non-Thesis

ASE 8XXX	Coursework	15
ASE XXXX	Additional graduate-level coursework	18
Total Hours		**33**

A master's degree student must pass a final oral examination upon completion of all course requirements.

Doctor of Philosophy with Aerospace Engineering Concentration

ASE 8XXX	Coursework	15
ASE XXXX	Additional graduate-level coursework	15
Dissertation research/dissertation		20
Total Hours		**50**

The number of course hours required of a Ph.D. student depends on each student's needs. 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.

Agricultural and Biological Engineering

Department Head: Dr. Jonathan Pote
Graduate Coordinator: Dr. Rajkumar Prabhu
150 Agricultural Engineering Building
Box 9632
Mississippi State, MS 39762
Telephone: 662-325-3282
E-mail: abe_head@abe.msstate.edu (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 include the following.

- agricultural machinery systems
- precision agriculture
- animal waste management
- sustainable design
- pesticide applications and protection
- bioenvironmental systems
- seed processing and storage

- aquacultural systems
- agricultural modeling
- 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 (79 iBT) or IELTS score of 6.5 or higher.

Provisional Admission

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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.**

Contingent Admission

If a student applying to the M.S. program does not have an undergraduate degree in engineering, the student will be required to complete or have previous credit in 51 hours of engineering, mathematics, and physical science courses. The student will be granted contingent admission until the course requirement has been satisfied. Similarly, a student applying to the Ph.D. program must have a B.S. or M.S. degree in engineering. The same set of courses will be required before the student is fully admitted into the Ph.D. program.

Academic Performance

Unsatisfactory performance in the graduate program in Agricultural and Biological Engineering is defined as any of the following:

- failure to maintain a B average in attempted graduate courses after admission to the program;
- a grade of U, D, or F in any one course;
- more than two grades below a B;
- failure of the qualifying or 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 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 (http://catalog.msstate.edu/graduate/colleges-degree-programs/agriculture-life-sciences/agricultural-biological-engineering/#programsofstudytext) section of this publication.

Master of Science in Biological Engineering

ST 8114	Statistical Methods	4
Select at least one of the following:		1
ABE 8911	Agricultural and Biological Engineering Seminar	
ABE 8921	Agriculturual and Bio Engineering Seminar	
ABE XXXX	Graduate course	3
Additional graduate-level coursework		16
ABE 8000	Thesis Research/ Thesis in Agricultural and Biological Engineering	6
Total Hours		**30**

A thesis and an oral comprehensive examination in defense of the thesis are required. The Master of Science in Biological Engineering requires 24 credit hours of coursework beyond the baccalaureate degree and 6 or more credit hours of thesis research/thesis.

Doctor of Philosophy in Engineering with concentration in Biological Engineering

MA XXXX	Graduate mathematics course	3
ABE XXXX	Graduate-level coursework	48
8000-level coursework		10
Select two of the following:		2
ABE 8911	Agricultural and Biological Engineering Seminar	
ABE 8921	Agriculturual and Bio Engineering Seminar	
Dissertation/Research		20
Total Hours		**83**

A preliminary examination, a dissertation, and an oral examination in defense of the dissertation 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 and complete 20 hours of dissertation research.

Applied Physics

Graduate Coordinator: Dr. Henk F. Arnoldus

Hilbun Hall 125
Box 5167
Mississippi State, MS 39762
Telephone: 662-325-2159
E-mail: hfa1@msstate.edu

An Interdisciplinary Program

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 include the following.

- computational physics
- theoretical and experimental optics
- diagnostics using the techniques of conventional, imaging, and laser spectroscopy
- experimental and theoretical nuclear structure physics
- astrophysics
- astrochemistry

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 (http://catalog.msstate.edu/graduate/colleges-degree-programs/arts-sciences/physics-astronomy), College of Arts and Science, located in this publication.

Doctor of Philosophy in Engineering, Applied Physics Concentration

Core Courses		
PH 8213	Mechanics	3
PH 8233	Methods of Theoretical Physics I	3
PH 8243	Methods of Theoretical Physics II	3
PH 8313	Electromagnetic Theory	3
PH 8743	Quantum Mechanics I	3
PH 8753	Quantum Mechanics II	3
Other Requirements		
Additional coursework in the area of specialization		
PH 9000	Dissertation Research /Dissertation in Physics (at least 20 hours)	20
Total Hours		**38**

Ph.D. candidates must pass written preliminary examinations on the core courses and, if required by their graduate advisory committee or the Physics department head, on their Engineering or other applied courses. The written preliminary exam on Electromagnetic Theory also covers material from PH 6333 Electromagnetic Fields II.

After passing the written preliminary exams, Ph.D. candidates must then pass an oral preliminary examination on the proposed dissertation topic. A dissertation is required of all Ph.D. candidates.

Biomedical Engineering

Department Head: Dr. Jonathan Pote
Graduate Coordinator: Dr. Steven Elder
100 Ag and Bio Engineering Building
Box 9632
Mississippi State, MS 39762
Telephone: (662) 325-3282
E-mail: selder@abe.msstate.edu
Website: http://www.abe.msstate.edu

An Interdisciplinary Curriculum

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 (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

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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.**

Contingent Admission

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.

Graduate Committees

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 qualifying or 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.

Master of Science in Biomedical Engineering

ABE 8511	Journal Reviews in Biomedical Engineering	1
ABE 8801	Clinical Experience for Biomedical Engineering	1
BIO 6514	Animal Physiology	4
or BIO 6114	Cellular Physiology	
ST 8114	Statistical Methods	4
8000-level or higher coursework		6
Additional graduate-level coursework		8
Research/thesis		6
Total Hours		**30**

An oral comprehensive examination and a thesis are also required. The M.S. degree requires 24 semester hours of coursework above the baccalaureate degree .In addition, 6 or more thesis research credit hours are required.

Doctor of Philosophy in Biomedical Engineering

ABE 8511	Journal Reviews in Biomedical Engineering	1
ABE 8801	Clinical Experience for Biomedical Engineering	1
BIO 6514	Animal Physiology	4
or BIO 6114	Cellular Physiology	
ST 8114	Statistical Methods	4
8000-level or higher coursework		6
MA XXXX	Graduate-level mathematics course [1]	3
Additional graduate-level coursework		29
Dissertation research/dissertation		20-32
Total Hours		**80**

[1] Or approved substitute, such as an additional graduate level statistics course.

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

Certificate Programs

The James Worth Bagley College of Engineering offers certificates in the following areas.

- Automotive
- Computational Biology
- Information Assurance
- Manufacturing
- Materials

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.

Information Assurance

The Information Assurance Certificate provides educational coursework in the areas of information assurance and data security. MSU is certified as a Center of Academic Excellence in Information Assurance (IA) by the National Security Agency; the IA program of instruction has been certified by the Committee on National Security Standards (CNSS) against the National Training Standard for Information Systems Security (INFOSEC) Professionals—NSTISSI No. 4011 and the National Training Standard for Information Systems Security Officers (ISSO)—NSTISSI No. 4014. The curriculum for the certificate conforms to the Federal training standards in this area. A faculty member from the Department of Computer Science and Engineering's Center for Computer Security Research (CCSR) will be appointed annually to administer the program. The certificate is jointly administered through the CCSR, the Dean of Engineering, and the College of Agriculture and Life Sciences. Additional information may be found at http://security.cse.msstate.edu/IAcertificateappl.doc. For more information, contact Dr. David Dampier at 662-325-8923 or dampier@cse.msstate.edu.

Manufacturing

In addition to coursework, the Manufacturing Certificate requires actual work experience in a manufacturing environment equivalent to a cooperative work semester or a summer internship. The certificate is a means for students to gain an enhanced manufacturing related educational experience. Verification of employment by the employer, including a description of work duties may be required of the candidate prior to certification. The Manufacturing Certificate is jointly administered by the Department of Industrial and Systems Engineering and the Dean of Engineering. For additional information, contact Ms. Rita Burrell at rburrell@bagley.msstate.edu.

Materials

The Materials Certificate recognizes the completion of an organized plan of study in the interdisciplinary materials related areas. Courses for the certificate cover topics on advanced composites, biomaterials, materials processing, polymers, and electrical materials. Through the combination of research and engineering, students may choose to specialize their certificate in any two additional areas of study that include: aerospace, biomedical, chemistry, computer, environmental, forest products, mechanical, and physics. The Materials Engineering Working Group (MWG) will serve as the advisory committee to oversee and recommend courses in the certificate group. The Materials Certificate is administered by the Dean of Engineering. Additional information, including course selection, may be accessed at http://www.bagley.msstate.edu/research/workinggroups/materials/index.php. For specific information, contact Dr. Judith Schneider, Materials Engineering Coordinator, at 662-325-9154 or Schneider@me.msstate.edu.

Chemical Engineering

Dave C. Swalm School of Chemical Engineering
Department Director: Dr. Bill Elmore, Interim
Graduate Coordinator: Dr. Todd French
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 with a concentration in Chemical Engineering. Graduate research assistantships are available. To secure additional information, write to the Graduate Coordinator (http://catalog.msstate.edu/graduate/colleges-degree-programs/engineering/chemical/#graduate-coordinator).

Admission Criteria

M.S. in Chemical Engineering; Ph.D. in Engineering with 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 (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:

Prerequisites		
Calculus sequence plus differential equations		
General chemistry (two semesters)		
Organic chemistry (two semesters)		
Physical chemistry		
Calculus-based physics (two semesters)		
Undergraduate Core Curriculum		
CHE 2114	Mass and Energy Balances	4
CHE 3113	Chemical Engineering Thermodynamics I	3
CHE 3123	Chemical Engineering Thermodynamics II	3
CHE 3203	Fluid Flow Operations	3
CHE 3213	Heat Transfer Operations	3
CHE 3223	Separation Processes	3
CHE 4113	Chemical Reactor Design	3

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.

Requirements for the M.S. with emphasis in Industrial Hazardous Waste Management include 24 hours of coursework, at least 12 hours of which must be at the 8xxx level. A minimum of 6 hours of Thesis/Research is required. The composition of the program of study is flexible, providing the student an opportunity to select courses in conjunction with the research advisor that allow his/her concentration in a particular area of waste management and/or chemical engineering.

Provisional Admission

Provisional admission is typically not available to students applying for graduate admission to the Dave C. Swalm School of Chemical Engineering.

Academic Performance

The Dave C. Swalm School of Chemical Engineering is committed to maintaining high standards for the graduate programs offered by the school. As a means to ensure satisfactory performance of all graduate students enrolled in the school, the guidelines for unsatisfactory performance are given:

- Failure to maintain an overall B average (3.00) in graduate courses attempted after admission to the program
- More than two grades of C in 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.

Doctor of Philosophy in Engineering with Chemical Engineering Concentration - Direct Admission

CHE XXXX	Graduate-level coursework	36
Dissertation esearch/dissertation		20
Total Hours		**56**

Doctor of Philosophy in Engineering - Post Master's

CHE XXXX	Graduate-level coursework	12
Dissertation esearch/dissertation		20
Total Hours		**32**

A student entering with an M.S. from another institution must demonstrate that he/she has satisfied the Chemical Engineering graduate core courses; if not, all or a portion of the 12 hours of core coursework may be required.

Master of Science in Chemical Engineering - Thesis

CHE 8011	Chemical Engineering Seminar	1
Chemical Engineering Core		
CHE 8113	Advanced Chemical Engineering Thermodynamics (Fall)	3
CHE 8123	Chemical Kinetics and Dynamics (Spring)	3
CHE 8223	Advanced Process Computations (Fall)	3
CHE 8523	Advanced Transport Phenomena (Spring)	3
Mathematics/Statistics at the 6000/8000-level		6
Technical electives at the 6000/8000 level [1]		6
CHE 8000	Thesis Research/ Thesis in Chemical Engineering	6
Total Hours		**31**

[1] Technical electives are chosen in conjunction with the research advisor.

Master of Science in Chemical Engineering - Non-Thesis

CHE 8011	Chemical Engineering Seminar	1
Chemical Engineering Core		
CHE 8113	Advanced Chemical Engineering Thermodynamics (Fall)	3
CHE 8123	Chemical Kinetics and Dynamics (Spring)	3
CHE 8223	Advanced Process Computations (Fall)	3
CHE 8523	Advanced Transport Phenomena (Spring)	3
Mathematics/Statistics at the 6000/8000-level		6
Technical electives at the 6000/8000 level [1]		6
Additional graduate-level coursework		8
Total Hours		**33**

[1] Technical electives are chosen in conjunction with the research advisor.

Completion Requirements for M.S. Students

All M.S. thesis students must prepare and successfully defend his/her thesis before a committee composed of faculty members of the University. All non-thesis MS students must satisfactorily complete a comprehensive examination.

Completion Requirements for Ph.D. Students

Qualifying Examination

A Ph.D. student in good standing must complete a qualifying exam during the summer semester following his/her first full academic year. The qualifying exam consists of satisfactory completion of a research proposition course in which students will be guided through development of a National Science Foundation-formatted research proposal and a final defense of the proposal in front of a committee composed of University graduate faculty.

Comprehensive Examination

Upon satisfactory completion of the graduate coursework, or within 6 hours of completion, a Ph.D. student must stand for a comprehensive examination. The student must present to his/her defense committee the results to date and planned research efforts through the completion of the Ph.D. program. This oral comprehensive examination will be comprised of a presentation by the student and a resulting question and answer session; it will provide a measure of the student's research skills and research progress. The comprehensive examination must be passed at least six months prior to graduation. Successful completion of the

comprehensive exam will result in the Ph.D. student's being admitted to Ph.D. candidacy.

Dissertation Defense

The candidate must prepare and successfully defend her/his dissertation before a committee composed of faculty members of the University.

Civil and Environmental Engineering

Department Head: Dr. Dennis D. Truax
Graduate Coordinator: Dr. James Martin
235 Walker Hall
Box 9546
Mississippi State, MS 39762
Telephone: 662-325-3050
E-mail: grad-coordinator@cee.msstate.edu
Website: http://www.cee.msstate.edu

The Civil and Environmental Engineering Department offers graduate study leading to degrees of Master of Science in Civil Engineering and Doctor of Philosophy in Engineering with a Civil Engineering concentration. Both the M.S. and Ph.D. are available via BCoE Learning (online). Major areas of study are include the following.

- construction engineering and management
- construction materials engineering
- environmental engineering
- geotechnical engineering
- structural engineering
- transportation engineering
- 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.

Space is also available for bench-scale and pilot-scale experimentation. Graduate assistantships are supported through sponsored research, instructional support and teaching assignments, and other departmental resources when available from the University, the Bagley College of Engineering, and the Department.

For information about the graduate program contact: Graduate Coordinator (http://catalog.msstate.edu/graduate/colleges-degree-programs/engineering/civil-environmental/#graduate-coordinator).

Admission Criteria

Prerequisites for regular admission to the Civil Engineering graduate program include all of the general requirements of the Office of the Graduate School. The minimum GPA for acceptance into the Civil and Environmental Engineering graduate program is 3.00 on a 4.00 scale as computed for courses that comprise the last two academic years of the degree. Graduates of programs not accredited by the Engineering Accreditation Commission of ABET (www.ABET.org (http://www.abet.org)) must submit acceptable GRE scores (verbal and quantitative). International students are required to have a minimum Test of English as a Foreign Language (TOEFL) score of 550 PBT (79 iBT) or an International English Language Testing Systems (IELTS) score of 6.5. Students must possess core competency in the sub-discipline in which they will focus their graduate studies. Applicants who do not meet the requirements for regular admission may be considered for contingent or provisional admission at the discretion of the department.

Contingent Admission

Applicants meeting University requirements for admission but failing to meet the Department's requirements for regular admission may be considered for contingent admission. An applicant with a bachelor's degree major other than civil and environmental engineering may be required to take remedial courses to prepare for graduate studies. Undergraduate remedial courses will be taken for no credit and a grade of B or better is required. To be removed from contingent status, the student must successfully complete remedial prerequisite courses as defined by the graduate committee with a grade of B or higher on each course.

Provisional Admission

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 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.

Master of Science in Civil Engineering - Thesis

7000-, 8000-, and/or 9000-level coursework		12
Additional graduate coursework		12
CE 8000	Thesis Research/ Thesis in Civil & Environmental Engineering	6
Total Hours		**30**

The student, in coordination with his or her 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; 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 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.

Master of Science in Civil Engineering - Non-Thesis

7000-, 8000-, and/or 9000-level coursework		15
Additional graduate coursework		12
CE 7000	Directed Individual Study in Civil & Environmental Engineering	6
Total Hours		**33**

The student, in coordination with his or her graduate committee, must develop a program of study which may include courses from other engineering disciplines, mathematics, the physical sciences and business administration. Specifically, the program of study must include:

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

The program of study is also limited to:

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

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

Doctor of Philosophy in Engineering with Civil Engineering Concentration

Doctoral students must complete a minimum of the equivalent of three academic years of applicable coursework beyond the bachelor's degree (interpreted as 75 credit hours beyond a bachelor's degree or 45 hours beyond a master's degree). A minimum of 20 hours of dissertation research is included. The doctoral student will be required to conduct research on an approved topic and prepare and successfully defend a dissertation.

Computational Engineering

Graduate Coordinator: Dr. Pasquale "PC" Cinnella
Center for Advanced Vehicular Systems (CAVS)
Box 9618
Mississippi State, MS 39762
Telephone: 662-325-5431
E-mail: cme-coordinator@hpc.msstate.edu

An Interdisciplinary Curriculum

The Computational Engineering graduate program is interdisciplinary, with faculty drawn from the academic departments of the College of Engineering and the College of Arts and Sciences, as well as the research faculty of the HPC^2. Programs of study and research leading to both the Master of Science degree and the Doctor of Philosophy degree are available. There is an increased demand by industry, academia, and government for scientists and engineers with a better knowledge of the skills necessary to create new technologies and improve upon existing ones through simulation tools. Such programs come with curricula covering a large range of subjects, so that they can produce scientists and engineers with broad backgrounds and viewpoints. These scientists and engineers can then be expected to understand the basic approaches to solving analytical problems and also using mathematical and computational tools required to arrive at solutions. The program is open to students with undergraduate degrees in engineering, computer science, mathematics, or a physical science. Research assistantships are available through research projects in the HPC^2.

Admission Criteria

To be admitted, the student must meet the admission requirements of the Office of the Graduate School and receive a positive recommendation from the Computational Engineering screening committee. International students must have scored at least 550 PBT (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 Graduate Coordinator.

Academic Performance

Continued enrollment in the graduate program in Computational Engineering is dependent upon satisfactory performance in the courses and satisfactory progress toward completion of the degree. To achieve satisfactory performance, a student must

1. maintain a B average on:
   a. all undergraduate prerequisite courses;
   b. all graduate courses completed after admission to the program;
   c. all graduate courses included on the student's program of study;
2. have no more than one grade less than C;
3. have a major advisor and a supervisory committee (after the first two semesters of enrollment).

Should a student's cumulative grade point average (in any of the three categories above) be less than 3.00 at the end of a term, the student will be placed on "probation" and will be given one semester to earn a cumulative grade point average of 3.00 or greater. If at the end of the probationary term the student's cumulative grade point average (in any of the three categories above) is less than 3.00, the student's program of study will be terminated immediately. If the student enrolls in the summer term, it will count as one term.

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

Graduate Courses

Because of the interdisciplinary nature of the Computational Engineering program, courses listed under the "Courses" tab 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 (http://catalog.msstate.edu/graduate/colleges-degree-programs/engineering/computational/#graduate-coordinator).

Master of Science in Computational Engineering - Thesis

8000-level coursework	12
Additional graduate-level coursework	12
Research/thesis	6
Total Hours	**30**

Master of Science in Computational Engineering - Non-Thesis

8000-level coursework	15
Additional graduate-level coursework	15
Research project	3
Total Hours	**33**

Doctor of Philosophy in Computational Engineering

The Doctor of Philosophy in Computational Engineering, in addition to the coursework and research hours, includes a comprehensive examination, a dissertation, and dissertation defense. Each candidate for the doctoral degree must conduct research and in their dissertation defense on that research

1. demonstrate a mastery of the techniques of research and
2. make a very distinct contribution to the field of Computational Engineering.

The dissertation must conform to the rules of the Office of the Graduate School.

For direct-admit Ph.D. students, 72 credit hours beyond the B.S. are required (48 credit hours of coursework and 24 credit hours of dissertation research).

Computer Science and Engineering

Department Head: Dr. Donna Reese
Graduate Coordinator: Dr. T.J. Jankun-Kelly
300 Butler Hall
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Mississippi State, MS 39762-9637
Telephone: 662-325-2756
Fax: 662-325-8997
E-mail: office@cse.msstate.edu

Website: http://www.cse.msstate.edu

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 include the following.

- 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 or IELTS score (for applicable international students)
- scores on the general test of the Graduate Record Examination (GRE)
- three letters of recommendation
- statement of the applicant's career goals and objectives
- application fee

International students will also need a Document of Support Form and associated documentation, which are typically submitted after approval for admission.

In addition, the applicant is encouraged to submit directly to the Department of Computer Science and Engineering any additional information (such as GRE subject test scores, résumé, etc.) that supports his/her application.

The department's application form for assistantships is separate from the application for graduate admission. This application can be downloaded from http://www.cse.msstate.edu/prospective/grad/assistantships.php. For additional information visit the departmental Website.

Application Dates

Applications may be submitted at any time. Completed applications should be received by the dates specified by the Office of the Graduate School. Preference for awarding assistantships will be given to applications received by

Summer	February 1
Fall	February 1
Spring	October 1

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 *Graduate School Catalog* and submit all documents as required in the application information (http://catalog.msstate.edu/graduate/admissions-information);
- 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 (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 (79 iBT) or IELTS of 6.5 but at least 500 PBT (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.

Accelerated Program (5-Year B.S./M.S.) Requirements

The 5-Year B.S./M.S. Program enables a student to complete both a bachelor's degree in Computer Science or Software Engineering and a master's degree in Computer Science in approximately five years. The program has the following features.

- A student must apply for admission to the program no sooner than the end of the sophomore year (60 hours or more of graded courses). The criteria for admission assesses whether the applicant possesses those qualifications and interests that indicate to the department's Graduate Studies Committee that the applicant will be successful in the MSU M.S. in Computer Science program. The applicant must have an overall GPA of 3.5.
- A student must have senior standing to enter the program. A student is classified as an undergraduate until all the requirements for the undergraduate degree are fulfilled, at which point the student is then classified as a graduate student.
- A maximum of 9 hours of graduate courses taken after entering the program and prior to completing the bachelor's degree can count toward both the bachelor's degree and the program of study for the Master of Science in Computer Science degree. In order to count toward the master's degree, such courses must conform to other requirements for the M.S. degree. The program will follow procedures established by the Registrar for dual counting.
- During the senior year, if a student in the program enrolls in any graduate courses during a given term, then the maximum load of combined graduate and undergraduate courses is 16 credits during that fall or spring semester, or 6 credits during that summer (all summer terms combined).
- During the senior year, approval to enroll in graduate courses will be granted by the department's graduate coordinator.
- During the senior year, graduate courses at the 6000-level will count toward the Bachelor of Science degree similarly to the corresponding 4000-level courses.
- During the senior year, graduate courses at the 7000-level or above will count toward the Bachelor of Science degree as technical electives.
- During the senior year, the student will submit a normal admission application package for the M.S. degree, including GRE scores and application fee.
- 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 admissions information (http://catalog.msstate.edu/graduate/admissions-information) in the *Graduate School Catalog* 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.

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.

Academic Performance

Academic Probation

Requirements of the Graduate School apply as explained in the Bulletin of the Graduate School section "General Degree Completion Requirements."

Once admitted to the graduate program in Computer Science, a student who fails to maintain a satisfactory academic record will be considered to be on academic probation. A graduate GPA will be computed for each student at the end of each semester. The student's graduate GPA is the average of all graduate courses attempted while in the CS graduate program.

- A student whose graduate GPA drops below 3.00 is automatically on academic probation.
- A student who obtains a grade below a B on a prerequisite course is automatically on academic probation.
- To be removed from probation, the student, by the completion of the next nine credit hours of progress toward the degree, must:
  - achieve a graduate GPA of 3.00 or above and
  - earn a grade of B or above on any prerequisite course for which a grade lower than B was previously obtained.

With the approval of the Graduate Coordinator and the Dean of the College of Engineering, a student may retake one course per degree. This policy applies to all courses (even those not on the program of study) taken as a graduate student related to a specific program, and only to those courses taken at MSU. With the exception of those courses approved for repeated credit (e.g., internships, special topics, individual studies, thesis, dissertation, etc.), a specific course may be repeated only once. Both courses will remain on the permanent transcript, and both grades will be computed in final averages. No additional program credit hours will be generated from a repeated course.

At the beginning of each semester the Department of Computer Science and Engineering Graduate Studies Committee evaluates the records of all Computer Science graduate students currently on probation, as well as students with multiple grades of C and those making a grade of D, F, or U during the previous semester. The committee will consider recommending that the Dean of the College of Engineering dismiss a student enrolled in a graduate program in Computer Science if:

- The student was admitted on TOEFL contingency and fails to make satisfactory progress towards completion of the appropriate English as a Second Language sequence of courses.
- The student was admitted without GRE scores and fails to take the GRE General Test during the next semester or fails to obtain a satisfactory composite score on the GRE.
- The student was admitted with contingencies due to deficiencies in prerequisite coursework and fails to make satisfactory progress toward completion of the prerequisites.
- The student is on academic probation and is unable to meet all requirements for removal from probation by the completion of the next 9 credit hours of progress toward the degree.
- The student makes a grade of D or F in a graduate or undergraduate course attempted while in the graduate program in Computer Science or 6 or more credit hours of C grades.
- The student receives a grade of U in an S/U graded course.

Appeals Process

A student who has been dismissed from the Computer Science graduate program has the right to appeal the dismissal.

- Within four weeks of being notified of the dismissal, a student who wishes to appeal must write a letter requesting a reconsideration of the dismissal, giving all pertinent facts and explaining any extenuating circumstances. The letter should be addressed to the Head of the Department of Computer Science and Engineering. The Head of the Department of Computer Science and Engineering will review this appeal and will render a decision within five working days. If the decision is in favor of the student, the Head of the Department of Computer Science and Engineering will recommend to the Dean of the College of Engineering that the student's dismissal from the Computer Science graduate program be rescinded.
- If the student is dissatisfied with the decision of the Department Head, the student may appeal in writing to the Dean of the College of Engineering. See Appeal of Academic Dismissal in this publication.
- If this appeal is unsuccessful, the student may then appeal to the Provost and Vice President for Academic Affairs.

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	3
MA 2733	Calculus III	3
ECE 3724	Microprocessors	4
CSE 3813	Introduction to Formal Languages and Automata	3
CSE 4713/6713	Programming Languages	3
CSE 4733/6733	Operating Systems I	3
CSE 4833/6833	Introduction to Analysis of Algorithms	3

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.

Master of Science in Computer Science - Thesis

Fundamental Areas Courses		
Select at least three of the following: [1]		9-10
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	
Theory Courses		
Select one of the following:		3
CSE 8813	Theory of Computation	
CSE 8833	Algorithms	
CSE 8843	Complexity of Sequential and Parallel Algorithms	
CSE 8990	Special Topics in Computer Science and Engineering [2]	
Seminar		
CSE 8011	Graduate Seminar	1
Additional Coursework		
8000 or 9000-level graduate-level coursework [3]		12

Research/Thesis		
CSE 8000	Thesis Research/ Thesis in Computer Science and Engineering	6
Total Hours		**31-32**

1. 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.
2. On a topic which has been designated in advance by the department as a theory course fulfilling this requirement.
3. A minimum of 12 credit hours of full graduate (8000- or 9000-level) computer science courses must be included in the program of study.

The student must:

- 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
- defend the thesis research to his/her Graduate Committee at a formal presentation at the time of the comprehensive examination.

A student may only select the thesis option if a member of the graduate faculty has agreed to serve as the thesis director.

Master of Science in Computer Science - Non-Thesis

Fundamental Areas Courses		
Select at least three of the following: [1]		9-10
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	
Theory Courses		
Select one of the following:		3
CSE 8813	Theory of Computation	
CSE 8833	Algorithms	
CSE 8843	Complexity of Sequential and Parallel Algorithms	
CSE 8990	Special Topics in Computer Science and Engineering [2]	
Seminar		
CSE 8011	Graduate Seminar	1
8000 or 9000-level graduate-level coursework [3, 4]		21
Total Hours		**34-35**

1. 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.
2. On a topic which has been designated in advance by the department as a theory course fulfilling this requirement.
3. A minimum of 15 credit hours of the courses in the program of study must be at the full graduate level (numbered 8000 or 9000).
4. One of the three additional courses may be CSE 8080 if the student's major professor (or another member of the student's graduate committee) agrees to direct the project;

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. The master's comprehensive examination is held in conjunction with the student's project presentation.

Doctor of Philosophy in Computer Science

Major Coursework		
Select two of the following Theory of Computation courses:		6-12
CSE 8813	Theory of Computation	
CSE 8833	Algorithms	
CSE 8843	Complexity of Sequential and Parallel Algorithms	
CSE 8990	Special Topics in Computer Science and Engineering [1]	
Select 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): [2]		18
Artificial Intelligence		
Software Engineering		
High Performance Computing		
Graphics and Visualization		
Computer Security		
Select at least three of the following Fundamental Areas courses: [3]		9-10
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	
CSE 8011	Graduate Seminar	1
Additional 8000- to 9000-level coursework		9
Dissertation		
CSE 9000	Dissertation Research/ Dissertation in Computer Science and Engineering [4]	20
Total Hours		**63**

1. On a topic designated in advance by the department as a theory course fulfilling this requirement.
2. 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.
3. 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.

4 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).

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.

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.

Examination Procedure

During preparation for the doctoral degree, the student will be required to complete three examinations and present an oral dissertation proposal. The examinations are the qualifying examination, typically taken during the student's first year of study; a preliminary examination, taken after the student has completed (or is within 6 hours of having completed) all coursework and has had a dissertation topic approved; and the final examination, taken when all other examinations and the dissertation have been completed.

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

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

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

Minor in Computer Science, Master's Degree Program

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

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

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. The minor professor will be included in the student's supervisory committee.

Minor in Computer Science, Doctoral Degree Program

The Graduate Council requires that a student who wishes to earn a minor in computer science in a Ph.D. degree program complete at least 12 semester hours of computer science graduate credit, not to include CSE 6613. In addition, the Department of Computer Science and Engineering requires that the following requirements be satisfied:

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

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. The minor professor will be included in the student's supervisory committee.

University policy on graduate minors is located in the Master of Science and Doctor of Philosophy sections in this publication.

Electrical and Computer Engineering

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Graduate Coordinator: Dr. James E. Fowler
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Box 9571
Mississippi State, MS 39762
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Fax: 662-325-2298
E-mail: eegpd@ece.msstate.edu
Website: 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 Fall 2012 semester, the Department of Electrical and Computer Engineering no longer offers separate electrical engineering (EE) or computer engineering (CPE) degrees at the graduate level.

Admission Criteria

In addition to meeting the requirements set forth by the Graduate School in the admission section of this publication, the basic requirements of the department for admission to the graduate program include

- a 3.00/4.00 GPA on a B.S. degree for admission to the M.S. degree program;
- a 3.50/4.00 GPA on a B.S. or M.S. degree for admission to the Ph.D. degree program;
- a 550 PBT TOEFL score (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.

Conditional Admission

Students who are fully funded by some external source (typically a scholarship program sponsored by the government of the student's home country) and who meet all other admission requirements, but lack only the TOEFL/IELTS score required for admission, may apply to be admitted conditionally, provided that the student's funding source will cover one year of English as a Second Language (ESL) study. After one year of ESL study, the student can apply for regular admission into the graduate program in Electrical and Computer Engineering providing that a TOEFL/IELTS score meeting admission requirements (79 TOEFL, 6.5 IELTS) has been obtained. Conditional admission is available only for the fall semester. During the time of ESL study, a conditionally admitted student may only take ESL courses; a conditionally admitted student may not take courses other than ESL courses, or engage in research activities, during the time of ESL study. To be considered for conditional admission, the student must include in their statement of purpose submitted with their application for admission a statement that they wish to be considered for conditional admission. Documentation of the source of funding indicating that the funding will cover a year of ESL study must also be submitted with the application materials.

Accelerated Program (B.S./M.S. Combined Degree)

Highly qualified MSU undergraduates in the Department of Electrical and Computer Engineering are encouraged to consider applying to the Accelerated Program. This program permits students to earn up to 9 hours of graduate-level coursework during their final year of undergraduate studies. Students in the Accelerated Program take graduate-level courses and earn both undergraduate credit and graduate credit simultaneously. Students need to consult with a potential graduate advisor to ensure graduate credit could be applied to a program of study for the graduate degree. Application to this program is made in the junior year (i.e., after completion of 60 or more hours of graded undergraduate courses). Students interested in applying to the Accelerated Program should contact the department's graduate coordinator, Dr. James E. Fowler, for more details.

Requirements for admission into the Accelerated Program requires the following:

- A GPA of 3.50 or higher on a 4.00 system for all undergraduate work; and
- A minimum of 60 hours toward the Bachelor's degree.

For students enrolled in an Accelerated Program (i.e., Bachelor's/ Master's combined degree program), the MSU Graduate Council has established these guidelines in cooperation with the Registrar's Office.

- Once the student is accepted into the Accelerated Program, the student and the advisor may select up to 9 hours that will satisfy both undergraduate and graduate requirements. These courses may be split-level (i.e., 4000-6000) or 8000 level classes. The student should take the courses for graduate credit (i.e., 6000-level or higher). The combination of undergraduate and graduate credit hours may not exceed 13 hours within a semester.
- The student should use the Undergraduate Enrollment in Accelerated Degree Program form (http://www.grad.msstate.edu/forms/pdf/accel.pdf) to (i) receive from the Office of the Graduate School a level override that enables the student to enroll in the graduate course(s) and (ii) activate a process with the Registrar's Office to obtain both undergraduate and graduate credit for the course. After successfully completing the graduate-level class(es), the Registrar will grant credit for the undergraduate course with the same grade as received for the graduate course. For a split-level class, the transcript will show credit for both the 4000- and 6000-level on the transcript. In the case of an 8000 level class, a special topics undergraduate course of the same title will be entered on the transcript to allow dual credit.

- Students are permitted to opt out of the accelerated program at any time, at which point they would complete only the undergraduate portion of the program. No additional dual counting of courses would occur after the student opted out of the accelerated degree program.
- Students are expected to apply to the graduate degree program during the last semester in which they are enrolled in the bachelor's program. Application to the graduate degree program would be made through the standard application process via the Office of the Graduate School. 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 graduate degrees in order to receive both degrees and those requirements will be identical to the requirements for students enrolled in traditional bachelor's and graduate degree programs. Students will be classified as undergraduates until they fulfill all the requirements for the undergraduate degree. At that time, upon admission to graduate school, they will be classified as graduate students and will be subject to all the guidelines pertaining to the graduate degree.

Academic Performance

To be in good academic standing, a student is expected to maintain a cumulative graduate GPA of 3.00 after admission to the program. If a graduate student's cumulative GPA falls below 3.00, the student will be placed on probation. While on probation, a student will not receive any type of financial support (TA, RA, fellowships, wages, etc.) and is required to raise his/her cumulative GPA to 3.00 by the end of the following semester of enrollment. While on probation, the student must enroll in 9 credit hours of coursework; Directed Individual Study courses are excluded.

A student will be dismissed from the graduate program if

- in any semester subsequent to being on probation, the student's cumulative GPA falls again below a 3.00;
- a student makes grades of D, F, U, or more than two Cs;
- a student fails twice the oral examination (M.S. level) or the preliminary examination (Ph.D. level);
- a student does not pass the Ph.D. qualifying exam in four attempts, within the first four semesters;
- a student receives an unsatisfactory evaluation of a thesis or dissertation;
- a student fails to take a remedial course in the required semester.

In case of a dismissal from the graduate program, a student may appeal his/her academic dismissal according to the following procedure:

- Within four weeks of being notified of the official dismissal, the student must present the request and related explanation in writing to the department head and/or graduate coordinator. The department head/coordinator will review the appeal with the departmental graduate committee and render a recommendation.
- If the appeal at the departmental level is unsuccessful, a student may then appeal to the college dean.
- If the appeal at the college level is unsuccessful, the student may then appeal to the Provost and Vice President for Academic Affairs.

Prerequisite and Core Courses

It is required that all graduate students take the following courses for credit as required remedial undergraduate coursework unless the transcript shows equivalent credit. Additional courses may be required.

ECE 3413	Introduction to Electronic Circuits	3
ECE 3424	Intermediate Electronic Circuits	4
ECE 3443	Signals and Systems	3
ECE 3714	Digital Devices and Logic Design	4
ECE 3724	Microprocessors	3-4
or ECE 4743	Digital System Design	

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 for the M.S. with thesis is 30 credit hours and for the M.S. non-thesis is 33 credit hours past the B.S. Minimum requirements for the Ph.D. is 48 credit hours past the M.S. or 66 credit hours past the B.S. for direct-admit Ph.D. students.

Master of Science in Electrical and Computer Engineering - Thesis

Graduate coursework with a minimum of 12 credit hours at the 8000 level [1]		24
ECE 8000	Thesis Research/ Thesis in Electrical and Computer Engineering	6
Total Hours		**30**

[1] Students can also take up to 6 hours in ECE 7000, and a minor area outside the department is optional (9 credit hours with a minimum of 3 credit hours at the 8000 level).

Students are required to orally defend their 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.

Master of Science in Electrical and Computer Engineering - Non-Thesis

Minimum requirements for the non-thesis option are 30 credit hours and passing an oral examination. The oral examination consists of a comprehensive exam related to all the graduate level courses taken toward the degree. At least 15 hours of coursework must be taken at the 8000 level.

Doctor of Philosophy in Electrical and Computer Engineering

ECE 8XXX	Graduate-level coursework	12
ECE XXXX	Additional graduate-level coursework [1]	12
ECE 9000	Dissertation Research /Dissertation in Electrical and Computer Engineering	24
Total Hours		**48**

[1] Students can also take up to 6 hours in ECE 7000, and a minor area outside the department is optional (12 credit hours at the Ph.D. level with a minimum of 3 credit hours at the 8000 level).

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.

Doctor of Philosophy in Electrical and Computer Engineering - Direct-Admit

ECE 8XXX	Graduate-level coursework	21
ECE XXXX	Graduate-level coursework [1]	21
ECE 9000	Dissertation Research /Dissertation in Electrical and Computer Engineering	24
Total Hours		**66**

[1] Students can also take up to 6 hours in ECE 7000, and a minor area outside the department is optional (12 credit hours at the Ph.D. level with a minimum of 3 credit hours at the 8000 level).

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.

Completion Requirements

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.

Engineering Mechanics

Associate Dean for Research and Graduate Studies: Dr. Kari Babski-Reeves, Interim
250 McCain
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.

General Engineering

Associate Dean for Research and Graduate Studies: Dr. Kari Babski-Reeves, Interim
250 McCain Engineering Building
Mississippi State, MS 39762
Telephone: 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
GE 8990	Special Topics in General Engineering	1-9
GE 9000	Dissertation Research /Dissertation in General Engineering	20

Industrial and Systems Engineering

Department Head: Dr. John M. Usher, PE
Graduate Coordinator: Dr. Stan Bullington
260 McCain Building
Box 9542
Mississippi State, MS 39762
Telephone: 662-325-3865
E-mail: grad@ise.msstate.edu

The Department of Industrial and Systems Engineering offers the Doctor of Philosophy in Industrial and Systems Engineering. In addition, the Department offers the Master of Science in Industrial Engineering with both thesis and non-thesis options. The M.S. (thesis option) is a research-oriented degree and serves to prepare students for positions in industry or government or for further graduate study in industrial and systems engineering or related areas. The M.S. (non-thesis option) is designed to prepare students for positions in business and industry that require a graduate education.

Concentrations offered at the master's level are:

Human Factors and Ergonomics Concentration (HFE)

This concentration is designed for students who wish to increase their understanding of Human Factors and Ergonomics (HFE). Students will be exposed to both a breadth and depth of HFE principles and practices including but not limited to physical ergonomics, cognitive ergonomics, and occupational safety and health.

Industrial Systems Concentration (SYS)

This concentration prepares students for general Industrial and Systems Engineering (ISE) work. It is designed to allow the student a high degree of flexibility in selecting a program that meets his/her needs. For example, the student might choose to specialize in one or more areas of ISE (e.g.,

quality engineering) or choose a very broad program covering several ISE fields.

Management Systems Engineering Concentration (MGTS)

This concentration is designed for students who wish to increase their understanding and capability in the areas of management systems engineering and general engineering management. The philosophy behind this option is that students can be provided with knowledge that will enable them to apply an engineering approach to problems involved in the design and operation of management systems.

Manufacturing Systems Concentration (MFGS)

This concentration is designed for students who wish to increase their understanding of the design, analysis and control of manufacturing systems and processes.

Operations Research Concentration (OPRS)

This concentration is designed for students who wish to increase their understanding of and use of Operations Research (OR) skills for systems analysis and design.

Accelerated Programs (Combined B.S./ M.S.)

Bachelor of Science in Industrial Engineering/Master of Science in Industrial Engineering

Highly qualified undergraduates in the Bagley College of Engineering are encouraged to consider applying to the Accelerated Program (Combined B.S./M.S.) in Industrial and Systems Engineering. This program permits the students to earn up to 9 hours of graduate level coursework after the completion of 75 hours of graded coursework toward their B.S. degree. Students take graduate-level courses and earn both undergraduate credit and graduate credit simultaneously. Students need to consult with the graduate coordinator to ensure grade credit could be applied to a program of study for the graduate degree. Application to this program may be made when the student has completed 75 hours of graded coursework toward the completion of a B.S. degree in an engineering discipline. Students interested in applying to the Accelerated Program should contact the department's Graduate Coordinator for more details.

At the time a student applies to the program, the student must:

1. be enrolled at Mississippi State University in one of the eight Bagley College of Engineering programs;
2. have earned at least 75 hours toward their respective degree; and
3. have an overall cumulative grade point average (GPA) of at least 3.50.

An application package consists of the following items which must be submitted to the Graduate Coordinator of the Industrial and Systems Engineering Department.

1. Application form (NOTE: Students wishing to pursue a thesis in their M.S. program must have the support of an advisor prior to applying for the program.)
2. One-page résumé
3. Contact information for three references (included on the application form). Ideal references are those who are knowledgeable about the academic abilities of the applicant. the department will contact these references to gather additional information as needed to determine the acceptability of the study into the program.

The Industrial and Systems Engineering Graduate committee will review applications three times a year to assess whether students possess those qualifications and interests that are indicative of successful completion of the Industrial and Systems Engineering M.S. program.

For students enrolled in an Accelerated Program, the MSU Graduate Council has established the following guidelines in cooperation with the Registrar's Office.

Once the student is accepted into the accelerated program, the student and the advisor may select up to 9 hours that will satisfy both undergraduate and graduate requirements. these courses may be split-level (i.e. split 4000-6000 level) or 8000-level classes. The student should take the courses for graduate credit (i.e., 6000-level or higher). The combination of undergraduate and graduate credit hours may not exceed 13 within a semester.

The student should use the Undergraduate Enrollment in Accelerated Degree Program form (http://www.grad.msstate.edu/forms/pdf/accel.pdf) to (i) receive from the Office of the Graduate School a level override that enables the student to enroll in the graduate course(s) and (ii) activate a process with the Registrar's Office to obtain both undergraduate and graduate credit for the course. After successfully completing the graduate-level class(es), 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 4000- and 6000-level on the transcript. In the case of an 8000-level class, a special topics undergraduate course of the same title will be entered on the transcript to allow dual credit.

Students are permitted to opt out of the accelerated program at any time, at which point they could complete only the undergraduate portion of the program. No additional dual counting of courses would occur after the students opted out of the accelerated degree program.

Students are expected to apply to the graduate degree program during the last semester in which they are enrolled in the Bachelor's program. Application to the graduate degree program would be made through the standard application process via the Office of the Graduate School. Students will received 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 graduate degrees in order to receive both degrees and those requirements will be identical to the requirements for students enrolled in traditional bachelor's and graduate degree programs. Students will be classified as undergraduates until they fulfill all the requirements for the undergraduate degree. At that time, upon admission to graduate school, they will be classified as graduate students and will be subject to all the guidelines pertaining to the graduate degree.

Bachelor of Science in Industrial Engineering/Master of Business Administration-Project Management

Highly qualified undergraduates in the Department of Industrial & Systems Engineering are encouraged to consider applying to the B.S.I.E./M.B.A.-P.M. Accelerated Program. This program permits the students to earn up to 9 hours of graduate level coursework during their undergraduate industrial engineering coursework. These 9 hours are taken as graduate-level courses and earn both undergraduate credit (toward B.S.I.E. completion) and graduate credit (toward M.B.A.-P.M. completion) simultaneously. The Accelerated Program

allows students to complete three foundational courses in the M.B.A.-P.M.program while still pursuing their B.S.I.E. The courses approved for the Accelerated program are IE 6333 (Production Control 1), IE 6533 (Project Management), and IE 6653 (Industrial Quality Control 1). Junior and senior industrial engineering students with a cumulative GPA of 3.50 or higher are eligible to apply. Students interested in applying to the B.S.I.E./M.B.A.-P.M. Accelerated Program should contact Dr. Lesley Strawderman, ISE Undergraduate Coordinator. Ms. Angelia Knight is Director of the MBA programs in the College of Business.

Admission requirements include:

- A GPA of 3.50/4.00 for all undergraduate work;
- A minimum of 60 hours towards the bachelor's degree;
- Completed application available from the Department of Industrial and Systems Engineering.
- Résumé.

For students enrolled in an Accelerated Program, the MSU Graduate Council has established the following guidelines in cooperation with the Registrar's Office.

Once the student is accepted into the accelerated program, the student and the advisor may select up to 9 hours that will satisfy both undergraduate and graduate requirements. These courses may be split-level (i.e. split 4000-6000 level) or 8000-level classes. The student should take the courses for graduate credit (i.e., 6000-level or higher). The combination of undergraduate and graduate credit hours may not exceed 13 within a semester.

The student should use the Undergraduate Enrollment in Accelerated Degree Program form (http://www.grad.msstate.edu/forms/pdf/accel.pdf) to (i) receive from the Office of the Graduate School a level override that enables the student to enroll in the graduate course(s) and (ii) activate a process with the Registrar's Office to obtain both undergraduate and graduate credit for the course. After successfully completing the graduate-level class(es), 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 4000- and 6000-level on the transcript. In the case of an 8000-level class, a special topics undergraduate course of the same title will be entered on the transcript to allow dual credit.

Students are permitted to opt out of the accelerated program at any time, at which point they could complete only the undergraduate portion of the program. No additional dual counting of courses would occur after the students opted out of the accelerated degree program.

Students are expected to apply to the MBA degree program during in their senior year through the standard application process via the Office of the Graduate School. Students will received 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 graduate degrees in order to receive both degrees and those requirements will be identical to the requirements for students enrolled in traditional bachelor's and grade degree programs. Students will be classified as undergraduates until they fulfill all the requirements for the undergraduate degree. At that time, upon admission to graduate school, they will be classified as graduate students and will be subject to all the guidelines pertaining to the graduate degree.

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. All entering students must submit GRE general-test scores. International students must have a minimum TOEFL score of 550 PBT (79 iBT) or IELTS score of 6.5.

The department reviews completed applications four times a year: February 15, May 15, August 15, and November 15. Incomplete or not fully processed applications will be reviewed during the next cycle.

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.

Academic Performance

In addition to the criteria defined in the current Bulletin of the Graduate School, unsatisfactory performance in the graduate program in Industrial and Systems Engineering is defined as any of the following:

- failure to maintain a 3.00 average in the M.S. program or 3.30 in the Ph.D. program,
- failure of the qualifying exam (Ph.D. students only),
- failure of the preliminary exam (Ph.D. students only);
- failure of the comprehensive final exam (M.S. non-thesis option only),
- unsatisfactory evaluation of thesis or dissertation, or
- a failure of the required component of the program of study.

Any one of these will constitute the basis for review for possible dismissal. If the students drops six or more quality points below the required average (3.00 for M.S. or 3.30 for Ph.D.), the graduate coordinator will review the record along with the student’s graduate committee and will recommend a final course of action, which will be immediate dismissal or the establishment of a probationary period in which corrective action must take place.

While on probation, the student is not eligible to receive an assistantship and is required to raise his/her cumulative GPA to 3.00 for M.S. or 3.30 for Ph.D. by the end of the following semester of enrollment. During that semester, the student must enroll in 9 credit hours of coursework; Directed Individual Study courses are excluded.

In case of a dismissal from the graduate program, a student may appeal his/her academic dismissal according to the following procedure:

- Within four weeks of being notified of the official dismissal, the student must present the request and related explanation in writing to the graduate coordinator. The graduate coordinator will review the

appeal with the appropriate departmental committee and render a recommendation.

- If the appeal at the departmental level is unsuccessful, a student may then appeal to the Associate Dean for Research and Graduate Studies in the college.
- If the appeal at the college level is unsuccessful, the student may then appeal to the Office of the Provost.

Doctor of Philosophy in Industrial & Systems Engineering

Industrial Engineering courses		30
Courses in discipline other than Industrial Engineering		6
IE 6623	Engineering Statistics II (or equivalent)	3
IE 6773	Systems Simulation I (or equivalent)	3
Additional Graduate-level coursework		6
Research		20
Total Hours		**68**

A preliminary examination, a dissertation, and an oral examination in defense of the dissertation are required.

Additional requirements are:

1. No ISE graduate student may list 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).

Doctoral students must complete at least 48 hours of coursework beyond the B.S. level.

Master of Science in Industrial Engineering with Human Factors and Erognomics Concentration (HFE) - Thesis

Prerequisites (foundational courses) are:

- MA 1713
- MA 1723
- MA 2733
- MA 2743
- IE 3123
- IE 4613/6613

IE 6773	Systems Simulation I	3
IE 6623	Engineering Statistics II	3
At least 3 HFE ISE courses		9
IE 8000	Thesis Research/ Thesis in Industrial Engineering	6
At least one non-HFE ISE course		3
At least one course from Mathematics (MA) or Statistics (ST)		3
At least one course from a supporting area (Biological Engineering [ABE], Psychology [PSY], Kinesiology [KI], Mechanical Engineering [ME], Mathematics [MA], Statistics [ST], etc.)		3
Total Hours		**30**

A thesis and an oral comprehensive examination in defense of the thesis are required.

Additional requirements are:

1. A minimum of 12 hours coursework must be at the 8000-level or higher.
2. No ISE graduate student may list ST 8114 or IE 6613 on his/her graduate program
3. No program can contain more than 9 hours of courses that are required in the bachelor's degree curriculum
4. No program can contain more than 6 hours of Directed Individual Study (IE 7000).

The thesis-option Master of Science in Industrial Engineering requires at least 24 credit hours of coursework above the baccalaureate degree. IE 9000 does not apply to M.S. students.

Master of Science in Industrial Engineering with Human Factors and Ergonomics Concentration (HFE) - Non-Thesis

Prerequisites (foundational courses) are:

- MA 1713
- MA 1723
- MA 2733
- MA 2743
- IE 3123
- IE 4613/6613

IE 6773	Systems Simulation I	3
IE 6623	Engineering Statistics II	3
At least three HFE ISE courses		9
At least two non-HFE ISE courses		6
At least two courses from Mathematics (MA) or Statistics (ST)		6
At least one course from a supporting area (Biological Engineering [ABE], Psychology [PSY], Kinesiology [KI], Mechanical Engineering [ME], Mathematics [MA], Statistics [ST], etc.)		3
Course to be selected by the academic advisor and graduate program committee		3
Total Hours		**33**

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. IE 8000 Research/Thesis does not apply to non-thesis students.

Additional requirements are:

1. No ISE graduate student may list 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).

The non-thesis Master of Science requires at least 33 credit hours of coursework above the baccalaureate degree. IE 9000 does not apply to M.S. students.

Master of Science in Industrial Engineering with Industrial Systems Concentration (SYS) - Thesis

Prerequisites (foundational courses) are:

- MA 1713
- MA 1723
- MA 2733
- MA 2743
- Computer programming proficiency
- IE 3123
- IE 3913
- IE 4333
- IE 4613/6613

IE 6773	Systems Simulation I	3
IE 8000	Thesis Research/ Thesis in Industrial Engineering	6
All other courses to be selected by the student along with the academic advisor and graduate program committee		21
Total Hours		**30**

A thesis and an oral comprehensive examination in defense of the thesis are required.

Additional requirements are:

1. A minimum of 12 hours coursework must be at the 8000-level or higher.
2. No ISE graduate student may list ST 8114 or IE 6613 on his/her graduate program
3. No program can contain more than 9 hours of courses that are required in the bachelor's degree curriculum
4. No program can contain more than 6 hours of Directed Individual Study (IE 7000).

The thesis-option Master of Science in Industrial Engineering requires at least 24 credit hours of coursework above the baccalaureate degree. IE 9000 does not apply to M.S. students.

Master of Science in Industrial Engineering with Industrial Systems Concentration (SYS) - Non-Thesis

Prerequisites (foundational courses) are:

- MA 1713
- MA 1723
- MA 2733
- MA 2743
- Computer programming proficiency
- IE 3123
- IE 3913
- IE 4333
- IE 4613/6613

At least 15 hours of 8000-level courses selected by the student along with the academic advisor and grade program committee.	15
Other courses to be selected by the student along with the academic advisor and grade program committee.	18
Total Hours	**33**

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. IE 8000 Research/Thesis does not apply to non-thesis students.

Additional requirements are:

1. No ISE graduate student may list 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).

The non-thesis Master of Science requires at least 33 credit hours of coursework above the baccalaureate degree. IE 9000 does not apply to M.S. students.

Master of Science in Industrial Engineering with Management Systems Engineering Concentration (MGTS) - Thesis

Prerequisites (foundational courses) are:

- B.S. in engineering from an ABET-accredited program or permission from the MSE Technical Committee
- IE 3913
- IE 4613/6613

IE 6513	Engineering Administration	3
IE 6533	Project Management	3
IE 6573	Process Improvement Engineering	3
IE 8583	Enterprise Systems Engineering	3
IE 8913	Engineering Economy II	3
IE 8000	Thesis Research/ Thesis in Industrial Engineering	6
At least two non-MSE ISE courses		6
Course to be selected by the student along with academic advisor and graduate program committee		3
Total Hours		**30**

A thesis and an oral comprehensive examination in defense of the thesis are required.

Additional requirements are:

1. A minimum of 12 hours at the 8000-level is required.
2. No ISE graduate student may list ST 8114 or IE 6613 on his/her graduate program
3. No program can contain more than 9 hours of courses that are required in the bachelor's degree curriculum

4. No program can contain more than 6 hours of Directed Individual Study (IE 7000).

The thesis-option Master of Science in Industrial Engineering requires at least 24 credit hours of coursework above the baccalaureate degree. IE 9000 does not apply to M.S. students.

Master of Science in Industrial Engineering with Management Systems Engineering Concentration (MGTS) - Non-Thesis

Prerequisites (foundational courses) are:

- B.S. in engineering from an ABET-accedited program or permission from the MSE Technical Committee
- IE 3913
- IE 4613/6613

IE 6513	Engineering Administration	3
IE 6533	Project Management	3
IE 6573	Process Improvement Engineering	3
IE 8583	Enterprise Systems Engineering	3
IE 8913	Engineering Economy II	3
At least two non-MSE ISE courses		6
Other courses to be selected by the student along with the academic advisor and graduate program committee		12
Total Hours		**33**

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. IE 8000 Research/Thesis does not apply to non-thesis students.

Additional requirements are:

1. No ISE graduate student may list 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).

The non-thesis Master of Science requires at least 33 credit hours of coursework above the baccalaureate degree. IE 9000 does not apply to M.S. students.

Master of Science in Industrial Engineering with Manufacturing Systems Concentration (MFGS) - Thesis

Prerequisites (foundational courses) are:

- B.S. in engineering from an ABET-accredited program or permission from the Manufacturing Systems Technical Committee
- Computer programming proficiency
- IE 4333/6333
- IE 4613/6613

IE 6653	Industrial Quality Control	3
IE 8333	Production Control Systems II	3
IE 8353	Manufacturing Systems Modeling	3
IE 8000	Thesis Research/ Thesis in Industrial Engineering	6
At least two Manufacturing Systems ISE courses		6
At least two non-Manufacturing Systems ISE courses		6
Course to be selected by the student along with the academic advisor and graduate program committee		3
Total Hours		**30**

A thesis and an oral comprehensive examination in defense of the thesis are required.

Additional requirements are:

1. A minimum of 12 hours coursework must be at the 8000-level or higher.
2. No ISE graduate student may list ST 8114 or IE 6613 on his/her graduate program
3. No program can contain more than 9 hours of courses that are required in the bachelor's degree curriculum
4. No program can contain more than 6 hours of Directed Individual Study (IE 7000).

The thesis-option Master of Science in Industrial Engineering requires at least 24 credit hours of coursework above the baccalaureate degree. IE 9000 does not apply to M.S. students.

Master of Science in Industrial Engineering with Manufacturing Systems Concentration (MFGS) - Non-Thesis

Prerequisites (foundational courses) are:

- B.S. in engineering from an ABET-accredited program or permission from the Manufacturing Systems Technical Committee
- Computer programming proficiency
- IE 4333/6333
- IE 4613/6613

IE 6653	Industrial Quality Control	3
IE 8333	Production Control Systems II	3
IE 8353	Manufacturing Systems Modeling	3
At least two Manufacturing Systems ISE courses		6
At least two non-Manufacturing Systems ISE courses		6
Other courses to be selected by the student along with the academic advisor and graduate program committee		12
Total Hours		**33**

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. IE 8000 Research/Thesis does not apply to non-thesis students. IE 9000 does not apply to M.S. students.

Additional requirements are:

1. No ISE graduate student may list 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).

The non-thesis Master of Science requires at least 33 credit hours of coursework above the baccalaureate degree.

Master of Science in Industrial Engineering with Operations Research Concentration (OPRS) - Thesis

Prerequisites (foundational courses) are:

- MA 1713
- MA 1723
- MA 2733
- MA 2743
- Computer programming proficiency
- IE 4613/6613

IE 6733	Linear Programming	3
IE 6773	Systems Simulation I	3
IE 8000	Thesis Research/ Thesis in Industrial Engineering	6
At least two OR ISE ccourses		6
At least two non-OR ISE courses		6
At least one course from Computer Science (CSE), Mathematics (MA), or Statistics (ST)		3
Course to be selected by the student along with the academic advisor and graduate program committee		3
Total Hours		**30**

A thesis and an oral comprehensive examination in defense of the thesis are required.

Additional requirements are:

1. A minimum of 12 hours coursework must be at the 8000-level or higher.
2. No ISE graduate student may list ST 8114 or IE 6613 on his/her graduate program
3. No program can contain more than 9 hours of courses that are required in the bachelor's degree curriculum
4. No program can contain more than 6 hours of Directed Individual Study (IE 7000).

The thesis-option Master of Science in Industrial Engineering requires at least 24 credit hours of coursework above the baccalaureate degree. IE 9000 does not apply to M.S. students.

Master of Science in Industrial Engineering with Operations Research Concentration (OPRS) - Non-Thesis

Prerequisites (foundational courses) are:

- MA 1713
- MA 1723
- MA 2733
- MA 2743
- Computer programming proficiency
- IE 4613/6613

IE 6733	Linear Programming	3
IE 6773	Systems Simulation I	3
At least two Operations Research ISE courses		6
At least two non-Operations Research ISE courses		6
At least one course com Computer Science (CSE), Mathematics (MA), or Statistics (ST)		3
Courses to be selected by the student along with the academic advisor and graduate program committee		12
Total Hours		**33**

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. IE 8000 Research/Thesis does not apply to non-thesis students. IE 9000 does not apply to M.S. students.

Additional requirements are:

1. No ISE graduate student may list 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).

The non-thesis Master of Science requires at least 33 credit hours of coursework above the baccalaureate degree.

Master of Engineering

Associate Dean for Research & Graduate Studies and Graduate Coordinator: Dr. Kari Babski-Reeves, Interim
Coordinator for Distance Education: Ms. Rita A. Burrell
160 McCain
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Mississippi State, MS 39762
Telephone: 662-325-5923
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An Interdisplinary Program

Graduate study is offered through the Office of the Dean, James Worth Bagley College of Engineering, leading to the degree of Master of Engineering (M Eng) The M Eng, designed primarily for the professional engineer, is a non-thesis, interdisciplinary program which is delivered online and combines graduate-level courses from different engineering programs into an advanced-level educational experience. All courses are delivered in a flexible, web-based format. This program is restricted to off-campus students only.

The M Eng upholds the same rigorous academic requirements as all engineering programs offered on the MSU campus and is a unique program in the state of Mississippi. Students enrolled in courses in this program may use credit hours to satisfy continuing education hours for the Mississippi Engineering Board of Registration. Licensed professional

engineers from other states also may use these courses to satisfy licensing requirements.

All students admitted to the M Eng should become familiar with all academic requirements and processes associated with graduate studies in the Bagley College of Engineering and Mississippi State University as noted in the MSU *Bulletin of the Graduate School* in the General Requirements of the Graduate School and General Master's Degree Requirements sections. The *Bulletin* is available at http://www.grad.msstate.edu/pdf/bulletin.pdf. For specific information about the program, contact Rita Burrell.

Admission Criteria

In addition to meeting the requirements set forth by the Graduate School as noted in the admission section of this publication, the basic requirements for admission to the M Eng include a 3.00/4.00 GPA on a B.S. degree in an engineering discipline area or remedial engineering coursework. Students should refer to the General Requirements for Admission section in the *Graduate School Bulletin* regarding University admission policy. A satisfactory performance is required on the GRE for students with a degree from a program that is not EAC/ABET-accredited. Consideration may be given to students who hold non-engineering undergraduate degrees on a case-by-case basis. Admission decisions are made by the Associate Dean for Research and Graduate Studies.

As part of the standard engineering undergraduate program, a student will have had mathematics through ordinary differential equations, one year of calculus-based physics, a general chemistry class, a class in electric circuits, and several courses in engineering mechanics. The commonality in fundamental coursework in ABET-accredited engineering programs generally allows for the offering of graduate-level engineering courses with a prerequisite of "graduate standing." A student with an unusual amount of practical work experience in an area will have "consent of Instructor" as a standard prerequisite. If specific, significant prerequisites are required for any course, these will be clearly identified when the course is posted.

Provisional Admission

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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.**

Unclassified Admission

In certain circumstances, a student may be granted admission in unclassified status. Only 9 hours of graduate coursework received as an unclassified student **may** be transferred to the M Eng with the approval of the Associate Dean for Research and Graduate Studies. Hours completed in unclassified status may not be used to satisfy provisional admission requirements.

Accelerated Program (B.S./M.S. Combined Degree)

Highly qualified undergraduates in the departments of Aerospace Engineering; Agricultural and Biological Engineering; Chemical Engineering; Civil and Environmental Engineering; Computer Science and Engineering; Electrical and Computer Engineering; Industrial and Systems Engineering; and Mechanical Engineering are encouraged to consider applying to the Accelerated Program. This program permits students to earn up to 9 hours of graduate-level coursework during their final year of undergraduate studies. Students in the Accelerated Program take graduate-level courses and earn both undergraduate credit and graduate credit simultaneously. Students need to consult with the Master of Engineering Graduate Coordinator to ensure graduate credit could be applied to a program of study for the graduate degree. Application to this program may be made as early as the end of the junior year (i.e., after completion of 90 or more hours of graded undergraduate courses). Students interested in applying to the Accelerated Program should contact the Master of Engineering Graduate Coordinator for more details.

At the time a student applies to the Accelerated B.S./M.S. program, s/he must:

- Be enrolled at Mississippi State University in one of the 11 undergraduate degree programs in the Bagley College of Engineering;
- Have completed a minimum of 60 credit hours toward a Bachelor's degree; and
- Have an overall GPA of 3.5 or higher for all undergraduate work.

An application packet to be submitted to the Graduate Coordinator of the Master of Engineer Program must include the following:

- Application form;
- One-page résumé; and
- Three letters of recommendation from references who are knowledgeable about the applicant's academic work.
- Admission into the Accelerated Program requires a GPA of 3.50 or higher on a 4.00 system for all undergraduate work.

For students enrolled in an Accelerated Program (i.e., Bachelor's/Master's combined degree program), the MSU Graduate Council has established these guidelines in cooperation with the Registrar's Office.

- Once the student is accepted into the Accelerated Program, the student and the advisor may select up to 9 hours that will satisfy both undergraduate and graduate requirements. These courses may be split-level (i.e., 4000-6000) or 8000 level classes. The student should take the courses for graduate credit (i.e., 6000-level or higher). The combination of undergraduate and graduate credit hours may not exceed 13 hours within a semester.
- The student should use the Undergraduate Enrollment in Accelerated Degree Program form (http://www.grad.msstate.edu/forms/pdf/accel.pdf) to (i) receive from the Office of the Graduate School a level override that enables the student to enroll in the graduate course(s) and (ii) activate a process with the Registrar's Office to obtain both undergraduate and graduate credit for the course. After successfully completing the graduate-level class(es), the Registrar will grant credit for the undergraduate course with the same grade as received for the graduate course. For a split-level class, the transcript will show credit for both the 4000- and 6000-level on the transcript. In the case of an

8000 level class, a special topics undergraduate course of the same title will be entered on the transcript to allow dual credit.

- Students are permitted to opt out of the accelerated program at any time, at which point they would complete only the undergraduate portion of the program. No additional dual counting of courses would occur after the student opted out of the accelerated degree program.
- Students are expected to apply to the graduate degree program during the last semester in which they are enrolled in the bachelor's program. Application to the graduate degree program would be made through the standard application process via the Office of the Graduate School. 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 graduate degrees in order to receive both degrees and those requirements will be identical to the requirements for students enrolled in traditional bachelor's and graduate degree programs. Students will be classified as undergraduates until they fulfill all the requirements for the undergraduate degree. At that time, upon admission to graduate school, they will be classified as graduate students and will be subject to all the guidelines pertaining to the graduate degree.

Graduate Committee

All graduate students are required to have a graduate committee. A graduate committee for a student in the M Eng is comprised of the Associate Dean for Research and Graduate Studies as major professor and two committee members who hold graduate faculty status in the Bagley College of Engineering. A student will select the two committee members in consultation with the Associate Dean.

Academic Performance

To be in good academic standing, a student is expected to maintain a cumulative graduate GPA of 3.00 after admission to the program. If a graduate student’s cumulative GPA falls below 3.00, the student will be placed on academic probation. The student must raise the cumulative GPA to 3.00 on the next 9 hours of approved coursework in order to return to satisfactory academic performance.

A student may be dismissed from the M Eng if:

- In any subsequent semester the student’s cumulative GPA again falls below 3.00
- A student makes a grade of D, F, or more than two Cs.

In the case of academic dismissal, the student may appeal his/her academic dismissal according to Appeal of Academic Dismissal as outlined in the MSU *Bulletin of the Graduate School*.

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, including the following.

- library Instruction
- research services
- borrow/order materials
- workshops
- Instructional Media Center

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.

Master of Engineering

8XXX	Graduate-level coursework	15
Additional graduate-level coursework [1]		18
Total Hours		**33**

[1] Up to 6 hours may be taken from outside the engineering field (normally business, science, mathematics, or statistics; upon petition to the Associate Dean for Research and Graduate Studies, other areas may be considered).

The curriculum for the M Eng is flexible with a minimum requirement of 33 hours of graduate coursework. Coursework is selected from courses offered across the Bagley College of Engineering. 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). There are no core requirements associated with the program.

A student pursuing the M Eng is required to pass a written comprehensive examination related to all graduate courses taken toward the degree. In order to take the examination, the student must be enrolled at MSU during the semester in which the examination is administered, must have a cumulative 3.00 GPA in **all** courses taken after admission to the program, and must be in the terminal semester of coursework or within 6 hours of completing coursework.

A student completing the degree must apply to take the comprehensive examination through the office of the Manager for Graduate and Distance Education, James Worth Bagley College of Engineering. The examination will be administered by the Associate Dean for Research and Graduate Studies. The examination will be open-book and open-notes and will be administered either in person or using testing tools available in WebCT. Each student is required to secure a proctor to monitor his/her comprehensive examination; the proctor must be approved by the associate dean at least two weeks prior to the examination. The student’s graduate committee will grade the examination with either a Pass or Fail as the final assessment. A student who fails the examination cannot apply to retake it until four months from the date of the original test. Two failures will result in the student’s being dropped from the M Eng program.

Mechanical Engineering

Department Head: Dr. Pedro Mago
Graduate Coordinator: Dr. Keith Walter
210 Carpenter Engineering Building
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Mississippi State, MS 39762
Telephone: 662-325-3260
Fax: 662-325-7223
E-mail: graduate@me.msstate.edu

Website: http://www.me.msstate.edu

The Mechanical Engineering program offers graduate study leading to the degrees of Master of Science in Mechanical Engineering and Doctor of Philosophy in Engineering with a Mechanical Engineering concentration. Both degrees are available via BCoE Learning (online). The major areas of study include the following.

- fluid mechanics
- solid mechanics
- thermal sciences
- materials and manufacturing
- mechanical design
- 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 the Graduate Coordinator.

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 (79 iBT) or IELTS score of 6.5.

Provisional Admission

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 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.

Master of Science in Mechanical Engineering - Thesis

ME 8XXX	Graduate-level coursework	12
Additional graduate-level coursework		12
ME 8000	Thesis Research/ Thesis in Mechanical Engineering	6
Total Hours		**30**

A thesis and a final oral exam are required.

Master of Science in Mechanical Engineering - Non-Thesis

ME 8XXX	Graduate-level coursework	15
Additional graduate-level coursework		18
Total Hours		**33**

Doctor of Philosophy in Engineering with Mechanical Engineering Concentration

ME 7000	Directed Individual Study in Mechanical Engineering	6
Graduate-level coursework		36
ME 9000	Dissertation Research /Dissertation in Mechanical Engineering	20
Total Hours		**62**

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.

For the Ph.D., 42 hours of coursework beyond the B.S. degree are required.

College of Forest Resources

Dean/Director: Dr. George M. Hopper
Associate Dean: Dr. Ian A. Munn
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Degree Programs

Department	Degree and Major	Concentration	Thesis	Non-Thesis	Starkville	Meridian	Distance
Sustainable Bioproducts	Master of Science - Forest Products		X	X	X		
Sustainable Bioproducts	Doctor of Philosophy - Forest Resources	Forest Products			X		
Forestry	Master of Science - Forestry		X	X	X		X
Forestry	Doctor of Philosophy - Forest Resources	Forestry			X		
Wildlife, Fisheries & Aquaculture	Master of Science - Wildlife, Fisheries and Aquaculture		X		X		
Wildlife, Fisheries & Aquaculture	Doctor of Philosophy - Forest Resources	Wildlife, Fisheries and Aquaculture			X		

The College of Forest Resources (CFR) is the only college of its kind in the state providing learning and research opportunities in forestry, sustainable bioproducts, 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, fisheries and aquaculture; and sustainable bioproducts. A Master of Science degree in forestry offered through distance learning allows students from across the globe an opportunity to advance their knowledge.

Forestry

Department Head and Graduate Coordinator: Dr. Andrew W. Ezell
105A Thompson Hall
Box 9681
Mississippi State, MS 39762-9681
Telephone: 662-325-2949
E-mail: a.w.ezell@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 and Distance Campus) 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
- forest hydrology and soils
- forest ecology
- forest ecophysiology
- ecohydrology
- silviculture
- forest biometrics
- spatial technologies in natural resource management
- forest harvesting and operations
- urban and community forestry
- forest recreation
- wildlife and other natural resource economics.

Graduate teaching and research assistantships are available to qualified students.

Admission

M.S. in the Department of Forestry

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 (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.

Ph.D. in the Department of Forestry

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.

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 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 place on probationary status in the following semester and will be allowed 9 credit hours of graduate coursework to bring his/her cumulative GPA back to 3.00 regardless of the number of semesters (providing that the student attains a minimum GPA of 3.00 in all semesters during the probationary period). If this is not accomplished, the student will be dismissed from the graduate program. A student admitted on provisional status will not be allowed a probationary semester but will be dismissed if the GPA falls below 3.00.

A student receiving any grade of D or F in any course taken after admission to the graduate program will be placed on academic probation and will be required to maintain satisfactory academic performance in all subsequent semesters of his/her graduate program or will be dismissed from the graduate program and lose eligibility for readmission. A student receiving a grade of U will have one semester to bring his/her performance back up to satisfactory or will be dismissed from the graduate program and lose eligibility for readmission.

Prerequisite and Core Courses

There are no prerequisite or core graduate-level courses required of all graduate students in the Department of Forestry. Each area of emphasis, and each student's research or professional paper assignment, will influence what courses are required.

Master of Science in Forestry - Thesis

Graded graduate-level forestry courses		12
Graded 8000-level coursework		12
FO 8000	Thesis Research/ Thesis in Forestry	6
Total Hours		**30**

Requirements including passing a comprehensive oral examination on coursework taken, passing a final comprehensive defense of the thesis, completing all required changes to the thesis, securing final approval of the thesis, and formally applying for graduation before the Graduate Academic Calendar deadline.

If a minor is chosen in another field, at least 9 hours in the minor area must be taken, and a committee member from the minor area is required (refer to individual departmental requirements for minors). In conjunction with the student, the student's graduate committee will determine what courses are best suited for the program of study.

Master of Science in Forestry - Non-Thesis

Graded graduate-level Forestry courses		12
Graded 8000-level coursework		15
FO 8293	Professional Paper	3
Total Hours		**30**

A comprehensive oral examination will be administered on coursework taken and the professional paper. Other requirements include passing a final comprehensive defense of the paper, completing all required changes, securing final approval of the professional paper, and formally applying for graduation before the Graduate Academic Calendar deadline.

If a minor is chosen in another field, at least 9 hours in the minor area must be taken, and a committee member from the minor area is required (refer to individual departmental requirements for minors). In conjunction with the student, the student's graduate committee will determine what courses are best suited for the program of study.

Doctor of Philosophy in Forestry

Graduate-level coursework (beyond the Bachelor's degree) including 12 credit hours of coursework in the area of emphasis (preferably Forestry)		24
FO 9000	Dissertation Research/Dissertation in Forestry	20
Additional graduate-level courses and/or dissertation/research credit hours		10
Total Hours		**54**

A doctoral student's graduate committee will determine the number of course hours required for the Ph.D. degree based on the student's academic background and courses currently available at MSU. This must include a minimum of 24 graded coursework hours beyond the Bachelor's degree, the MSU requirement of at least 20 hours of FO 9000 Research/Dissertation credit, and any requirement of full-time enrollment for an assistantship. Other requirements include preliminary and/or comprehensive examinations, a final oral examination, and a dissertation.

If a minor is chosen, at least 12 hours in the minor area must be taken, and a committee member from the minor area is required.

Completion of the Ph.D. program requires passing all courses on 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 Graduate Academic Calendar.

Sustainable Bioproducts

Department Head: Dr. Rubin Shmulsky
Graduate Coordinator: Dr. Hamid Borazjani
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The Sustainable Bioproducts 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 Sustainable Bioproducts leads to the following degrees

- Master of Science in Forest Products, thesis option
- Master of Science in Forest Products, non-thesis option
- Doctor of Philosophy in Forest Resources with a concentration in Forest Products

Major areas of study include composite wood products, environmental biotechnology, wood preservation, business and production systems, wood chemistry, and furniture. 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.

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 (79 iBT) or IELTS score of 6.5 or better in order to be considered. Interviews, certifications, etc. are not applicable.

Provisional Admission

A student who has not fully met the GPA or other requirements stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. 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 **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; 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 Performance

The Department of Sustainable Bioproducts will accept a C grade; however, the student's overall GPA must be 3.00 or above.

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.

Master of Science in Forest Products - Thesis

Graduate-level coursework	12
8000-level coursework	12

FP 8000	Thesis Research/Thesis in Forest Products	6
Total Hours		**30**

A comprehensive examination is required. The M.S. student is encouraged to present one professional paper to a referred journal.

Master of Science in Forest Products - Non-Thesis

Graduate-level coursework		15
8000-level coursework		12
FP 7000	Directed Individual Study in Forest Products	3
Total Hours		**30**

A comprehensive examination is required.

Doctor of Philosophy in Forest Resources with a Concentration in Forest Products

The Ph.D. program generally requires three academic years beyond the bachelor's degree as a full-time student. The total number of course credit hours will vary based on the specific doctoral program, the student's needs, and the student's academic history. A written preliminary examination, an oral examination, and a dissertation are required. 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. 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).

Wildlife, Fisheries, and Aquaculture

Department Head and Graduate Coordinator: Dr. Andrew J. Kouba
Thompson Hall 109
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Mississippi State, MS 39762-9690
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The Wildlife, Fisheries and Aquaculture Department offers graduate education leading to the Master of Science in Wildlife, Fisheries and Aquaculture with emphases in wildlife ecology, fisheries ecology, and aquaculture.

A Ph.D. degree is offered in Forest Resources with a concentration in Wildlife, Fisheries and Aquaculture. A limited number of graduate research assistantships and fellowships are available. For additional information write to the Department Head (http://catalog.msstate.edu/graduate/colleges-degree-programs/forest-resources/wildlife-fisheries-aquaculture/#department-head).

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. It is strongly encouraged for the applicant to personally contact a professor within the department to discuss potential research opportunities. 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 minimum 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 Graduate Program 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 reviewed by the departmental Graduate Program Committee and then approved by the department head.

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.

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 (with graduate committee participant status) 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

at the departmental level should be sought in the rare case where continuous student committee involvement is expected due to the nature of the relationship of the candidate and/or his/her agency with the department.

If the student has a minor field outside the department, at least one member of the graduate committee must be from the minor area of study, and that member will be the student's minor professor. A Ph.D. student's committee will include the major professor (or co-major professors) as chairperson(s), who must be a full member(s) (Level 1) of the graduate faculty and from the major field, a minor professor (if a minor is being pursued by the student), and at least three other members, two of whom are from the student's major field of interest. If, during the course of a student's tenure, his/her research direction changes, it may be necessary to change the members of the graduate committee or the student's advisor. Such changes must be submitted on a change of committee request form.

The graduate committee and the master's student will meet during the student's first semester of work to prepare the program of study. This is followed by a mandatory seminar regarding the proposed research plan. The graduate committee and the Ph.D. student will meet during the student's second semester of work after he/she has taken any needed statistics courses to prepare the program of study. The student must complete this form with the help of his/her major professor and concurrence of his/her graduate committee. A doctoral student's program of study is required in the Office of the Graduate School when the preliminary/comprehensive examination is scheduled. 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.

Master of Science in Wildlife, Fisheries and Aquaculture

8000-level coursework		12
Graduate-level coursework		9
Graduate-level statistics course		3
WFA 8000	Thesis Research/ Thesis in Wildlife, Fisheries and Aquaculture	6
Total Hours		**30**

A research proposal seminar, thesis defense and comprehensive oral examination are required.

Doctor of Philosophy in Wildlife, Fisheries and Aquaculture

The Ph.D. student is required to have 20 hours of WFA 9000 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. 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.

College of Veterinary Medicine

Dean: Dr. Kent Hoblet
Associate Dean for Research and Graduate Studies: Dr. Mark L. Lawrence
Wise Center
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Website: http://www.cvm.msstate.edu

The College of Veterinary Medicine (CVM) at Mississippi State University provides the following graduate programs.

Master of Science in Veterinary Medical Sciences (VMS) with the following concentrations:

- Population Medicine Non-Thesis (PMNT)
- Veterinary Medical Research (VMRC)
- Computational Biology (VCBC)
- Infectious Diseases (VIDC)
- Toxicology (TOXI)

Doctor of Philosophy in Veterinary Medical Science (VMS) with the following concentrations:

- Veterinary Medical Research (VMRC)
- Computational Biology (VCBC)
- Infectious Diseases IVIDC)

Doctor of Philosophy in Environmental Toxicology (ENVT)

These graduate programs provide advanced educational opportunities for students in a broad range of biomedical and veterinary sciences. A non-thesis master's option in VMS is also offered with emphasis in food animal production medicine, i.e. dairy, beef, swine, poultry, and aquaculture. The goal of the VMS and ENVT programs is to provide training for the next generation of scientists and educators who will be leaders in biomedical and veterinary

research and education. Faculty in CVM's **Department of Basic Sciences**, **Department of Clinical Sciences**, and **Department of Pathobiology & Population Medicine** lead each student's graduate education. Involvement in ongoing research projects conducted by the faculty is an important part of each degree program. Students in the VMS program specialize in disciplines such as applied clinical research, biocomputing, epidemiology, health disparities, infectious diseases, toxicology, and food safety.

Degree Programs

Department	Degree and Major	Concentration	Thesis	Non-Thesis	Starkville	Meridian	Distance
College of Veterinary Medicine	Master of Science - Veterinary Medical Science	Computational Biology	X		X		
College of Veterinary Medicine	Master of Science - Veterinary Medical Science	Infectious Diseases	X		X		
College of Veterinary Medicine	Master of Science - Veterinary Medical Science	Population Medicine		X	X		
College of Veterinary Medicine	Master of Science - Veterinary Medical Science	Toxicology	X		X		
College of Veterinary Medicine	Master of Science - Veterinary Medical Science	Veterinary Medical Research	X		X		
College of Veterinary Medicine	Doctor of Philosophy - Environmental Toxicology				X		
College of Veterinary Medicine	Doctor of Philosophy - Veterinary Medical Science	Computational Biology			X		
College of Veterinary Medicine	Doctor of Philosophy - Veterinary Medical Science	Infectious Diseases			X		
College of Veterinary Medicine	Doctor of Philosophy - Veterinary Medical Science	Veterinary Medical Research			X		

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. through the dual-degree program. Information concerning the D.V.M. dual-degree programs can be found at the **Combined D.V.M.-Graduate Degree Programs** site. (http://www.cvm.msstate.edu/academics/dvm_graduate_programs.html) The following admission guidelines/restrictions must be followed for admission to the dual degree program.

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

Environmental Toxicology

Graduate Coordinator: Dr. Russell Carr
R2000 Wise Center
Box 6100
Mississippi State, MS 39762-6100
Telephone: 662-325-1417
E-mail: tia.perkins@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 (79 iBT) or IELTS score of 6.5 for international students where English is not the primary language, and if a Graduate Record Examination score is available it will be considered.

Provisional Admission

In special circumstances a student who does not meet admission criteria may be admitted provisionally if approved by the Graduate Program Advisory Committee. See Provisional Admission under Admission In this publication for provisional requirements.

Academic Performance

If a student does not show satisfactory progress toward meeting academic, research, and/or dissertation 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 graduate degree program in the College of Veterinary Medicine. Preliminary exams and the proposal are to be completed and approved/submitted by the end of year three in the program; either one can be completed first. Both must be completed for admission to candidacy. Students must follow all guidelines outlined in the *Catalog of the Graduate School*.

Doctor of Philosophy in Environmental Toxicology (for students with a master's degree)

CVM 9000	Dissertation Research/ Dissertation in Veterinary Medicine	20
Three seminar courses (CVM 8011 or equivalent) [1]		3
Two statistics courses [1,2]		6
Graduate-level courses (at least 12 hours of all coursework must be at 8000-level) or additional CVM 9000 credits [3]		31
Total Hours		**60**

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 *Catalog 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.
3. Coursework taken at the M.S. level will be counted toward the 24 hours required if approved by the Ph.D. graduate committee.

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 prior to the oral final examination. The student must adhere to the University and College regulations regarding his/her graduate program.

Doctor of Philosophy in Environmental Toxicology (for students with a bachelor's but no master's degree)

CVM 9000	Dissertation Research/ Dissertation in Veterinary Medicine	20
Three seminar courses (CVM 8011 or equivalent) [1]		3
Two statistics courses [2]		6
Graduate-level coursework		15
Additional graduate-level coursework and/or CVM 9000 credits [3]		46
Total Hours		**90**

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 *Catalog 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.
3. Students must have 24 hours of graduate coursework to graduate with a Ph.D. in Environmental Toxicology.

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 prior to the oral final examination. The student must adhere to the University and College regulations regarding his/her graduate program.

Veterinary Medical Science

Graduate Coordinator, Pathobiology and Population Medicine: Dr. R. Hartford Bailey
Graduate Coordinator, Basic Sciences: Dr. Larry Hanson
Graduate Coordinator, Clinical Sciences: Dr. Andrew Mackin
R 2002 Wise Center
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Mississippi State, MS 39762-6100
Telephone: 662-325-1417
E-mail: tia.perkins@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 from countries whose primarily language is not English, and if a Graduate Record Examination (GRE) score is available it will be considered.

Provisional Admission

In special circumstances a student who does not meet admission criteria may be admitted provisionally if approved by the Graduate Program Advisory Committee. See Provisional Admission under Admission In this publication for provisional requirements.

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. Students must follow all guidelines outlined in the Graduate Catalog.

Master of Science in Veterinary Medical Science (VMS) - Population Medicine Non-Thesis Concentration (PMNT)

Graduate-level coursework credits (at least 15 hours of all coursework credits must be 8000-level or above) [1]		31
Statistics course [1,2]		3
CVM 8011	Seminar [1]	1
or CVM 8091	Current Topics in Production Animal Medicine	
Total Hours		**35**

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.

A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

Master of Science in Veterinary Medical Science (VMS) - Veterinary Medical Research Concentration (VMRC)

Graduate-level coursework (at least 12 hours of all coursework credits must be 8000-level or above) [1]		20
One statistics course [1, 2]		3
One seminar course (CVM 8011 or equivalent) [1]		1
CVM 8000	Thesis Research/ Thesis in Veterinary Medicine	6
Total Hours		**30**

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. 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.

A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

Master of Science in Veterinary Medical Science (VMS) - Computational Biology Concentration (VCBC)

Graduate-level courses (at least 12 hours of all coursework credits must be 8000-level or higher) [1]		11
BCH 8653	Genomes and Genomics	3
or PSS 8653	Genomes and Genomics	
CSE 6613	Bio-computing	3
CSE 6623	Computational Biology	3
One statistics course [1, 2]		3
One seminar course (CVM 8011 or equivalent) [1]		1
CVM 8000	Thesis Research/ Thesis in Veterinary Medicine	6
Total Hours		**30**

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. 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.

A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

Master of Science in Veterinary Medical Science (VMS) - Infectious Diseases Concentration (VIDC)

CVM 8303	Advanced Immunology	3
BCH 6013	Principles of Biochemistry	3
or BCH 6713	Molecular Biology	
One statistics course [1, 2]		3
One seminar course (CVM 8011 or equivalent) [1]		1
Graduate-level courses (at least 12 hours of all coursework must be at 8000 level or higher) [1]		14
CVM 8000	Thesis Research/ Thesis in Veterinary Medicine	6
Total Hours		**30**

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. 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.

A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

Master of Science in Veterinary Medical Science (VMS) - Toxicology Concentration (TOXI)

CVM 8543	Mechanisms of Toxic Action	3
or CVM 8513	Applied Veterinary Epidemiology	
or CVM 8533	Organ Systems Toxicology II	
CVM 6513	Environmental Toxicology	3
One statistics course [1, 2]		3
On seminar course (CVM 8011, 8091, or equivalent) [1]		1
Graduate-level courses (at least 12 credits of all coursework must be 8000-level or higher)		14
CVM 8000	Thesis Research/ Thesis in Veterinary Medicine	6
Total Hours		**30**

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. 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.

A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

Doctor of Philosophy in Veterinary Medical Science (VMS) - Veterinary Medical Research Concentration (VMRC) (for students with a master's degree)

Two statistics courses [1,2]		6
Three seminar courses (CVM 8011 or equivalent)		3
Graduate-level courses (at least 12 hours of all coursework at 8000-level or higher) or additional CVM 9000 credits [1]		31
CVM 9000	Dissertation Research/ Dissertation in Veterinary Medicine	20
Total Hours		**60**

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.

Doctor of Philosophy in Veterinary Medical Science (VMS) - Veterinary Medical Research Concentration (VMRC) (for students with a bachelor's but no master's degree)

Two statistics courses [1, 2]		6
Three seminar courses (CVM 8011 or equivalent) [1]		3
Graduate-level courses (at least 12 hours of all coursework at 8000 level or higher)		15
CVM 9000	Dissertation Research/ Dissertation in Veterinary Medicine	20
Additional graduate-level coursework and/or CVM 9000 credits [3]		46
Total Hours		**90**

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. 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.

3 Students must have 24 hours of graduate coursework to graduate with a Ph.D. in VMS.

Doctor of Philosophy in Veterinary Medical Science (VMS) - Computational Biology Concentration (VCBC) (for students with a master's degree)

BCH 8653	Genomes and Genomics	3
or PSS 8653	Genomes and Genomics	
CSE 6613	Bio-computing	3
CSE 6623	Computational Biology	3
Three seminar courses (CVM 8011 or equivalent) [1]		3
Two graduate-level statistics courses		6
Graduate-level courses (at least 12 hours of all coursework at 8000-level) or additional CVM 9000 credits		22
CVM 9000		20
Total Hours		**60**

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. 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.

Doctor of Philosophy in Veterinary Medical Science (VMS) - Computational Biology Concentration (VCBC) (for students with a bachelor's but no master's degree)

BCH 8653	Genomes and Genomics	3
or PSS 8653	Genomes and Genomics	
CSE 6613	Bio-computing	3
CSE 6623	Computational Biology	3
Three seminar courses (CVM 8011 or equivalent) [1]		3
Two graduate-level statistics courses		6
Graduate level courses (at least 12 hours of all coursework at 8000 level or higher)		6
CVM 9000	Dissertation Research/ Dissertation in Veterinary Medicine	20
Graduate-level coursework and/or additional CVM 9000 credits [3]		46
Total Hours		**90**

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. 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.
3. Students must have 24 hours of graduate coursework to graduate with a Ph.D. in VMS.

Doctor of Philosophy in Veterinary Medical Science (VMS) - Infectious Diseases Concentration (VIDC) (for students with a bachelor's but no master's degree)

CVM 8303	Advanced Immunology	3
BCH 6013	Principles of Biochemistry	3
or BCH 6713	Molecular Biology	
Two statistics courses [1, 2]		6
Three seminar courses (CVM 8011 or equivalent)		6
Graduate-level courses (at least 12 hours of all coursework at 8000-level or higher) [3]		22
CVM 9000	Dissertation Research/ Dissertation in Veterinary Medicine	20
Total Hours		**60**

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. 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.
3. Students must have 24 hours of graduate coursework to graduate with a Ph.D. in VMS.

Doctor of Philosophy in Veterinary Medical Science (VMS) - Infectious Diseases Concentration (VIDC)

CVM 8303	Advanced Immunology	3
BCH 6013	Principles of Biochemistry	3
or BCH 6713	Molecular Biology	
Two statistics courses [1, 2]		
Three seminar courses (CVM 8011 or equivalent) [1]		3
Graduate-level courses (at least 12 hours of all coursework must be at 8000 level or higher)		15
CVM 9000	Dissertation Research/ Dissertation in Veterinary Medicine	20
Additional graduate-level coursework and/or CVM 9000 credits		46
Total Hours		**90**

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. 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.

Degrees and Majors Offered

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.

Degree	Major	Concentration	Thesis	Non-Thesis	Starkville	Meridian	Distance
No Degree	Unclassified				X	X	X
Master of Agribusiness Management	Agribusiness Management			X	X		
Master of Arts	Applied Anthropology		X		X		
Master of Arts	Economics		X	X	X		
Master of Arts	English		X	X	X		
Master of Arts	Foreign Language		X	X	X		
Master of Arts	History		X	X	X		
Master of Arts	Political Science		X	X	X		
Master of Arts in Teaching	Community College Education			X	X	X	X
Master of Arts in Teaching-Middle	Middle Level Alternate Route			X			X
Master of Arts in Teaching-Secondary	Secondary Teacher Alternate Route			X		X	X
Master of Arts in Teaching - Special	Special Education Alternate Route			X			X
Master of Business Administration	Business Administration			X	X	X	X
Master of Business Administration	Business Administration	Accounting		X		X	
Master of Business Administration	Project Management			X	X		X
Master of Engineering	Engineering			X			X
Master of Landscape Architecture	Landscape Architecture		X	X	X		
Master of Professional Accountancy	Accounting			X	X		
Master of Professional Accountancy	Accounting	Systems		X	X		
Master of Public Policy and Administration	Public Policy and Administration			X	X		
Master of Science	Aerospace Engineering		X	X	X		X
Master of Science	Agricultural and Extension Education		X	X	X		

Master of Science	Agricultural and Extension Education	Leadership	X	X	X			
Master of Science	Agricultural and Extension Education	Teaching	X	X	X			
Master of Science	Agricultural Life Sciences	Animal Physiology	X	X	X			
Master of Science	Agricultural Life Sciences	Biochemistry	X	X	X			
Master of Science	Agricultural Life Sciences	Entomology	X		X			
Master of Science	Agriculture	Agricultural Economics	X	X	X			
Master of Science	Agriculture	Agronomy	X	X	X			
Master of Science	Agriculture	Animal Nutrition	X		X			
Master of Science	Agricultural Life Sciences	Genetics	X	X	X			
Master of Science	Agriculture	Animal Science	X	X	X			
Master of Science	Agriculture	Horticulture	X		X			
Master of Science	Agricultural Life Sciences	Plant Pathology	X		X			
Master of Science	Agriculture	Poultry Science	X	X	X			
Master of Science	Agriculture	Weed Science	X		X			
Master of Science	Biological Sciences		X		X			
Master of Science	Agriculture	Engineering Technology	X	X	X			
Master of Science	Biological Engineering		X		X			
Master of Science	Biomedical Engineering		X		X			
Master of Science	Chemical Engineering		X	X	X			
Master of Science	Chemistry		X		X			
Master of Science	Civil Engineering		X	X	X		X	
Master of Science	Computational Engineering		X	X	X			
Master of Science	Computer Science		X	X	X		X	
Master of Science	Counselor Education	Clinical Mental Health		X	X	X		
Master of Science	Counselor Education	College Counseling		X	X	X		
Master of Science	Counselor Education	Rehabilitation Counseling		X	X	X		
Master of Science	Counselor Education	School Counseling		X	X	X		
Master of Science	Counselor Education	Student Affairs		X	X	X		
Master of Science	Educational Psychology	General Educational Psychology		X	X			
Master of Science	Educational Psychology	Psychometry		X	X			

Master of Science	Electrical and Computer Engineering		X		X	X		X
Master of Science	Elementary Education	Early Childhood Education			X	X	X	
Master of Science	Elementary Education	General Education			X	X	X	
Master of Science	Elementary Education	Middle Level Education			X	X	X	
Master of Science	Food Science, Nutrition, and Health Promotion	Food Science and Technology	X			X		
Master of Science	Food Science, Nutrition, and Health Promotion	Health Promotion	X		X	X		X
Master of Science	Food Science, Nutrition, and Health Promotion	Nutrition	X			X		
Master of Science	Forest Products		X		X	X		
Master of Science	Forestry		X		X	X		X
Master of Science	General Biology				X			X
Master of Science	Geoscience	Applied Meteorology			X			X
Master of Science	Geoscience	Broadcast Meteorology			X	X		
Master of Science	Geoscience	Environmental Geoscience	X			X		
Master of Science	Geoscience	Geography	X			X		
Master of Science	Geoscience	Geology	X		X	X		
Master of Science	Geoscience	Geospatial Sciences	X		X	X		
Master of Science	Geoscience	Professional Meteorology/ Climatology	X			X		
Master of Science	Geoscience	Teachers in Geosciences			X			X
Master of Science	Human Development and Family Studies		X		X	X		
Master of Science	Industrial Engineering	Human Factors & Ergonomics	X		X	X		X
Master of Science	Industrial Engineering	Industrial Systems	X		X	X		X
Master of Science	Industrial Engineering	Management Systems	X		X	X		X
Master of Science	Industrial Engineering	Manufacturing Systems	X		X	X		X
Master of Science	Industrial Engineering	Operations Research	X		X	X		X
Master of Science	Kinesiology	Exercise Physiology	X		X	X		
Master of Science	Kinesiology	Sport Pedagogy	X		X	X		
Master of Science	Kinesiology	Sport Administration	X		X	X		
Master of Science	Mathematics		X		X	X		

Master of Science	Mechanical Engineering		X	X	X		X
Master of Science	Physics		X	X	X		
Master of Science	School Administration			X	X	X	
Master of Science	Psychology		X		X		
Master of Science	Secondary Education			X	X	X	X
Master of Science	Sociology		X	X	X		
Master of Science	Special Education			X	X		
Master of Science	Technology			X	X		
Master of Science	Statistics		X	X	X		
Master of Science	Veterinary Medical Sciences	Computational Biology	X		X		
Master of Science	Veterinary Medical Sciences	Infectious Diseases	X		X		
Master of Science	Veterinary Medical Science	Population Medicine Non-Thesis		X	X		
Master of Science	Veterinary Medical Sciences	Toxicology	X		X		
Master of Science	Veterinary Medical Sciences	Veterinary Medical Research	X		X		
Master of Science	Wildlife, Fisheries and Aquaculture		X		X		
Master of Science	Workforce Education Leadership			X			X
Master of Science in Information Systems	Information Systems			X	X		X
Master of Science in Instructional Technology	Instructional Technology	Distance Education	X	X	X		
Master of Science in Instructional Technology	Instructional Technology	Instructional Design	X	X	X		
Master of Science in Instructional Technology	Instructional Technology	Multimedia	X	X	X		
Master of Taxation	Taxation			X	X		
Educational Specialist	Education	Counselor Education	X	X	X	X	
Educational Specialist	Education	Education-Technology	X	X	X		
Educational Specialist	Education	Elementary Education	X	X	X	X	
Educational Specialist	Education	School Administration	X	X	X	X	
Educational Specialist	Education	School Psychology	X	X	X		
Educational Specialist	Education	Secondary Education	X	X	X	X	
Educational Specialist	Education	Special Education	X	X	X		

Doctor of Philosophy	Agricultural Sciences	Agricultural and Extension Education	X		
Doctor of Philosophy	Agricultural Sciences	Agronomy	X		
Doctor of Philosophy	Agricultural Sciences	Animal and Dairy Science	X		
Doctor of Philosophy	Agricultural Sciences	Animal Nutrition	X		
Doctor of Philosophy	Agricultural Sciences	Engineering Technology	X		
Doctor of Philosophy	Agricultural Sciences	Horticulture	X		
Doctor of Philosophy	Agricultural Sciences	Poultry Science	X		
Doctor of Philosophy	Agricultural Sciences	Weed Science	X		
Doctor of Philosophy	Applied Psychology	Clinical Psychology	X		
Doctor of Philosophy	Applied Psychology	Applied Cognitive Science	X		
Doctor of Philosophy	Biological Sciences		X		
Doctor of Philosophy	Biomedical Engineering		X		
Doctor of Philosophy	Business Administration	Accounting	X		
Doctor of Philosophy	Business Administration	Finance	X		
Doctor of Philosophy	Business Administration	Information Systems	X		
Doctor of Philosophy	Business Administration	Management	X		
Doctor of Philosophy	Business Administration	Marketing	X		
Doctor of Philosophy	Chemistry		X		
Doctor of Philosophy	College/ Postsecondary Student Counseling and Personnel Services		X		
Doctor of Philosophy	Community College Leadership				X
Doctor of Philosophy	Computational Engineering		X		
Doctor of Philosophy	Computer Science		X		
Doctor of Philosophy	Counselor Education/Student Counseling and Guidance Services		X		

Doctor of Philosophy	Curriculum and Instruction	Curriculum & Instruction General Education	X		
Doctor of Philosophy	Curriculum and Instruction	Early Childhood Education	X		
Doctor of Philosophy	Curriculum and Instruction	Elementary Education	X		
Doctor of Philosophy	Curriculum and Instruction	Reading Education	X		
Doctor of Philosophy	Curriculum and Instruction	Secondary Education	X		
Doctor of Philosophy	Curriculum and Instruction	Special Education	X		
Doctor of Philosophy	Earth and Atmospheric Sciences		X		
Doctor of Philosophy	Educational Psychology	School Psychology	X		
Doctor of Philosophy	Electrical & Computer Engineering		X	X	
Doctor of Philosophy	Elementary, Middle and Secondary Education Administration		X		
Doctor of Philosophy	Engineering	Aerospace Engineering	X	X	
Doctor of Philosophy	Educational Psychology	General Educational Psychology	X		
Doctor of Philosophy	Engineering	Applied Physics	X		
Doctor of Philosophy	Engineering	Biological Engineering	X		
Doctor of Philosophy	Engineeering	Chemical Engineering	X		
Doctor of Philosophy	Engineering	Civil Engineering	X	X	
Doctor of Philosophy	Engineering	Mechanical Engineering	X	X	
Doctor of Philosophy	Environmental Toxicology		X		
Doctor of Philosophy	Food Science, Nutrition and Health Promotion	Food Science and Technology	X		
Doctor of Philosophy	Food Science, Nutrition and Health Promotion	Nutrition	X		
Doctor of Philosophy	Forest Resources	Forest Products	X		
Doctor of Philosophy	Forest Resources	Forestry	X		
Doctor of Philosophy	Forest Resources	Wildlife, Fisheries and Aquaculture	X		

Doctor of Philosophy	Graduate Applied Economics		X	
Doctor of Philosophy	History		X	
Doctor of Philosophy	Human Development and Family Studies		X	
Doctor of Philosophy	Industrial and Systems Engineering		X	X
Doctor of Philosophy	Instructional Systems & Workforce Development		X	
Doctor of Philosophy	Kinesiology	Exercise Science	X	
Doctor of Philosophy	Kinesiology	Sport Studies	X	
Doctor of Philosophy	Life Sciences	Animal Physiology	X	
Doctor of Philosophy	Life Sciences	Biochemistry	X	
Doctor of Philosophy	Life Sciences	Entomology	X	
Doctor of Philosophy	Life Sciences	Genetics	X	
Doctor of Philosophy	Life Sciences	Plant Pathology	X	
Doctor of Philosophy	Mathematical Sciences		X	
Doctor of Philosophy	Molecular Biology		X	
Doctor of Philosophy	Physics		X	
Doctor of Philosophy	Public Policy and Administration		X	
Doctor of Philosophy	Sociology		X	
Doctor of Philosophy	Veterinary Medical Science	Computational Biology	X	
Doctor of Philosophy	Veterinary Medical Science	Infectious Disease	X	
Doctor of Philosophy	Veterinary Medical Science	Veterinary Medical Research	X	

Distance Education

Mississippi State University offers a variety of graduate courses and academic programs for distance students. For a list of academic programs offered via distance, please refer to the Section titled Degrees and Majors Offered (http://catalog.msstate.edu/graduate/degrees-majors-offered), where a table is provided listing all graduate programs and indicates the campus (Starkville, Meridian, or Distance) at which the program is offered.

The University's Center for Distance E (http://distance.msstate.edu)ducation (http://www.distance.msstate.edu) is an organizational unit dedicated to fostering the success of distance students. The website for the Center for Distance (http://distance.msstate.edu) Education (http://www.distance.msstate.edu) provides detailed information for prospective and current distance students, as well as services that are unique to the needs of distance students, such as online orientations, assistance with technical needs, online tutoring, and information about online exam proctoring.

Students enrolled in graduate programs offered via distance education and requiring a thesis or dissertation must meet established research requirements as stated in the Mississippi State University *Graduate School Catalog*. 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. Details can be found in the Distance Certification subsection (http://catalog.msstate.edu/graduate/academic-policies/academic-requirements/#distancecertificationtext) of the Academic Requirements section of this catalog.

Graduate Academic Calendar

Fall Semester 2015

Date	Description
July 1	Last day for domestic applicants to apply for Fall admission to a degree program on Starkville or Meridian campus
July 31	Last day for initial submission of thesis/dissertation to Library for DECEMBER graduation and no Fall enrollment required
August 1	Last day for domestic and international applicants to apply for Distance degree program for Fall semester
August 1-September 30	TAGGS online application for November 1-February 28 travel period
August 7	Last day to submit Library-approved thesis/dissertation to Library for DECEMBER graduation and no Fall enrollment required
August 12-14	Graduate Teaching Assistant Workshop and Classroom Certification
August 16	Deadline for domestic applicants to apply Unclassified for Starkville, Meridian, or Distance for Fall semester
August 16	Last day for all applicants to apply Distance Unclassified for Fall
August 17	Classes begin
August 21	Last day to drop a class without a grade
August 24	Last day to register or to add a course
August 24-October 2	Apply via MyState for December graduation; $50 fee
September 7	Holiday
September 28	Last day to drop a course with a W grade
October 1	Deadline for international applicants to apply to degree programs or Unclassifed on Starkville or Meridian campus for Spring semester
October 2	Last day to apply for December graduation; $50 fee
October 3-30	Late application via MyState for December graduation; $50 fee plus $50 late fee
October 5	Midpoint of semester
October 5-6 (dates subject to change)	Fall Break
October 19-30	Faculty advising for preregistration
October 23	Last day for thesis/dissertation defense or non-thesis comprehensive examination for December graduation
October 30	Last day for department to submit signed examination/defense results to the Graduate School for December graduation
October 30	Last day for initial submission of thesis/dissertation to the Library for December graduation
October 30	Last day to apply via MyState for December graduation; $50 fee
October 31-December 1	Very late online application for December graduation; $50 fee plus $200 late fee
November 1	Last day for doctoral preliminary/comprehensive examination for May graduation
November 1	Last day for domestic applicants to apply for degree program on Starkville or Meridian campus for Spring semester
November 2-13	Spring pre-registration
November 12	Last day to withdraw from the University (drop entire semester schedule)
November 17-19	3MT Competition
November 20	Last day to submit Library-approved thesis/dissertation to Library for December graduation
November 24	Last day for initial submission of thesis/dissertation to Library for MAY graduation and no Spring semester enrollment required
November 25, 26, 27	Holiday
November 30	Class resume
December 1-February 15	TAGGS online application for March 1-June 30 travel period
December 1	Deadline for domestic and international applicants to apply for Distance degree program for Spring semester
December 1	Last day for very late application via MyState for December graduation; $50 fee plus $200 late fee
December 1	Classes end
December 1	Deadline for graduate students receiving incomplete grade in previous semester to submit required coursework
December 2, 3	Reading days (No mandatory class assignments, requirements, meetings)
December 4	Last day to submit Library-approved thesis/dissertation to Library for MAY graduation and no Spring semester enrollment required
December 4, 7-10	Final examinations
December 5, 11, 12	Make-up days (if needed)
December 11	Last day for December 2015 degree applicants to pay account balance
December 11 (11:00 AM)	MSU-Meridian Commencement, MSU Riley Center
December 11 (7:00 PM)	Starkville Campus Commencement ceremony for all colleges
December 14	Final grades due 12:00 noon
December 22-January 1	Holiday

Spring Semester 2016

Date	Description
January 6-8	General Teaching Assistant Workshop
January 10	Deadline for all applicants to apply Distance Unclassified for Spring semester
January 10	Deadline for domestic applicants to apply Unclassified for Starkville or Meridian campus--Spring semester
January 11	Classes begin
January 15	Last day to drop a class without a grade

January 18	Holiday
January 18-February 26	Apply via MyState for May graduation; $50 fee
January 19	Last day to register or add a class
February 1	Last day for doctoral preliminary/comprehensive examination for August graduation
February 22	Last day to drop a course with a W grade
February 26	Last day to apply via MyState for May graduation; $50 fee
February 27-March 31	Late application via MyState for May graduation; $50 fee plus $50 late fee
March 1	Deadline for international applicants to apply for degree programs or Unclassified on Starkville or Meridian campus for Summer semester
March 1	Mid-point of semester
March 11	Last day for thesis/dissertation defense and non-thesis comprehensive exam and May graduation
March 14-18 (dates subject to change)	Spring Break
March 17	Classes resume
March 21-April 1	Faculty advising for preregistration
March 24	Last day for initial submission of thesis/dissertation to the Library for May graduation
March 24	Last day for department to submit signed examination results to the Graduate School for May graduation
March 25	Holiday
March 31	Last day to apply via MyState for May graduation; $50 fee + $50 late fee
April 1-27	Very late application via MyState for May graduation; $50 fee plus $200 late fee
April 1-June 1	TAGGS online application for July 1-October 31 travel period
April 4-15	Preregistration for Summer and Fall semesters
April 13	Last day to withdraw from the University (drop entire semester schedule)
April 15	Last day for submission of Library-approved thesis/dissertation to the Library for May graduation
April 27	Last day to apply via MyState for May graduation; $50 fee + $200 late fee
April 27	Classes end
April 28	Reading day
April 29-May 5	Final examinations
April 30 and May 6	Make-up days if needed
May 1	Deadline for domestic applicants to apply for degree programs on Starkville or Meridian campus for Summer semester
May 1	Deadline for international applicants to apply for degree programs or Unclassified on Starkville or Meridian campus for Fall semester
TBA	Last day for initial submission of thesis/dissertation to Library for AUGUST graduation and no Summer enrollment required
TBA	Last day for final submission of thesis/dissertation to Library for AUGUST graduation and no summer enrollment required
May 6	Last day for May 2015 degree applicants to pay account balance
May 6 11:00 AM	MSU-Meridian Commencement, MSU Riley Center
May 6, 7:00 P.M.	Commencement - Bagley College of Engineering; Swalm School of Chemical Engineering; College of Veterinary Medicine; College of Agriculture & Life Sciences; School of Human Sciences; College of Forest Resources; College of Education
May 7, 10:00 A.M.	Commencement - College of Arts & Sciences; College of Architecture, Art & Design; School of Architecture; College of Business; Adkerson School of Accountancy
May 9	Final grades due 12:00 noon
May 15	Deadline for all applicants to apply for Distance degree programs for Summer semester

Summer Semester 2016

The Summer Semester 2016 calendar will be posted on the Graduate School website at a later date. (http://www.grad.msstate.edu/academic_calendar)

Graduate Assistantships

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

Types of Assistantship Appointments

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

Graduate Research Assistantship (GRA)

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

Graduate Service Assistantship (GSA)

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

Graduate Teaching Assistantship (GTA)

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

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

Appointment Process

Minimum University Eligibility Requirements

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

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

Application for Graduate Assistantship

Application for an assistantship must be submitted to the college, department, school, or support unit. The department/unit may provide its own application form or use the Application for Graduate Assistantship 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

Graduate Teaching Assistants and Graduate Service Assistants receive a tuition exemption of approximately 71% of the assessed tuition. Graduate Research Assistants receive a tuition exemption of 100% of the assessed tuition.

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

Distance Education Courses

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

Termination of Assistantship

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

Stipends

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

Health Insurance Supplement

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

Responsibilities for Maintaining a Graduate Assistantship

Required Course Load

Fall and Spring Semesters

Graduate assistants must be full-time students (registered in at least 9 graduate credit hours) and may not enroll in more than 13 graduate credit hours. The required full-time status must be maintained throughout the entire semester. Therefore, no course may be dropped if the resulting course load is fewer than the required 9 graduate credit hours, nor may any course in the 9-hour load consist of or be converted to audit status.

Full- and Half-Summer Awards

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

Undergraduate Courses

The full-time course load may not be composed of undergraduate courses unless the course is a program prerequisite. In such case, only one undergraduate course will be permitted as part of the full-time load (per Graduate Council, March 2001). Some international students are required by the University to take ESL 5323 and/or ESL 5313. Both are considered undergraduate courses and program prerequisites, and a graduate student is permitted to enroll in one of these courses while holding an assistantship. ESL 5323 and ESL 5313 cannot be taken concurrently.

Course Overload

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

Academic Achievement

To retain an assistantship, a student must demonstrate satisfactory progress in the academic program. Failure to do so may result in termination of the assistantship. Unsatisfactory progress may be defined as the failure to maintain a B average in graduate courses attempted after being admitted to a specific program; a grade of U, D, or F in any course; more than 6 credit hours below a B; failure of the preliminary/comprehensive examination; an unsatisfactory evaluation of a thesis or dissertation; failure of a research defense; or any other failure of a required component of one's program of study. Any, or a combination of these, may constitute the basis for the termination of a student's graduate study in a degree program. Individual programs have the right to establish their own criteria. If a student is dismissed, his/her assistantship is terminated.

Graduate Teaching Assistant Certification Program

The Graduate Teaching Assistant Certification (GTAC) workshop 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:

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

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

International Teaching Assistant (ITA) Workshop - International Students Only

The International Teaching Assistant (ITA) Workshop provides international graduate students who plan to serve as teaching assistants with the cultural education and communications skills necessary to achieve effective performance of their duties. The workshop also serves as a tool for evaluating international students' teaching. The training, evaluation, and certification of international GTAs are essential to ensure that undergraduate students receive a high quality of instruction.

Graduate Teaching Assistant (GTA) Workshop

Held semi-annually before the fall and spring semesters begin, the Graduate Teaching Assistant (GTA) Workshop 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/ITA Workshop 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 Workshop.

Failure to complete the GTA Workshop, including partial attendance or tardiness to Workshop sessions, will render a student ineligible for the Microteaching/Classroom Certification and a teaching assistantship award.

Microteaching Simulation/Classroom Certification Evaluation

Held semi-annually, immediately following the Graduate Teaching Assistant (GTA) Workshop, the Microteaching Simulation/Classroom Certification Evaluation is the tool used to determine whether a GTA is equipped with the skills needed to deliver high-quality instruction to undergraduate students at Mississippi State University. Prospective students for GTA2/GTA3 certification prepare a 10-15 minute interactive mini-lesson to present to students as part of an assigned course. The mini-lesson is delivered to a group of graduate faculty members who judge the level of skills using a rubric. Classroom certification is required of all teaching assistants whose responsibilities involve classroom or laboratory teaching of students. A student cannot participate in the Microteaching Simulation/Classroom Certification Evaluation component until all other Teaching Assistant Certification Programs requirements (GTA Workshop and ITA 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 Workshop again.

Graduate Teaching Assistant 2 (GTA2)

This level requires completion of the Microteaching Simulation/Classroom Certification Evaluation of the GTAC. The graduate assistant may have some of the same duties as GTA1. Other responsibilities include making presentations in laboratories/classrooms, conducting lectures, and leading discussion groups. These tasks involve classroom or laboratory teaching of students, but the graduate teaching assistant is not the instructor of record.

Graduate Teaching Assistant 3 (GTA3)

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

Students must satisfy all program/evaluation requirements necessary to obtain the level of certification (GTA1, GTA2, GTA3) corresponding to the duties/responsibilities of the teaching assistantship appointment. Waivers to allow classroom/laboratory teaching (GTA2/GTA3 levels) without successful completion of all applicable Graduate Teaching Assistant Certification Program component requirements WILL NOT be issued.

Graduate Council

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.

To Be Named- Chair

To Be Named- Vice Chair

Ex Officio Members

Amy Adkerson, M.S.
Associate Registrar

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

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

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

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

Julia Hodges, Ph.D.
Associate Vice President, Academic Affairs

Rebecca Long, Ph.D.
Associate Dean of the Graduate School

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

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

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

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

Lynn L. Reinschmiedt, Ph.D.
Interim Executive Director, Center for Distance Education

Elected Members

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

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

Tim Barnett, D.B.A., 2016
Professor, Management & Information Systems
College of Business

Russell Carr, Ph.D., 2016
Associate Professor, Basic Sciences
College of Veterinary Medicine

Richard Harkess, Ph.D., 2017
Professor, Plant and Soil Sciences
College of Agriculture and Life Sciences

Beth Miller, M.Ed., 2017
Professor and Director, Interior Design
College of Architecture, Art, and Design

Appointed Members

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

Ashli Brown Johnson, Ph.D., 2016
Assistant Professor, Biochemistry, Molecular Biology, Entomology, and Plant Pathology
College of Agriculture and Life Sciences

Lara Dodds, Ph.D., 2016
Associate Professor, English
College of Arts and Sciences

To Be Named, 2016

James Adams, Ph.D., 2017
Associate Professor, Instructional Systems and Workforce Development
College of Education

Steve Elder, Ph.D., 2017
Professor, Agricultural and Biological Engineering
Bagley College of Engineering

Dana Franz, Ph.D., 2017
Associate Professor, Curriculum, Instruction, and Special Education
College of Education

Christina Hillesheim, 2016

President, Graduate Student Association

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 *Catalog of the Graduate School* and on the Graduate School Website at http://www.grad.msstate.edu/faculty.

Graduate Faculty Appointment Levels

Level 1

Qualifications

An individual appointed to Level 1 Graduate Faculty must

- have an earned terminal degree (highest degree awarded in the discipline) in or related to the faculty member's area of graduate responsibility;
- be a full-time employee of Mississippi State University, holding the rank of assistant professor or assistant research professor or assistant extension professor or assistant clinical professor or higher without any qualifying designations such as "visiting" or "adjunct";
- have demonstrated and maintained noteworthy accomplishments in research and/or creative achievement, as defined in the Faculty handbook (6.1.2);
- and have demonstrated experience directing graduate research and independent study, thesis, or dissertation.

Responsibilities

An individual appointed to Level 1 Graduate Faculty may

- teach graduate-level courses in each field of specialization based upon formal advanced study or demonstrated competence through independent scholarly activity;
- serve as a member of master's non-thesis, master's thesis, specialist non-thesis, or specialist thesis committee within Department of appointment or outside Department;
- serve as a chair of master's non-thesis, master's thesis, specialist non-thesis, or specialist thesis committee within the faculty member's area of graduate responsibility;
- serve as a member of doctoral committees and doctoral dissertations within Department of appointment or outside Department;
- serve as a chair of doctoral committees and/or director of doctoral dissertations within the faculty member's area of graduate responsibility.

A Level 1 term of service is five years and is approved by the Dean of the Graduate School. The appointment is renewed at the discretion of the department head and dean of the college.

Level 2

Qualifications

An individual appointed to Level 2 Graduate Faculty must

- have an earned terminal degree (highest degree awarded in discipline) in or related to the faculty member's area of graduate responsibility;
- be a full-time employee of Mississippi State University, holding the rank of assistant professor or assistant research professor or assistant extension professor or assistant clinical professor or higher without any qualifying designations such as "visiting" or "adjunct";
- and have demonstrated and maintained a record in research and/or creative achievement, as defined in the Faculty Handbook (6.1.2).

Responsibilities

An individual appointed to Level 2 Graduate Faculty may

- teach graduate-level courses in each field of specialization based upon formal advanced study or demonstrated competence through independent scholarly activity;
- serve as a member of master's non-thesis, master's thesis, specialist non-thesis, or specialist thesis committee within Department of appointment or outside Department;
- serve as a chair of master's non-thesis, master's thesis, specialist non-thesis, or specialist thesis committee within the faculty member's area of graduate responsibility
- serve as a member of doctoral committees and doctoral dissertations within Department of appointment or outside Department
- serve as a co-chair of doctoral committees and/or director of doctoral dissertations with a co-director, who has Level 1 Graduate Faculty status, within the faculty member's area of graduate responsibility.

A Level 2 term of service is five years and is approved by the Dean of the Graduate School. The appointment is renewed at the discretion of the department head and dean of the college. A Level 2 Graduate Faculty member may apply to have his/her appointment status changed to a Level 1 Graduate Faculty status when the conditions for Level 1 status have been met. A status change from Level 2 to Level 1 requires the support of the department head and dean of the college and will be approved by the Dean of the Graduate School.

Associate

Qualifications

An individual appointed to Associate Graduate Faculty must

- have a terminal degree (highest degree awarded in the discipline) in or related to the faculty member's area of graduate responsibility

- be a full-time employee of Mississippi State University holding the rank of assistant professor or assistant research professor or assistant extension professor or assistant clinical professor and may include the qualifying designation of Visiting Faculty (as defined in AOP 13.22);
- and have a record of research and/or creative achievement as described in the Faculty Handbook (6.1.2) or the ability to conduct research.

Responsibilities

An individual appointed to Associate Level Graduate Faculty may

- teach graduate-level courses in each field of specialization for which formal advanced study or demonstrated competence is documented;
- serve as a member of master's non-thesis, master's thesis, specialist non-thesis, or specialist thesis committees within Department of appointment or outside Department;
- serve as a member of doctoral and dissertation committees within Department of appointment or outside Department.

An Associate Level term of service is five years and is approved by the Dean of the Graduate School. The appointment is renewed at the discretion of the department head and dean of the college.

Participant

Participant appointments can be granted to individuals to enable them to participate either through graduate teaching or graduate committee participation. Individuals who receive participant appointments do not fall under the criteria of Level 1, Level 2, or Associate categories.

Graduate Teaching Participant Status

An individual appointed to Graduate Teaching Participant status must

- be an instructor with a terminal degree in the discipline of graduate teaching responsibility, or
- have commensurate experience in or closely related to the discipline of graduate teaching responsibility.

Commensurate expertise must be in or related to the area of graduate responsibility, such as professional certification, licensure, or record of professional practice. Applicants relying on commensurate expertise must be approved by the department head, academic dean, and approved by the Dean of the Graduate School.

An individual appointed to Graduate Teaching Participant status may

- teach a graduate course.

A Graduate Teaching Participant's term of service is five years (per Graduate Council, November 2013). 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 five years (per Graduate Council, November 2013). 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). 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 *Catalog 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.

COLLEGE OF AGRICULTURE AND LIFE SCIENCES

Agricultural and Biological Engineering

Level 1

Cathcart, Thomas P., Ph.D., University of Maryland, Professor

Elder, Steven H., Ph.D., University of Michigan, Professor

Gilbert, Jerome, Ph.D., Duke University, Professor, Provost and Executive Vice President

Horton, Renita E., Ph.D., Harvard University, Assistant Research Professor

Liao, Jun, Ph.D., Cleveland State University, Assistant Professor

Linhoss, Anna C., Ph.D., University of Florida, Assistant Professor

Parajuli, Prem B., Ph.D., Kansas State University, Assistant Professor and Graduate Coordinator (Agriculture)

Paz, Joel O., Ph.D., Iowa State University, Assistant Professor

Pote, Jonathan W., Ph.D., University of Arkansas, Professor and Department Head

Prabhu, Rajkumar, Ph.D., Mississippi State University, Assistant Research Professor and Graduate Coordinator (Engineering)

Purswell, Joseph L., Ph.D., University of Kentucky, Agricultural Engineer, USDA-ARS Poultry Research Unit Lead Scientist

Schmidt, Amy M., Ph.D., Mississippi State University, Assistant Extension Professor

Simpson, Chartrisa LaShan, Ph.D., Clemson University, Assistant Professor

Srinivasan, Radhakrishnan, Ph.D., University of Illinois at Urbana-Champaign, Assistant Research Professor

Tagert, Mary Love M., Ph.D., Mississippi State University, Assistant Research Professor

To, Filip Suminto D., Ph.D., Mississippi State University, Professor

Ward, Jason K., Ph.D., Mississippi State University, Assistant Extension Professor

Warnock, James Neill, Ph.D., University of Birmingham (United Kingdom), Associate Professor and Associate Dean

Williams, Lakiesha N., Ph.D., Mississippi State University, Associate Professor

Yu, Fei, Ph.D., University of Minnesota, Associate Professor

Participant (T=Teach; C=Committee Member)

Bianchi, Marcus V. A., Ph.D., Purdue University, Building Science Program Lead, Owens Corning, **C**

Bingner, Ronald L., Ph.D., University of Illinois, Agricultural Engineer, USDA, ARS, National Sedimentation Laboratory, **C**

Brooks, John P., Ph.D., University of Arizona, Research Microbiologist, USDA, **C**

Brown-Brandl, Tami, Ph.D., University of Kentucky, Agricultural Engineer, USDA-ARS, U .S. Meat Animal Research Center, Nebraska, **C**

Butler, R. Allen, M.D., Tulane University School of Medicine, Doctor of Medicine, Mississippi Bone and Joint Clinic, **C**

Columbus, Eugene P., M.S., Mississippi State University, Senior Research Associate, **C**

Coolen, Lique M., Ph.D., University of Nijmegen (The Netherlands), Professor, Department of Physiology & Biophysics, University of Mississippi Medical Center, **C**

Fernando, Sandun D., Ph.D., University of Nebraska-Lincoln, Assistant Professor, Texas A&M University, **C**

Foster, Jack B., Jr., M.D., University of Mississippi Medical Center, Cardiologist, UMMC, **C**

Hester, Robert L., Ph.D., University of Mississippi Medical Center, Professor, Department of Physiology & Biophysics, UMCC, **T**, **C**

Hoff, Steven J., Ph.D., University of Minnesota, Professor, Agricultural and Biosystems Engineering, Iowa State University, **C**

Kerut, Kenneth, M.D., University of Mississippi School of Medicine, Cardiologist, UMMC, **C**

Kim, Hak-Kwan, Ph.D., Seoul National University (Korea), Research Associate, **C**

Lindsey, Merry L., Ph.D., Baylor College of Medicine, Professor, Department of Medicine, University of Texas Health Science Center-San Antonio, **C**

Montross, Michael D., Ph.D., Purdue University, Associate Professor, University of Kentucky, **C**

Pordesimo, Lester O., Ph.D., The Pennsylvania State University, Senior Process Scientist, ADM Alliance Nutrition, Inc., **C**

Purswell, Joseph L., Ph.D., University of Kentucky, Agricultural Engineer, USDA-ARS Poultry Research Unit, C

Raper, Randy L., Ph.D., P.E., Iowa State University, Research Leader/ Agricultural Engineer, USDA-ARS, Booneville, AR, **C**

Sassenrath, Gretchen F., Ph.D., University of Illinois, Urbana, Lead Scientist and Plant Physiologist, **C**

Yadav, Madhav P., Ph.D., Southern Illinois University, Research Chemist, C

Agricultural Economics

Level 1

Barnett, Barry J., Ph.D., University of Kentucky, Professor and Graduate Coordinator

Coatney, Kalyn T., Ph.D., University of Wyoming, Assistant Professor

Coble, Keith H., Ph.D., Texas A&M University, Professor

Falconer, Lawrence L., Ph.D., Texas A&M University, Extension Professor

Harri, Ardian, Ph.D., Oklahoma State University, Associate Professor

Herndon, Cary W., Jr., Ph.D., Oklahoma State University, Professor and Associate Vice President for Agriculture, Forestry & Veterinary Medicine

Interis, Matthew G., Ph.D., The Ohio State University, Assistant Professor

Johnson, Jeffrey W., Ph.D., Texas Tech University, Extension/Research Professor and Head of Delta Research and Extension Center, Stoneville

Little, Randall D., Ph.D., Oklahoma State University, Professor

Petrolia, Daniel R., Ph.D., University of Minnesota, Associate Professor

Tack, Jesse B., Ph.D., University of California-Berkeley, 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

Barnes, James N., Ph.D., University of Missouri, Assistant Extension Professor

Collart, Alba J., Ph.D., Texas A&M University, Assistant Extension Professor

Freeman, Matthew Alan, Ph.D., University of Rhode Island, Assistant Professor

Martin, Steven W., Ph.D., Mississippi State University, Extension/ Research Professor and Head, North MS Research and Extension

Parman, Bryon J., Ph.D., Kansas State University, Assistant Extension Professor

Posadas, Benedict C., Ph.D., Mississippi State University, Associate Extension/Research Professor

Riley, John Michael, Ph.D., Kansas State University, Assistant Extension Professor

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Williams, Brian, Ph.D., Oklahoma State University, Assistant Extension Professor

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Hanson, Terrill R., Ph.D., Auburn University, Professor, Department of Fisheries and Allied Aquacultures, Auburn University, **C**

Smith, Rebecca, Ph.D., Louisiana State University, Extension Instructor & Director, MSU Extension Center for Economic Education and Financial Literacy, **T**

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Animal and Dairy Sciences

Level 1

Blanton, John, Jr., Ph.D., Purdue University, Professor and Department Head

Cavinder, Clay A., Ph.D., Texas A&M University, Associate Professor

Larson, Jamie, Ph.D., University of Minnesota, Assistant Professor

Lemley, Caleb O., Ph.D., West Virginia University, Assistant Professor

Memilli, Erdogan, Ph.D., University of Wisconsin-Madison, Associate Professor

Nicodemus, Molly C., Ph.D., Michigan State University, Associate Professor

Parish, Jane A., Ph.D., The University of Georgia, Research/Extension Professor

Rivera, J. Daniel., Ph.D., New Mexico State University, Assistant Research/Extension Professor

Rude, Brian J., Ph.D., Auburn University, Professor and Graduate Coordinator

Ryan, Peter L., Ph.D., University of Guelph, Professor and Associate Provost

Smith, Trent, Ph.D., Louisiana State University, Associate Professor

Vann, Rhonda, Ph.D., Mississippi State University, Research Professor

Ward, Stephanie H., Ph.D., Virginia Polytechnic Institute and State University, Assistant Professor

Willard, Scott T., Ph.D**.,** Texas A&M University, Professor and Associate Dean

Level 2

Crenshaw, Mark, Ph.D., Mississippi State University, Extension Professor and Interim Associate Dean, CALS

Dinh, Thu, Ph.D., Texas Tech University, Assistant Professor

Feugang, Jean M. N., Ph.D., Catholic University of Louvain (Belgium), Assistant Research Professor

Jousan, Dean, Ph.D., University of Florida, Associate Extension Professor

Karisch, Brandi B., Ph.D., Texas A&M University, Assistant Extension/ Research Professor

Liao, Shengfa, Ph.D., University of Alberta (Canada), Assistant Professor

Participant (T=Teach; C=Committee Member)

Block, Jeremy, Ph.D., University of Florida, Owner & General Manager, OvaTech LLC, Gainesville, FL, **C**

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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**

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Godfrey, Robert W., Ph.D., Texas A&M University, Professor and Director, Agricultural Experiment Station, University of the Virgin Islands, **C**

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Perry, George A., Jr., Ph.D., University of Missouri-Columbia, Professor, Department of Animal and Range Services, South Dakota State University, **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**

Sexten, Andrea K., Ph.D., Oklahoma State University, Assistant Professor, Department of Animal Sciences and Industry, Kansas State University, **C**

Ward, Paula Marie L., Ph.D., Rutgers University, Visiting Professor, Rutgers University; President/CEO MSC Marketing, **C**

Whitley, Niki C., Ph.D., Mississippi State University, Associate Professor, North Carolina A&T University, **C**

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Animal Physiology

Level 1

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Chambers, Howard W., Ph.D., University of California, Professor

Chambers, Janice E., Ph.D., Mississippi State University, Professor and Director, Center for Environmental Health Sciences

Hopper, Richard M., D.V.M., Auburn University, Professor

Larson, Jamie, Ph.D., University of Minnesota, Assistant Professor

Linford, Robert L., D.V.M., Colorado State University, Ph.D., University of California, Davis, Professor

McDaniel, Christopher D., Ph.D., University of Georgia, Professor

Memilli, Erdogan, Ph.D., University of Wisconsin-Madison, Associate Professor

Peebles, E. David, Ph.D., North Carolina State University, Professor

Ryan, Peter L., Ph.D., University of Guelph, Professor, Graduate Coordinator and Associate Provost

Vann, Rhonda, Ph.D., Mississippi State University, Research Professor

Willard, Scott T., Ph.D., Texas A&M University, Professor and Associate Dean; Interim Graduate Coordinator

Willeford, Kenneth O., Ph.D., University of California, Riverside, Professor; Interim Department Head, Biochemistry, Molecular Biology, Entomology, and Plant Pathology

Wills, Robert W., D.V.M., University of Missouri; Ph.D., Iowa State University, Professor

Level 2

Chamblee, Timothy, Ph.D., Mississippi State University, Associate Professor and Director, Office of Institutional Research and Effectiveness

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Hoffman, Federico G., Ph.D., Texas Tech University, Assistant Professor

Jousan, Dean, Ph.D., University of Florida, Associate Extension Professor

Larson, Jamie, Ph.D., University of Minnesota, Assistant Professor

Nicodemus, Molly C., Ph.D., Michigan State University, Associate Professor

Smith, Trent, Ph.D., Louisiana State University, Associate Professor

Stewart, James A., Jr., Ph.D., Auburn University, Assistant Professor

Thornton, Justin A., Ph.D., University of Mississippi Medical Center, Assistant Professor

Zhai, Wei, Ph.D., Purdue University, Assistant Professor

Participant (T=Teach; C=Committee Member)

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Gratwicke, Brian, D.Phil**.**, Oxford University, Amphibian Conservation Biologist, Smithsonian national Zoological Park, **C**

Holt, William, Ph.D., Royal Veterinary College (UK), Professor, Reproductive and Development Medicine, University of Sheffield (UK), **C**

Kouba, Andy J., Ph.D., University of Florida, Director, Research & Conservation; Head, Forest Health & Restoration Ecology; Head, Reproductive Sciences, Memphis, TN, Zoo, **C**

Mitchell, Mark A., Ph.D., Louisiana State University, Professor, University of Illinois, **C**

Biochemistry, Molecular Biology, Entomology and Plant Pathology

Level 1

Aboughanem, Nina, Ph.D., University of Bari (Italy), Assistant Research Professor

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Baker, Gerald T., Ph.D., Oregon State University, Professor

Baldwin, Brian, Ph.D., New Mexico State University, Professor

Brown-Johnson, Ashli, Ph.D., University of South Florida, Associate Professor

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Catchot, Angus L., Jr., Ph.D., Mississippi State University, Associate Extension Professor

Chambers, Howard W., Ph.D., University of California, Professor

Counterman, Brian, Ph.D., Duke University, Assistant Professor

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Lu, Shien, Ph.D., Washington State University, Associate Professor

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Associate

Rodriguez, Jose M., Ph.D., University of Idaho, Assistant Research Professor

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Knott, Katrina K., Ph.D., University of Alaska-Fairbanks, Research Scientist, Memphis, TN, Zoo, **C**

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Kouba, Andy J., Ph.D., University of Florida, Director, Research & Conservation; Head, Forest Health & Restoration Ecology; Head, Reproductive Sciences, Memphis, TN, Zoo, **C**

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Mitchell, Mark A., Ph.D., Louisiana State University; D.V.M. University of Illinois, **C**

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Smith, James L., Ph.D., University of Florida, Assistant Professor, Texas A&M University, **C**

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Stevens, Richard D., Ph.D., Texas Tech University, Associate Professor, Louisiana State University, **C**

Stewart, Scott D., Ph.D., Auburn University, Professor of Entomology, University of Tennessee, **C**

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Ulyshen, Michael Darragh, Ph.D., University of Georgia, Entomologist , USDA Forest Service, **C**

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Food Science, Nutrition and Health Promotion

Level 1

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Cheng, Wen-Hsing, Ph.D., Cornell University, Associate Professor (Nutrition)

Fountain, Brent J., Ph.D., Mississippi State University, Associate Extension Professor (Nutrition)

Hunt, Barry P., Ed.D, University of Alabama, Professor (Health Promotion)

Haque, Zahur Z., Ph.D., Kyoto University, Professor (Food Science and Technology) and Graduate Coordinator

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Nannapaneni, Ramakrishna, Ph.D., University of Strathclyde, Glasgow (UK), Associate Research Professor (Food Science and Technology)

Schilling, M. Wes, Ph.D., Virginia Polytechnic Institute and State University, Professor (Food Science and Technology)

Silva, Juan L., Ph.D., Mississippi State University, Professor (Food Science and Technology)

Tidwell, Diane K., Ph.D., Mississippi State University, Professor (Nutrition)

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Level 2

Buys, David R., Ph.D., University of Alabama-Birmingham, Assistant Extension and Research Professor

Carew, Bonnie L., Ph.D., Mississippi State University, Assistant Extension Professor (Health Promotion)

Mahmoud, Barakat S. M., Ph.D., Hokkaido University (Japan), Assistant Extension/Research Professor

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Christensen, Karen D., Ph.D., Mississippi State University, Director of Technical Services, OK Farms, Inc., Fort Smith, AR, **C**

Cord, Christine Leick, Ph.D., Mississippi State University, Lecturer, **T**

Gerard, Patrick D., Ph.D., Southern Methodist University, Professor of Mathematical Sciences, Clemson University

Gillen, Anne M., Ph.D., University of California-Davis, Research Geneticist, USDA-ARS, Stoneville, **C**

Gillis, William T., Ph.D., Mississippi State University, Lecturer, **T**

Ghavimi, Bahman, Ph.D., Mississippi State University, President, Dr. G's Creations, LLC, **C**

Hall, Michael E., Ph.D., University of Tennessee, Lecturer, **T**, **C**

Herring, Josh L., PhD., Mississippi State University, Associate Professor, Food and Animal Sciences, Alabama A&M University, **C**

Joseph, Poulson, Ph.D., University of Kentucky, Research Associate, **C**

Khan, Fauzia A., Ph.D., Mississippi State University, Lecturer, **T**

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Matich, June Renee, M.S., Pennsylvania State University, Instructor/ Assistant Director Didactic Program in Dietetics, **T**

Moraes, Rita M., Ph.D., Mississippi State University, Associate Research Professor, National Center for Natural Products Research, **C**

Muherjee, Dipaloke, Ph.D., Mississippi State University, Postdoctoral Research Associate/Lecturer, **T**

Newman, Melissa C., Ph.D., University of Kentucky, Lecturer, **T**

Phillips, Thomas W., Ph.D., State University of New York-Syracuse, Professor, Department of Entomology, Kansas State University, **C**

Sheen, Shiowshuh, Ph.D., Rutgers University, Research Food Technologist, USDA/ARS/ERRC, **C**

Smith, Brian S., Ph.D., Louisiana State University, Director, Business Development – Food Ingredients, Hawkins, 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**

Suman, Surendranath, Ph.D., University of Connecticut, Associate Professor, Department of Animal and Food Sciences, University of Kentucky, **C**

Thaxton, Yvonne V., Ph.D., Auburn University, Professor and Director, Center for Food Animal Wellbeing, University of Arkansas, **C**

Thompson, Amy J., Ph.D., The University of Toledo, Lecturer, **T**

White, Kelly M., RD, CSSD; M.S., Mississippi State University, Lecturer, **T**

Williams, Ronald D., Ph.D., University of Alabama, Assistant Professor, Department of Health and Human Performance, Texas State University, **T**, **C**

Xiong, Youling L., Ph.D., Washington State University, Professor, Department of Animal and Food Sciences, University of Kentucky, **C**

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School of Human Sciences

Agricultural and Extension Education

Level 1

Akers, Christopher Ryan, Ph.D., University of Georgia, Assistant Extension Professor

Denny, Marina D'Abreau, Ed.D., Nova Southeastern University, Assistant Professor

Downey, Laura Hall, Ph.D., University of Kentucky, Assistant Extension Professor

Hock, Gaea A., Ph.D., Texas Tech University, Assistant Professor

Jackson, Gary B., Ph.D., The Pennsylvania State University, Associate Professor and Director of Extension

Lemons, Laura L., Ph.D., Texas Tech University, Assistant Professor

Newman, Michael E., Ph.D., Mississippi State University, Professor and Director of Human Sciences

Peterson, Donna J., Ph.D., University of Arizona, Assistant Extension Professor

Seal, Susan D., Mississippi State University, Assistant Professor

Settle, Quisto, Ph.D., University of Florida, Assistant Professor

Sexton, Julie S., Ph.D., Mississippi State University, Extension Professor

Swortzel, Kirk A., Ph.D., Ohio State University, Professor and Graduate Coordinator

Threadgill, Paula I., Ph.D., Mississippi State University, Extension Professor

White, Ronnie W., Ph.D., Mississippi State University, Extension Professor

Level 2

Giesemann, John T., Ph.D., Mississippi State University, Extension Professor

Long, John L., Ph.D., Mississippi State University, Assistant Extension Professor

Associate

Oldham, Dehlia Rae, Ph.D., Colorado State University, Extension Professor

Participant (T=Teach; C=Committee Member)

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Deeds, Jacquelyn P., Ph.D., Ohio State University, Professor (Retired), **C**

Panicker, Girish K., Ph.D., Mississippi State University, Associate Professor & Director of Conservation Research, Alcorn State University, **C**

School of Human Sciences

Human Development and Family Studies

Level 1

Akande, Katrina A.R., Ph.D., University of Kentucky, Assistant Professor

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Downey, Laura Hall, DrPH, University of Kentucky, Assistant Extension Professor

Elmore-Staton, Lori D., Ph.D., Auburn University, Assistant Professor

Green, Rita W., Ed.D., University of Memphis, Assistant Professor

Hardman, Alisha M., Ph.D., University of Minnesota, Assistant Professor

Parker, Julie C., Ph.D., Northcentral University, Assistant Professor

Peterson, Donna J., Ph.D., University of Arizona, Assistant Extension Professor

Phillips, Tommy M., Ph.D., Auburn University, Associate Professor and Graduate Coordinator

Wilmoth, Joe D., Ph.D., Oklahoma State University, Associate Professor

Level 2

Freeman, Charles E., Ph.D., Louisiana State University, Assistant Professor

Lee, Juyoung (Jill), Ph.D., Iowa State University, Assistant Professor

Miller, Phyllis B., Ph.D., University of Tennessee, Professor

Participant (T=Teach; C=Committee Member)

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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, Professor

Schauwecker, Timothy J., Ph.D., Mississippi State University, Associate Professor

Seymour, Michael, M.L.A., Louisiana State University, Associate Professor and Graduate Coordinator

Summerlin, Peter R., M.L.A., Louisiana State University, Assistant Professor

Walker, Jason B., M.L.A., Virginia Polytechnic Institute and State University, Associate Professor

Level 2

Fulford, Charles Taze, III, M. Arch, University of Idaho, Associate Professor

Gallo, Warren C., M.U.D., University of Michigan, Assistant Professor

Li, Chuo, Ph.D., University of Illinois at Urbana-Champaign, Assistant Professor

Payne, Elizabeth, M.Phil., School of Landscape Architecture, University of Edinburgh (Scotland), Assistant Professor

Plant and Soil Sciences

Level 1

Bachman, Gary R., Ph.D., The Ohio State University, Associate Extension/Research Professor

Baldwin, Brian S., Ph.D., New Mexico State University, Professor

Bi, Guihong, Ph.D., Oregon State University, Associate Research Professor

Blythe, Eugene K., Ph.D., Auburn University, Associate Research Professor

Bond, Jason A., Ph.D., University of Arkansas, Associate Research/ Extension Professor

Buehring, Normie W., Ph.D., Oklahoma State University, Research Professor

Byrd, John D., Ph.D., North Carolina State University, Extension/ Research Professor

Coker, Christine H., Ph.D., Auburn University, Associate Research Professor

Cox, Michael S., Ph.D., Louisiana State University, Professor and Graduate Coordinator

Dodds, Darrin M., Ph.D., Mississippi State University, Associate Extension Professor

Golden, Bobby R., Ph.D., University of Arkansas, Assistant Research Professor

Harkess, Richard L., Ph.D., Virginia Polytechnic Institute and State University, Professor

Kingery, William L., Ph.D., Auburn University, Professor

Knight, Patricia R., Ph.D., Virginia Tech, Extension/Research Professor & Head, Coastal Research and Extension Center

Lang, David J., Ph.D., University of New Hampshire, Associate Professor

Larson, Erick, Ph.D., University of Nebraska-Lincoln, Associate Extension/Research Professor

Lemus, Rocky W., Ph.D., Virginia Polytechnic Institute and State University, Assistant Extension Professor

Macoon, Bisoondat, Ph.D., University of Florida, Associate Research Professor

Matta, Frank B., Ph.D., Texas A&M University, Professor

Peterson, Daniel G., Ph.D., Colorado State University, Professor

Nandula, Vijay K., Ph.D., Virginia Polytechnic Institute and State University, Research Plant Physiologist, USDA-ARS

Phillips, J. Mike, Ph.D., University of Arkansas, Professor and Department Head

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Redoña, Edilberto, Ph.D., University of California-Davis, Research Professor (DREC)

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Varco, Jac J., Ph.D., University of Kentucky, Professor

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Level 2

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Crouse, Karl K., Ph.D., Mississippi State University, Associate Extension Professor

DelPrince, James, Ph.D., Mississippi State University, Professor

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Ebelhar, M. Wayne, Ph.D., University of Illinois, Research Professor

Evans, William B., Ph.D., Michigan State University, Associate Research Professor

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Nagel, David, Ph.D., University of Florida, Extension Professor

Oldham, J. Larry, Ph.D., University of Minnesota, Extension Professor

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Sarver, Jason M., Ph.D., University of Georgia, Assistant Extension/ Research Professor

Sloan, Crofton, Ph.D., Mississippi State University, Assistant Research Professor

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Lawrence, Kathy S., Ph.D., Mississippi State University, Professor, Department of Entomology and Plant Pathology, Auburn University, **C**

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Madsen, John D., Ph.D., University of Wisconsin, Research Biologist, USDA-ARS, **C**

Meints, Paul D., Ph.D., Oregon State University, Instructor, **C**

Mills, James Anthony, Ph.D., University of Kentucky, Monsanto - Weed Management Technology Development Representative, **C**

Moraes, Rita M., Ph.D., Mississippi State University, Associate Research Professor, National Center for Natural Products Research, School of Pharmacy, University of Mississippi, **C**

Nelson, C. Dana, Ph.D., University of Minnesota, Research Geneticist & Project Leader/USDA Forest Service, Southern Research Station, Southern Institute of Forest Genetics, **C**

Nichols, Robert L., Ph.D., University of Connecticut, Senior Director of Research, Cotton Incorporated, Cary, NC, **C**

Porter, Wayne C., Ph.D., North Carolina State University, Area Horticulture Agent IV, Extension Service, **C**

Ray, Jeffery D., Ph.D., University of Florida, Research Plant Geneticist, USDA-ARS, **C**

Read, John J., PhD., Oklahoma State University, Research Agronomist, USDA-ARS, **C**

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Roberts, Darrin F., Ph.D., University of Nebraska-Lincoln, Research Scientist, Pioneer Hi-Bred International, Inc., **C**

Rushing, J. Brett, Ph.D., Mississippi State University, Research Associate III, **C**

Saha, Sukumar, Ph.D., Texas A&M University, Research Geneticist, USDA-ARS, **C**

Sakhanokho, Hamidou F., Ph.D., Alabama Agricultural and Mechanical University, Research Scientist, USDA-ARS, Southern Horticultural Laboratory, **C**

Street, Joe E., Ph.D., Auburn University, Associate Director, MSU-ES, **C**

Tewolde, Haile, Ph.D., University of Arizona, Research Agronomist, USDA-ARS, **C**

Tiwari, Khusi R., Ph.D., University of Manitoba, Winnipeg (Canada), **C**

Trader, Brian W., Ph.D., Virginia Tech, Coordinator of Domestic and International Studies, Longwood Gardens, **C**

Walker, Timothy W., Ph.D., Mississippi State University, General Manager, Horizon AG, LLC, **C**

Wersal, Ryan M., Ph.D., Mississippi State University, Postdoctoral Associate, **C**

Wilson, David. G., Jr., Ph.D., North Carolina State University, Product Development Manager, Monsanto Company, **C**

Poultry Science

Level 1

Beck, Mary M., Ph. D., University of Maryland, Professor and Department Head

Farnell, Morgan B., Ph.D., Texas A&M University, Associate Professor

Kiess, Aaron S., Ph.D., West Virginia University, Associate Professor

McDaniel, Christopher D., Ph.D., University of Georgia, Professor and Graduate Coordinator

Peebles, E. David, Ph.D., North Carolina State University, Professor

Tabler, Thomas, Ph.D., University of Arkansas, Extension Professor

Level 2

Chamblee, Timothy, Ph.D., Mississippi State University, Associate Professor and Director, Office of Institutional Research and Effectiveness

Sharma, Chander Shekhar, Ph.D., University of Florida, Assistant Professor

Wamsley, Kelley G. S., Ph.D., West Virginia University, Assistant Professor

Zhai, Wei, Ph.D., Purdue University, Assistant Professor

Associate

Farnell, Yuhua Z., Ph.D., Texas A&M University, Assistant Professor

Participant (T=Teach; C=Committee Member)

Branton, Scott L., Ph.D., Mississippi State University, Supervisory Veterinary Medical Officer, USDA-ARS, **C**

Corzo, Alejandro, Ph.D., Auburn University, Global Head of Nutrition Services, Aviagen, **C**

Cummings, Timothy S., D.V.M., Mississippi State University, Senior Technical Services Veterinarian, Zoeits, C

Dozier, W. A., III, Ph.D. Auburn University, Poultry Nutritionist, Auburn University, **C**

Evans, Jeff D., Ph.D., University of Georgia; Microbiologist, USDA-ARS, **C**

Kim, Elizabeth J., Ph.D., University of Illinois at Urbana-Champaign, Research Animal Scientist, **C**

Leigh, Spencer A., Ph.D., University of Missouri, Research Microbiologist, USDA-ARS, **C**

Mejía, Leonel, Ph.D., Mississippi State University, Technical Services Account Representative-Central America, Caribbean and Mexico, Cobb-Vantress, **C**

Moritz, Joseph S., III, Ph.D., Kansas State University, Professor of Poultry Science, West Virginia University, **C**

Olanrewaju, Hammed A., Ph.D., University of Tennessee, Research Animal Scientist, USDA ARS, **C**

Purswell, Joseph L., Ph.D., University of Kentucky, Agricultural Engineer, USDA, **C**

Williams, Christopher J., Ph.D., North Carolina State University, Director, Technical Services, Zoetis, **C**

COLLEGE OF ARCHITECTURE, ART, AND DESIGN

School of Architecture

Level 1

Berk, Michael A., R.A., M.A.Arch., University of Florida, F. L. Crane Professor and Director, School of Architecture

Hall, Greg G., Ph.D., University of Hong Kong, Associate Dean and Professor

Lewis, David C., R.A., Ph.D., Georgia Institute of Technology, Professor

McCann, Rachel E., R.A., Ph.D., Architectural Association School of Architecture-London, Professor

Perkes, David, R.A., M.Arch., University of Utah, Professor and Director, Gulf Coast Community Design Studio

West, James L., R.A., M.Arch., University of Florida, Professor and Dean of College of Architecture, Art, and Design

Level 2

Callender, Jassen, M.F.A., University of Minnesota, Associate Professor, Jackson Center Director

Frank, Tim, M.Arch., Georgia Institute of Technology, Assistant Professor

Gines, Jacob A., M. Arch., University of Utah, Assistant Professor

Gregory, Alexis Denise, R.A., M.S.Arch., Clemson University, Assistant Professor

Herrmann, Hans C., R.A., M.Arch., Clemson University, Associate Professor

McGlohn, Emily M., M.Arch., University of Oregon, Assistant Professor

Poros, John, R.A., M.Arch., Harvard University GSD, Associate Professor

Taylor, Justin, M.S.Arch., Mississippi State University, Assistant Professor

Tripp, Andrew Reed, M.S.Arch., University of Pennsylvania School of Design, Assistant Professor

Art

Level 2

Anderson, William C., M.F.A., Mississippi State University, Assistant Professor

Bain, Peter S., M.F.A., Virginia Commonwealth University, Assistant Professor

Bostic, Alexander, M.A., Syracuse University, Associate Professor

Bourgeois, Angi E., Ph.D., Emory University, Associate Professor

Callander, Neil, M.F.A., Mason Gross School of the Arts, Rutgers University, Assistant Professor

Campbell, Critz, M.F.D., Parnham College (UK), Associate Professor

Funderburk, T. Brent, M.F.A., East Carolina University, Professor

Gootee, Marita, M.F.A., Indiana University, Professor

Harvey, Benjamin, Ph.D., University of North Carolina, Associate Professor

Haupt, Jeffrey, M.F.A., Indiana University, Professor

Landry, Jude, M.F.A., Louisiana Tech University, Associate Professor

Lippillo, Dominic, M.F.A., Ohio University, Assistant Professor

Long, Robert J., M.F.A., Clemson University, Professor

Martin, Gregory, M.F.A., Claremont Graduate University, Assistant Professor

McCourt, Tim, M.F.A., University of Southern California, Professor

Mixon, Jamie B., B.A., Mississippi State University, Professor

Ngoh, Soon Ee, M.F.A., University of Massachusetts, Associate Professor

Powney, Jeralyn Suzanne, M.F.A., University of Houston, Assistant Professor

Runnells, Jamie, M.Des., Edinburgh College of Art (Scotland), Associate Professor

Seckinger, Linda K., M.F.A., Arizona State University, Professor

Design

Level 1

Miller, Beth R., M.Ed., Mississippi University for Women, Interim Associate Dean, College of Architecture, Art, and Design; Director, Interior Design

Level 2

Crumpton, Amy E., M.S., University of Tennessee, Associate Professor

Riehm, William, M.S., University of Nebraska, Assistant Professor

COLLEGE OF ARTS & SCIENCES

Anthropology and Middle Eastern Cultures

Level 1

Galaty, Michael L., Ph.D., University of Wisconsin-Madison, Professor (Anthropology) and Department Head

Hardin, James W., Ph.D., University of Arizona, Associate Professor (Anthropology)

Herrmann, Nicholas P., Ph.D., University of Tennessee, Associate Professor (Anthropology)

Hoffman, David M., Ph.D., University of Colorado, Associate Professor (Anthropology) and Graduate Coordinator

Peacock, Evan, Ph.D., University of Sheffield, Professor (Anthropology)

Level 2

Copeland, Toni J., Ph.D., University of Alabama, Assistant Professor (Anthropology)

McClellan, Kate, Ph.D., University of Michigan, Ann Arbor, Assistant Professor (Anthropology)

Miller, Darcy Shane, Ph.D., University of Arizona, Assistant Professor (Anthropology)

Zuckerman, Molly K., Ph.D., Emory University, Assistant Professor (Anthropology)

Associate

Seger, Joe D., Th.D., Harvard University, Director of Cobb Institute of Archaeology and Professor (Middle Eastern Cultures)

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Schewe, Rebecca L., Ph.D., University of Wisconsin-Madison, Assistant Professor of Sociology, Syracuse University, **C**

Biological Sciences

Level 1

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Brown, Matthew W., Ph.D., University of Arkansas, Assistant Professor

Counterman, Brian A., Ph.D., Duke University, Assistant Professor

Donaldson, Janet R., Ph.D., Mississippi State University, Assistant Professor

Ervin, Gary N., Ph.D., University of Alabama, Professor and Interim Department Head

Gordon, Donna M., Ph.D., University of Pennsylvania School of Medicine, Assistant Professor and Graduate Coordinator, GBIO

Jordan, Heather, Ph.D., University of Tennessee, Assistant Professor

Klink, Vincent, Ph.D., The University of Maryland, Associate Professor

Munn, Giselle, Ph.D., University of Kansas, Associate Professor

Outlaw, Diana C., Ph.D., University of Memphis, Assistant Professor

Range, Ryan C., Ph.D., Duke University, Assistant Professor

Reichert, Nancy A., Ph.D., New Mexico State University, Professor

Stewart, James A., Jr., Ph.D., Auburn University, Assistant Professor

Thornton, Justin A., Ph.D., University of Mississippi Medical Center, Assistant Professor

Wallace, Lisa, Ph.D., Ohio State University, Associate Professor

Welch, Mark E., Ph.D., Indiana University, Assistant Professor and Graduate Coordinator

Level 2

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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, Vice President of Conservation and Research, John G. Shedd Aquarium, Chicago, **C**

Kröger, Robert, Ph.D., University of Mississippi, Chief Scientific Officer, Covington Civil and Environmental, **C**

Ray, David A., Ph.D., Texas Tech University, Associate Professor, Texas Tech University, **C**

Rosch, Jason W., Ph.D., Washington University, Assistant Member, St. Jude Children's Research Hospital; Affiliated Assistant Professor, University of Tennessee Health Sciences Center, **C**

Spiegel, Frederick W., Ph.D., University of North Carolina-Chapel Hill, Professor, Department of Biological Sciences, University of Arkansas, **C**

Voelker, Gary A., Ph.D., University of Washington, Associate Professor and Curator of Birds, Texas A&M University, **C**

Wilson, Byron S., Ph.D., University of Washington-Seattle, Professor of Conservation Biology, University of the West Indies, **C**

Chemistry

Level 1

Emerson, Joseph P., Ph.D., University of Georgia, Assistant Professor

Fitzkee, Nicholas C., Ph.D., Johns Hopkins University, Assistant Professor

Foster, Stephen C., Ph.D., Dalhousie University, Associate Professor and Graduate Coordinator

Gwaltney, Steven, Ph.D., University of Florida, Associate Professor

Lewis, Edwin A., Ph.D., University of New Mexico, Professor

Mead, Keith T., Ph.D., Southampton University, Professor

Mlsna, Debra Ann, PhD., University of Texas, Assistant Professor

Mlsna, Todd E., Ph.D., University of Texas at Austin, Associate Professor

Saebo, Svein, Cand. Real. (Ph.D.), University of Tromso (Norway), Professor

Sygula, Andrzej, Ph.D., Jagiellonian University, Professor

Webster, Charles Edwin, Ph.D., University of Florida, Associate Professor

Wipf, David O., Ph.D., Indiana University, Professor

Zhang, Dongmao, Ph.D., Purdue University, Associate Professor

Level 2

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Frisch, Jonathan R., Ph.D., University of Minnesota, Instructor, **T**, **C**

Graves, David E., Ph.D., University of Alabama at Birmingham, Professor and Chair, University of Alabama-Birmingham, **C**

Li, Tingyu, Ph.D., Harvard University, Program Director, Division of Chemistry, National Science Foundation, **C**

Merchant, Mark E., Ph.D., Texas A&M University, Professor , McNeese State University, **C**

Oliver, Allen Grayson, Ph.D., Waikato University (New Zealand), Research Professor, Department of Chemistry and Biochemistry, University of Notre Dame, **C**

Pittman, Charles U., Jr., Ph.D., Pennsylvania State University, Professor Emeritus, **C**

Wilson, W. William, Ph.D., University of North Carolina, Professor Emeritus, **C**

Xia, Kang, Ph.D., University of Wisconsin-Madison, Associate Professor, Virginia Tech, **C**

Classical & Modern Languages and Literatures

Level 1

Clark, Mark E., Ph.D., Indiana University, Associate Professor (Classics)

Harland, Robert J. E., Ph.D. University of Wales, Associate Professor (Spanish)

Jordan, Jack, Ph.D., University of Virginia, Professor (French)

Potter, Edward T., Ph.D., University of North Carolina at Chapel Hill, Associate Professor (German)

Wolverton, Robert E., Ph.D., University of North Carolina, Professor (Classics)

Level 2

Arroyo, Silvia, Ph.D., University of Colorado, Assistant Professor (Spanish)

Davisson, Brian M., Ph.D., University of California-Davis, Assistant Professor (Spanish)

Espinosa, Carlos D., Ph.D., Florida International University, Assistant Professor (Spanish)

Gray, Sally H., Ph.D., University of North Carolina at Chapel Hill, Assistant Professor (German)

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Simpore, Karim, Ph.D., University of Louisiana at Lafayette, Assistant Professor (French)

Associate

Dunn-Whitener, Maryjane, Ph.D., University of Pennsylvania, Visiting Assistant Professor (Spanish)

Communication

Level 2

Clevinger, Donna L., Ph.D., University of Michigan, Ann Arbor, Professor

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Flick, Harry Albert, II, Ph.D., Southern Illinois University, Professor

Forde, John E., Ph.D., University of Southern Mississippi, Associate Professor and Department Head

Goodman, Mark, Ph.D., University of Missouri at Columbia, Professor

Loehwing, Melanie, Ph.D., Indiana University, Assistant Professor

Nicholson, John H., Ph.D., University of Iowa, Associate Professor

Roussin, Wendy K., M.F.A., Indiana State University, Assistant Professor

Ryalls, Emily D., Ph.D., University of South Florida, Assistant Professor

Smith, Glen D., Ph.D., The University of Southern Mississippi, Associate Professor

Strout, Lawrence N., Ph.D., Florida State University, Associate Professor

Walton, Laura R., Ph.D., University of Southern Mississippi, Assistant Professor

Williams, Kevin D., Ph.D., University of Georgia, Associate Professor

English

Level 1

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Lyons, Richard, Ph.D., University of Houston, Professor

Marsh, Kelly, Ph.D., The Pennsylvania State University, Associate Professor

O'Neill, Bonnie C., Ph.D., Washington University, Associate Professor

Pierce, Catherine, Ph.D., University of Missouri, Associate Professor

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Level 2

DeGabriele, Peter, PhD., University at Buffalo-SUNY, Assistant Professor

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Geosciences

Level 1

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Clary, Renee M., Ph.D., Louisiana State University, Associate Professor

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Kirkland, Brenda L., Ph.D., Louisiana State University, Associate Professor

Meng, Qingmin, Ph.D., University of Georgia, Peking University (China), Assistant Professor

Mercer, Andrew E., Ph.D., University of Oklahoma, Assistant Professor

Mylroie, John E., Ph.D., Rensselaer Polytechnic Institute, Professor

Rodgers, John C., III, Ph.D., University of Georgia, Associate Professor

Schmitz, Darrel W., Ph.D., Texas A&M University, Professor

Sherman-Morris, Kathleen, Ph.D., Florida State University, Associate Professor

Skarke, Adam, Ph.D., University of Delaware, 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

Samson, Scott A., Ph.D., University of Nebraska-Lincoln, Extension Professor

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Butler, Dwain K., Ph.D., Texas A&M University, President, Applied Geophysics Consultancy LLC, Senior Principal Scientist **T, C**

Caputo, Mario V., Ph.D., University of Cincinnati, Professor, Mt. San Antonio College (CA), **C**

Corcoran, Maureen K., Ph.D., University of Mississippi, Associate Technical Director, US Army engineer Research and Development Center, **C**

Cossman, Ronald E., Ph.D., University of Colorado, Associate Research Professor, **T, C**

Cottrell, William Stephen, Ed.D., Mississippi State University, Assistant Director, International Institute, **T**

Dixon, P. Grady, Ph.D., Arizona State University, Associate Professor, Department of Geosciences, Fort Hays State University, **C**

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Goodrich, Gregory B., Ph.D., Arizona State University, Assistant Professor, Western Kentucky University, **C**

Han, Fengziang X., Ph.D., The Hebrew University of Jerusalem (Israel), Assistant Professor, Department of Chemistry and Biochemistry, Jackson State University, **C**

Heydari, Ezat, Ph.D., Louisiana State University, Professor, Department of Physics, Atmospheric Sciences, and Geosciences, Jackson State University, **C**

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McNeal, Karen, Ph.D., Texas A&M University, Associate Professor, Department of Marine Earth & Atmospheric Sciences, North Carolina State University, **C**

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**

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Palmer, Arthur N., Ph.D., Indiana University, Professor Emeritus, SUNY, Oneonta, NY; Adjunct Professor, Western Kentucky University, **C**

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Polk, Jason S., Ph.D., University of South Florida, Assistant Professor & Associate Director of Science, Hoffman Environmental Research Institute, Western Kentucky University, **C**

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Vandewege, Reynold, M.S., Mississippi State University, Instructor, **T**

Veeramony, Jayaram, Ph.D., University of Delaware, Civil Engineer, Stennis Space Center, **C**

History

Level 1

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Byrd, Brandon R., Ph.D., University of North Carolina-Chapel Hill, Assistant Professor

Damms, Richard V., Ph.D., The Ohio State University, Associate Professor

Giesen, James C., Ph.D., University of Georgia, Associate Professor

Greene, Alison Collis, Ph.D., Yale University, Assistant Professor

Hay, William Anthony, Ph.D., University of Virginia, Associate Professor

Hersey, Mark D., Ph.D., University of Kansas, Associate Professor

Hui, Alexandra E., Ph.D., University of California at Los Angeles, Associate Professor

Lang, Andrew F., Ph.D., Rice University, Assistant Professor

Lavine, Matthew B., Ph.D., University of Wisconsin-Madison, Associate Professor

Marcus, Alan I., Ph.D., University of Cincinnati, Professor and Department Head

Marshall, Anne E., Ph.D., University of Georgia, Associate Professor

Messer, Peter C., Ph.D., Rutgers University, Associate Professor

Middleton, Stephen, Ph.D., Miami University, Professor and Director, African American Studies

Mitchell, Dennis, Ph.D., University of Mississippi, Professor and Associate Dean, Meridian

Osman, Julia,, Ph.D., University of North Carolina, Chapel Hill, Assistant Professor

Ridner, Judith A., Ph.D., College of William and Mary, Associate Professor

Snyder, Christopher A., Ph.D., Emory University, Professor and Dean, Honors College

Ward, Jason M., Ph.D., Yale University, Associate Professor

Williams, Michael V., Ph.D., University of Mississippi, Assistant Professor

Level 2

Wu, Shu-Hui, Ph.D., Free University of Berlin, Associate Professor

Participant (T=Teach; C=Committee Member)

Bourque, Stephen Alan, Ph.D., Georgia State University, Professor, School of Advanced Military Studies, U.S. Army Command, **C**

Mathematics and Statistics

Level 1

Dang, Dinh H., Ph.D., HoChiMinh City University, Professor (Mathematics)

Dobson, Edward T., Ph.D., Louisiana State University, Professor (Mathematics)

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Kim, Seongjai, Ph.D., Purdue University, Associate Professor (Mathematics)

Lim, Hyeona, Ph.D., Michigan State University, Associate Professor (Mathematics)

Miller, T. Len, Ph.D., Virginia Polytechnic Institute and State University, Professor (Mathematics)

Miller, Vivien G., Ph.D., Mississippi State University, Professor (Mathematics)

Neumann, Michael M., Ph.D., University of Saarbrucken (West Germany) Professor (Mathematics)

Oppenheimer, Seth F., Ph.D., University of Texas at Austin, Professor (Mathematics)

Patil, Prakash N., Ph.D., University of North Carolina-Chapel Hill, Associate Professor (Statistics)

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)

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)

Smith, Robert C., Ph.D., University of Arkansas, Associate Professor (Mathematics)

Woodroofe, Russell, Ph.D., Cornell University, Assistant Professor (Mathematics)

Woody, Jonathan R., Ph.D., Clemson University, Assistant Professor (Statistics)

Wu, Tung-Lung, Ph.D., University of Manitoba, Assistant Professor (Statistics)

Yang, Xingzhou, Ph.D., North Carolina State University, Assistant Professor (Mathematics)

Yarahmadian, Shantia, Ph.D., Indiana University-Bloomington, Assistant Professor (Mathematics)

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Shows, Justin H., Ph.D., North Carolina State University, Teaching Assistant Professor, Department of Statistics, University of Missouri, **C**

Zhang, Haimeng, Ph.D., University of Southern California, Associate Professor, Department of Mathematics & Statistics, The University of North Carolina at Greensboro (Statistics), **C**

Philosophy and Religion

Level 1

Bickle, John, Ph.D., University of California, Irvine, Professor (Philosophy) and Department Head

Phillips, Trisha B., Ph.D., Rice University, Associate Professor (Philosophy)

Level 2

Clifford, Michael R., Ph.D., Vanderbilt University, Professor (Philosophy)

Holt, D. Lynn, Ph.D., Vanderbilt University, Professor (Philosophy)

Moffatt, Barton, Ph.D., University of Minnesota, Associate Professor (Philosophy)

Thompson, James Robert, Ph.D., Washington University, Assistant Professor (Philosophy)

Witt, Joseph D., Ph.D., University of Florida, Assistant Professor (Religion)

Physics and Astronomy

Level 1

Afanasjev, Anatoli, Ph.D., Latvian Academy of Sciences; Latvian State University, Professor

Arnoldus, Hendrik F., Ph.D., Utrecht University, Professor and Graduate Coordinator

Berg, Matthew J., Ph.D., Kansas State University, Assistant Professor

Clay, R. Torsten, Ph.D., University of Illinois, Professor

Dunne, James A., Ph.D., The American University, Professor

Dutta, Dipangkar, Ph.D., Northwestern University, Associate Professor

El Fassi, Lamiaa, Ph.D., Mohammed V University (Morocco), Assistant Professor

Kim, Seong-Gon, Ph.D., Michigan State University, Professor

Krishnan, Sundar Rajan, Ph.D., University of Alabama, Associate Professor

Lindner, Jeffrey S., Ph.D., Mississippi State University, Research Professor

Ma, Wenchao, Ph.D., Vanderbilt University, Professor

Novotny, Mark A., Ph.D., Stanford University, Professor and Department Head

Pierce, Donna M., Ph.D., University of Maryland, Associate Professor

Rupak Lan Tai Moong, Gautam, Ph.D., University of Washington, Associate Professor

Su, Yi, Ph.D., Wayne State University, Research Professor

Tanner, Angelle M., Ph.D., UCLA, Assistant Professor

Waggoner, Charles A., Ph.D., Mississippi State University, Research Professor

Wang, Chuji, Ph.D., University of Science and Technology of China, Professor

Winger, Jeffry A., Ph.D., Iowa State University, Professor

Ye, Jinwu, Ph.D., Yale University, Associate Professor

Participant (T=Teach; C=Committee Member)

Fadavi, Mehri, Ph.D., Keele University, Staffordshire (England), Professor, Jackson State University, **C**

Gaskell, David, Ph.D., Oregon State University, Staff Scientist II, Thomas Jefferson National Accelerator Facility, **C**

Jelinek, Bohumir, Ph.D., Mississippi State University, Assistant Research Professor, Center for Advanced Vehicular Systems, MSU, **C**

McIntyre, Dustin L., Ph.D., West Virginia University, Mechanical Engineer, **C**

Park, Brent K., Ph.D., Ohio University, Associate Laboratory Director, Oak Ridge National Laboratory (ORNL), **C**

Rondon-Aramayo, Oscar A., Ph.D., Case Western Reserve University, Principal Scientist, Institute of Nuclear and Particle Physics (INPP), University of Virginia, **C**

Rykaczewski, Krzysztof Piotr, Ph.D., Warsaw University, Distinguished Staff Member, Physics Division, Oak Ridge National Laboratory, **C**

Singh, Jagdish P., Ph.D., Banaras Hindu University, Research Professor, **C**

Smith, Gregory R., PhD., University of Colorado, Senior Staff Scientist, Jefferson National Laboratory, Newport News, VA, **C**

Wesselmann, Frank R., Ph.D., Old Dominion University, Assistant Professor, Department of Physics, Xavier University of Louisiana, **C**

Political Science and Public Administration

Level 1

Chamberlain, James A., Ph.D., University of Washington, Assistant Professor

Emison, Gerald A., Ph.D., University of North Carolina at Chapel Hill, Professor

Fay, Daniel L., Ph.D., University of Georgia, Assistant Professor

French, P. Edward, Ph.D., Mississippi State University, Professor

Lu, Jiahuan, Ph.D., University of Maryland, Assistant Professor

Mellen, Robbin B. Jr., Ph.D., Washington State University, Assistant Professor

Morrison, Minion K. C., Ph.D., University of Wisconsin-Madison, Professor and Department Head, Senior Fellow in African American Studies

Park, Johann, Ph.D., Michigan State University, Assistant Professor

Rush, Christine L., Ph.D., University of Georgia, Assistant Professor and Graduate Coordinator

Shaffer, Stephen D., Ph.D., Ohio State University, Professor

Shoup, Brian D., Ph.D., Indiana University, Associate Professor

Stanisevski, Dragan, Ph.D., Florida Atlantic University, Associate Professor

Travis, Rick, Ph.D., University of Georgia, Professor and Interim Associate Dean, College of Arts & Sciences

Level 2

Gallardo Estrella, Roberto, Ph.D., Mississippi State University, Assistant Extension Professor

Participant (T=Teach; C=Committee Member)

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, Executive Director, Mississippi Department of Information Technology Services; Lecturer, **T**

Smith, Marshall Cade, Ph.D., Mississippi State University, Assistant Dean of Students/Director, Student Leadership and Community Engagement, **C**

Wiseman, William M., Ph.D., Mississippi State University, Professor (Retired), **C**

Psychology

Level 1

Adams-Price, Carolyn E., Ph.D., West Virginia University, Associate Professor

Armstrong, Kevin J., Ph.D., Illinois Institute of Technology, Associate Professor

Berman, Mitchell E., Ph.D., Kent State University, Professor and Department Head

Bradshaw, Gary L., Ph.D., Carnegie-Mellon University, Professor

Doane, Stephanie M., Ph.D., University of California, Professor

Eakin, Deborah K., Ph.D., University of Kansas, Associate Professor and Graduate Coordinator

Hood, Kristina B., Ph.D., Virginia Commonwealth University, Assistant Professor

Keeley, Jared W., Ph.D., Auburn University, Associate Professor

McKinney, Cliff, Ph.D., University of Central Florida, Associate Professor

McMillen, Robert, Ph.D., University of Georgia, Associate Professor

Moss, Jarrod, Ph.D., Carnegie Mellon University, Associate Professor

Nadorff, Daniell K., Ph.D., West Virginia University, Assistant Professor

Nadorff, Michael R., Ph.D., West Virginia University, Assistant Professor

Oliveros, Arazais, Ph.D., University of Central Florida, Assistant Professor

Sinclair, H. Colleen, Ph.D., University of Minnesota, Associate Professor

Winer, Eric Samuel, Ph.D., University of Illinois-Chicago, Assistant Professor

Level 2

Garrison, Teena M., Ph.D., Mississippi State University, Assistant Research Professor

Klein, Stephen B., Ph.D., Rutgers University, Professor

Associate

Carskadon, Thomas G., Ph.D., University of Colorado, Professor

Participant (T=Teach; C=Committee Member)

Campbell, Kristen L., Ph.D., Kent State University, Lecturer, **T**

Cross, Ginger W., Ph.D., Mississippi State University, Assistant Research Professor, SSRC, **C**

Drumheller, Philip, Ph.D., University of Mississippi, Instructor, **T**

Giesen, J. Martin, Ph.D., Kent State University, Research Professor, National Research and Training Center on Blindness and Low Vision, Mississippi State University

Williams, Carrick C., Ph.D., Michigan State University, Associate Professor, San Marcos State University, **C**

Sociology

Level 1

Allison, Rachel, Ph.D., University of Illinois at Chicago, Assistant Professor

Barranco, Raymond Edward, Ph.D., Louisiana State University, Assistant Professor

Boyd, Robert L., Ph.D., University of North Carolina-Chapel Hill, Professor

Cosby, Arthur G., Ph.D., Mississippi State University, Giles Distinguished Professor; Director, Social Science Research Center (SSRC)

Dunaway, R. Gregory, Ph.D., University of Cincinnati, Professor and Dean, College of Arts & Sciences

Hagerman, Margaret Ann, Ph.D., Emory University, Assistant Professor

Haynes, Stacy H., Ph.D., Pennsylvania State University, Assistant Professor and Graduate Coordinator

Keith, Shelley, Ph.D., Emory University, Assistant Professor

Kelly, Kimberly C., Ph.D., University of Georgia, Assistant Professor

May, David C., Ph.D., Mississippi State University, Associate Professor

Parisi, Domenico, Ph.D., Pennsylvania State University, Professor

Rader, Nicole E., Ph.D., Southern Illinois University, Associate Professor

Level 2

Crudden, Adele, Ph.D., Mississippi State University, Professor

Irizarry, Yasmiyn, Ph.D., Indiana University, Assistant Professor

Peterson, Lindsey P., Ph.D., Ohio State University, Assistant Professor

Pilkinston, Melinda Walls, Ph.D., Jackson State University, Associate Professor

Ragsdale, Kathleen,, Ph.D., University of Florida, Assistant Research Professor

Ralston, Margaret L., Ph.D., University of Missouri, Assistant Professor

Robertson, Angela A., Ph.D., Mississippi State University, Research Professor

Swindell, Marian L., Ph.D., University of Alabama, Associate Professor

Participant (T=Teach; C=Committee Member)

Bartkowski, John P., Ph.D., University of Texas at Austin, Professor of Sociology, University of Texas at San Antonio, **C**

Brunsma, David L., Ph.D., University of Notre Dame, Professor of Sociology, Virginia Tech, **C**

Cossman, Jeralynn S., Ph.D., Florida State University, Professor and Department Head, West Virginia University, **C**

Hughey, Matthew W., Ph.D., University of Virginia, Associate Professor, University of Connecticut, **C**

Schewe, Rebecca L., Ph.D., University of Wisconsin-Madison, Assistant Professor of Sociology, Syracuse University, **C**

COLLEGE OF BUSINESS

Adkerson School of Accountancy

Level 1

Addy, Noel D., C.P.A., Ph.D., University of Florida, Associate Professor

McNair, Frances, C.P.A., Ph.D., University of Mississippi, Professor and Graduate Coordinator

Rigsby, John T., C.P.A., D.B.A., Memphis State University, Associate Professor

Level 2

Carver, Brian T., Ph.D., University of Tennessee, Assistant Professor

Ennis, Kevin L., Ph.D., Jackson State University, Associate Professor

Henderson, Charlene, Ph.D., Arizona State University, Assistant Professor

Trinkle, Brad S., Ph.D., University of Alabama, Assistant Professor

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., CPA, University of New Orleans, Instructor, **T**

Finance and Economics

Level 1

Campbell, Randall C., Ph.D., Louisiana State University, Associate Professor and Graduate Coordinator (Economics)

Cline, Brandon N., Ph.D., Ph.D., University of Alabama, Associate Professor (Finance) and BancorpSouth Professor of Finance

Garner, Jacqueline L., Ph.D., Georgia State University, Associate Professor (Finance), John Nutie and Edie Dowdle Professor of Finance, and Graduate Coordinator (Finance)

Highfield, Michael J., Ph.D., CFA, University of Kentucky, Professor (Finance), Robert W. Warren Chair of Real Estate Finance, and Department Head

Liano, Kartono, Ph.D., University of Alabama, Professor (Finance) and Renasant Bank Faculty Fellow in 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, Professor (Economics) and Interim Associate Vice President & Exec Director, International Institute

Rogers, Kevin E., Ph.D., University of Georgia, Professor (Economics) and Associate Dean, College of Business

Roskelley, Kenneth D., Ph.D., University of Arizona, Associate Professor (Finance)

Thomas, M. Kathleen, Ph.D., Georgia State University, Associate Professor (Economics)

Level 2

Orozco-Aleman, Sandra L., Ph.D., University of Pittsburgh, Assistant Professor (Economics)

Spurlin, William Paul II, Ph.D., University of Mississippi, Assistant Professor (Finance)

Williamson, Claudia R., Ph.D., West Virginia University, Assistant Professor (Economics)

Participant (T=Teach; C=Committee Member)

He, Wei (Helena), Ph.D., University of New Orleans, Instructor (Finance), **T**

Henry, Thomas, II, Ph.D., Mississippi State University, Lecturer (Economics), **T**

Wiseman, Travis, Ph.D., West Virginia University, Assistant Clinical Professor (Economics), **T**

Management and Information Systems

Level 1

Barnett, Timothy R., D.B.A., Mississippi State University, Professor (Management)

Chrisman, James J., Ph.D., University of Georgia, Professor (Management) and Department Head

Crossler, Robert E., Ph.D., Virginia Tech, Assistant Professor (Information Systems)

Holt, Daniel T., Ph.D., Auburn University, Assistant Professor (Management)

Long, Rebecca G., Ph.D., Louisiana State University, Associate Dean of the Graduate School and Professor (Management)

Marett, Kent, Ph.D., Florida State University, Associate Professor (Information Systems)

Oswald, Sharon L., Ph.D., University of Alabama, Professor and Dean, College of Business

Otondo, Robert F., Ph.D., Arizona State University, Associate Professor (Information Systems) and Graduate Coordinator

Pearson, Allison W., Ph.D., Auburn University, Professor (Management)

Pearson, Rodney A., D.B.A., Harvard University, Professor (Information Systems)

Templeton, Laura Marler, D.B.A., Louisiana Tech University, Associate Professor (Management)

Vardaman, James M., Ph.D., University of Memphis, Associate Professor (Management)

Warkentin, Merrill, Ph.D., University of Nebraska-Lincoln, Professor (Information Systems) and Graduate Coordinator

Level 2

Daspit, Joshua J., Ph.D., University of North Texas, Assistant Professor (Management)

Penney, Christopher R., Ph.D., Florida State University, Assistant Professor (Management)

Randle, Vikki Natasha Wilkins, Ph.D., Jackson State University, Associate Professor (Management)

Shin, Seungjae, Ph.D., University of Pittsburgh, Associate Professor (Information Systems)

Templeton, Gary F., Ph.D., Auburn University, Associate Professor (Information Systems)

Participant (T=Teach; C=Committee Member)

Carr, Jon C., Ph.D., Mississippi State University, Associate Professor, M.J. Neeley School of Business, Texas Christian University, **C**

Lowry, Paul Benjamin, Ph.D., University of Arizona, Associate Professor of Information Systems, College of Business, City University of Hong Kong, **C**

Marett, Emily G., Ph.D., Washington State University, Instructor, **T**

Sullivan, J. H., Ph.D., University of Alabama, Professor (Retired), **C**

Marketing, Quantitative Analysis, and Business Law

Level 1

Collier, Joel E., Ph.D., University of Memphis, Associate Professor (Marketing)

Lueg, Jason E., Ph.D., University of Alabama, Professor (Marketing) and Department Head

Moore, Melissa, Ph.D., University of Connecticut, Professor (Marketing)

Moore, Robert S., Ph.D., University of Connecticut, Professor (Marketing)

Ponder, Nicole, Ph.D., University of Alabama, Professor (Marketing) and Director of Graduate Studies in Business

Level 2

Adams, Frank G., Ph.D., University of Business Administration, Assistant Professor (Marketing)

Breazeale, Michael J., Ph.D., Mississippi State University, Assistant Professor (Marketing)

Esmark, Carol Lee, Ph.D., University of Tennessee, Assistant Professor (Marketing)

Farmer, Robert Adam, Ph.D., University of Kentucky, Assistant Professor (Marketing)

Hill, William Wesley II, Ph.D., University of Alabama, Assistant Professor (Marketing)

Shanahan, Kevin J., Ph.D., New Mexico State University, Associate Professor (Marketing)

Participant (T=Teach; C=Committee Member)

Ballard, Iva B., Ph.D., Mississippi State University, Instructor (Business Quantitative Analysis), **T**

Brown, Haley M., J.D., University of Mississippi School of Law, Instructor (Business Law), **T**

Mallette, Stephanie L., J.D., University of Alabama Law School, Instructor (Business Law), **T**

Worthy, Sheri Lokken, Ph.D., Texas Tech University, Professor, Department of Financial Planning, Housing and Consumer Economics, University of Georgia, **C**

COLLEGE OF EDUCATION

Counseling, Educational Psychology, and Foundations

Level 1

Dooley, Katherine, Ph.D., University of Alabama, Professor

Elder, Anastasia D., Ph.D., University of Michigan, Associate Professor

Hall, Kimberly Renee, Ph.D., Mississippi State University, Associate Professor

Heiselt, April K., Ph.D., University of Utah, Associate Professor

Henington, Carlen, Ph.D., Texas A & M University, Associate Professor

Looby, Eugenie J., Ph.D., University of Georgia, Professor

Morse, David T., Ph.D., Florida State University, Interim Department Head, Professor, and Graduate Coordinator (EPY)

Morse, Linda W., Ph.D., Florida State University, Director, Center for Teaching and Learning and Professor

Palmer, Charles D., Ph.D., University of Arkansas, Associate Professor and Graduate Coordinator (COE)

Porter, Julia Y., Ph.D., Louisiana State University, Professor

Wong, Daniel W., Ph.D., University of Northern Colorado, Professor

Wozny, Darren A., Ph.D., Iowa State University, Associate Professor

Level 2

Abernathy, Larry Ty, Ph.D., Mississippi State University, Assistant Research Professor

Bailey, E. Ann, Ph.D., Mississippi State University, Assistant Professor

Gadke, Daniel L., Ph.D., Illinois State University, Assistant Professor

Goldberg, Rebecca M., Ph.D., University of Florida, Assistant Professor

Jackson, Deborah L., Ph.D., Mississippi State University, Assistant Professor

Justice, Cheryl A., Ph.D., University of Mississippi, Assistant Professor

McCleon, Tawny E., Ph.D., Mississippi State University, Assistant Professor

Molina, Danielle K., Ph.D., University of Michigan, Assistant Professor

Stratton, Kasee K., Ph.D., Central Michigan University, Assistant Professor

Wang, Chih-Hsuan, Ph.D., Auburn University, Assistant Professor

Wolverton, Robert E., Jr., Ed.D., Mississippi State University, Associate Professor

Associate

Bourgeois, Thomas, Ph.D., Mississippi State University, Dean of Students

Participant (T=Teach; C=Committee Member)

Crews, John E., D.P.A., Western Michigan University, Health Scientist, Centers for Disease Control and Prevention, **C**

Gainer, Donna Carol, Ph.D., University of Tennessee, Instructor, **T**, **C**

Hinton, W. Jeff, Ph.D., Mississippi State University, Associate Professor, Department of Child and Family Studies, University of Southern Mississippi, **C**

LeJeune, Bonnie J., M.Ed., University of Arkansas, Director, Deafblind Programs/Senior Research Associate, Rehabilitation Research and Training Center on Blindness and Low Vision, **T**

Reisener, Carmen D., Ph.D., University of Southern Mississippi, School Psychologist, **C**

Sparkman, Lavinia B., Ph.D., Mississippi State University, Academic Program Director, Columbia Southern University (AL), **C**

Thomas, George M., Ed.D., University of Alabama, Lecturer, **T**

Underwood, Joe Ray, Ph.D., University of Wisconsin-Madison, Professor Emeritus, **C**

Watson, Joshua C., Ph.D., University of North Carolina at Greensboro, Associate Professor, Texas A&M University-Corpus Christi, **C**

Wells, Debbie K., Ph.D., Mississippi State University, Lecturer, **T, C**

Wong Hernandez, Lucy, M.S., Hofstra University, Instructor, **T**, **C**

Curriculum, Instruction, and Special Education

Level 1

Brenner, Devon G., Ph.D., Michigan 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 and Graduate Coordinator

Harper, Sallie L., Ph.D. The University of Alabama, Associate Professor

Hopper, Peggy F., Ph.D., University of Tennessee, Associate Professor

Jayroe, Teresa B., Ph.D., Mississippi State University, Professor and Associate Dean, College of Education

Johnson, Lisa Rose, Ed.D., Arcadia University, Assistant Professor

Pope, Margaret, Ph.D., Mississippi State University, Associate Professor

Ratliff, Lindon, Ph.D., University of Mississippi, Assistant Professor

Robichaux-Davis, Rebecca R., Ph.D., Auburn University, Associate Professor

Level 2

Alley, Kathleen M., Ph.D., University of South Florida, Assistant Professor

Anthony, Kenneth V., Ph.D., Mississippi State University, Assistant Professor

Bennett, Stephanie, Ph.D., University of South Florida, Assistant Professor

Craven, Penny Paige, Ph.D., Mississippi State University, Assistant Professor

Ivy, Jessica T., Ph.D., University of Mississippi, Assistant Professor

Javorsky, Kristin, Ph.D., University of Nebraska, Assistant Professor

Johnson, Lisa Rose, Ed.D., Arcadia University, Assistant Professor

McKissick, Bethany, Ph.D., University of North Carolina at Charlotte, Assistant Professor

Miller, Nicole C., Ph.D., Mississippi State University, Assistant Professor

Moser, Kelly M., Ph.D., Mississippi State University, Assistant Professor

Shirley, Tory Swearingen, Ph.D., Mississippi State University, Assistant Professor

Walker, Ryan M., Ph.D., University of Arkansas, Assistant Professor

Participant (T=Teach; C=Committee Member)

Bennett, Kelly Ann, Ph.D., University of Mississippi, Instructor, **T**

Benton, Gary J., Ed.D., University of Alabama, Lecturer (Professor Emeritus), **T, C**

Burroughs, Charlotte D., Ph.D., Mississippi State University, Professor (Retired), **T**

Cirlot-New, Janie, M.S., University of South Alabama, Director, T.K. Martin Center for Technology and Disability, **T**

Long, Richard M., Ed.D., George Washington University, Lecturer, **T**

McGinnis, Brecken E., Ed.S., Mississippi State University, Coordinator, Student Support Services, **T**

Simons, Mariella, Ph.D., Mississippi State University, Associate Director, Mississippi Writing/Thinking Institute, **C**

Thompson, Nicole Torrence, Ph.D., The University of Georgia, Assistant Professor, University of Memphis, **C**

Warren, Shane T., Ph.D., Mississippi State University, Postdoctoral Research Associate, School of Human Sciences, Mississippi State University, **C**

Williams, Ronald, Jr., Ph.D., University of Alabama, Assistant Professor, Department of Health and Human Performance, Texas State University, **C**

Instructional Systems and Workforce Development

Level 1

Adams, James H., Ed.D., Oklahoma State University, Associate Professor

Cornelious, Linda F., Ph.D., Florida State University, Professor

Forde, Connie M., Ph.D., University of Mississippi, Professor and Department Head

Okojie, Mabel C.P.O., Ph.D., Ohio State University, Professor

Olinzock, Anthony A., Ed.D., University of Pittsburgh, Professor

Wyatt, John E., Ph.D., Southampton Institute, Associate Professor

Yu, Chien, Ph.D., Ohio State University, Professor and Graduate Coordinator

Level 2

Beriswill, Joanne E., Ph.D., Indiana University, Assistant Professor

Bowen, Marilyn D., Ph.D., Mississippi State University, Associate Research Professor

Huang, Kun, Ph.D., University of Oklahoma, Assistant Professor

Lee, Sang Joon, Ph.D., University of Georgia, Assistant Professor

Scott-Bracey, Pamela K., Ph.D., University of North Texas, Assistant Professor

Participant (T=Teach; C=Committee Member)

Abraham, Patti S., Ed.D., Mississippi State University, Lecturer, **C**

Berryhill, Amy H., Ph.D., Mississippi State University, Lead IT Consultant, **T**

Buck, Jessica L., Ph.D., Mississippi State University, Associate Professor, Department of Technology, Jackson State University, **C**

Du, Jianxia, Ph.D., University of Illinois at Urbana-Champaign, Associate Professor, **C**

McFadyen, Gary M., Ph.D., Texas A&M University, Assistant Research Professor, CAVS (Retired), **C**

Olivieri, Kathleen C., Ph.D., Mississippi State University, Lead IT Consultant, ITS, **T, C**

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

Love, Adam W., Ph.D., University of Tennessee, Associate Professor

Smith, JohnEric William, Ph.D., Auburn University, Assistant Professor

Vickers, John Bradley, Ph.D., University of Georgia, Assistant Professor

Wax, Benjamin, Jr., Ph.D., University of Mississippi, Associate Professor

Level 2

Agiovlasitis, Stamatis, Ph.D., Oregon State University, Assistant Professor

Chander, Harish, Ph.D., University of Mississippi, Assistant Professor

Holmes, Megan E., Ph.D., Michigan State University, Assistant Professor

Knight, Adam C., Ph.D., Auburn University, Assistant Professor

Lamberth, John, Ph.D., University of Southern Mississippi, Associate Professor

Pan, Zhujun, Ph.D., Louisiana State University, Assistant Professor

Pfleegor, Adam G., Ph.D., Louisiana State University, Assistant Professor

Participant (T=Teach; C=Committee Member)

Kavazis, Andreas N., Ph.D., University of Florida, Assistant Professor, School of Kinesiology, Auburn University, **C**

Educational Leadership

Level 1

Blackbourn, Richard L., Ed.D., Mississippi State University, Professor and Dean, College of Education

Blendinger, Jack G., Ed.D., University of Northern Colorado, Professor

Boggan, Matthew K., Ed.D., Nova Southeastern University, Associate Professor

Brocato, D. Kay, Ph.D., Mississippi State University, Associate Professor

Coats, Linda T., Ph.D., Mississippi State University, Professor

Davis, James E., Ed.D., Mississippi State University, Associate Professor, Graduate Coordinator, and Interim Department Head

Farmer, Angela S., Ph.D., Oakland City University, Assistant Professor

Fincher, Mark Edward, Ph.D., University of North Texas, Assistant Professor

King, Stephanie B., Ph.D., Mississippi State University, Assistant Professor

Prince, Debra L., Ph.D., Mississippi State University, Associate Professor

Stumpf, Arthur D., Ph.D., University of Missouri-Columbia, Associate Professor

Williams, Frankie K., Ph.D., University of South Carolina, Professor

Xu, Jianzhong, Ed.D., Columbia University, Professor

Level 2

Hailey, Leigh Ann, Ph.D., Mississippi State University, Assistant Clinical Professor

Taggart, Amanda, Ed.D., University of Texas at San Antonio, Assistant Professor

Wallin, Patsy K. (Penny), Ed.D., University of Southern Mississippi, Assistant Professor

Willis, Chris, Ed.D., Indiana University, Assistant Professor

Participant (T=Teach; C=Committee Member)

Adams, Joe, Ph.D., Vanderbilt University, Public Affairs Research Council of Alabama, **C**

Ayers, W. Bruce, Ed.D., East Tennessee State University, President of Southeast Community & Technical College, **T**

Bean, Suzanne M., Ph.D., University of Southern Mississippi, Director, Center for Creative Learning, Mississippi University for Women, **C**

Beaulieu, Lionel J., Ph.D., Purdue University, Director, Southern Rural Development Center, **C**

Bradberry, Randall, Ed.D., Mississippi State University, Associate Executive Director, State Board for Community/Junior Colleges, Lecturer, **T, C**

Davis, Kathleen V., Ph.D., University of South Carolina, Lecturer, **T**

Garner, Howell C., Ph.D., University of Southern Mississippi, Executive Director, Mississippi Community College Foundation, Lecturer, **C**

Ge, Lin, Ph.D., University of Connecticut, Assistant Professor, Mathematics and Statistics, **C**

Harris, Robert Vernon, Ph.D., Mississippi State University, Lecturer, **T, C**

Jackson, Elizabeth H., Ph.D., Mississippi State University, Assistant Superintendent, Neshoba County Schools, **C**

Johnson, Susan M., Ph.D. Mississippi State University, Lecturer, **T, C**

Karriem, Dinetta, Ph.D., Mississippi State University, Assistant to Dean, College of Education, Lecturer, **C**

Kelley, Martha J. M., Ph.D., Auburn University, Lecturer, **T**

Lindley, Clyde A., Ed.D, Mississippi State University, Teacher Intern Supervisor, **C**

Miller, Robert Paul, Ph.D., Mississippi State University, Lecturer, **T**, **C**

O'Mally, Jamie, Ph.D., University of Alabama, Assistant Research Professor, National Research & Training Center on Blindness and Low Vision, **T**

Perkins, T. Fred, Ed.D., Mississippi State University, Lecturer, **C**

Poss, Randle O., Ph.D., University of Mississippi, Superintendent, Winona, MS, School District, **C**

Ray, Michael B., Ph.D., Mississippi State University, Assistant Principal, Starkville, MS, High School, **C**

Ricciardi, Patricia Diane, Ph.D., University of South Carolina, Lecturer, **T**

Rubisoff, Charles Thomas, LL.M., University of Miami School of Law, J.D., University of Mississippi School of Law, **C**

Scaggs, William F., Ed.D., University of Florida, Adjunct Faculty, **C**

Sewell, Beth H., Ed.D., Mississippi State University, Lecturer **T**, **C**

Stonecypher, Wayne, J.D., Mississippi College School of Law, Lecturer, **C**

Tincher-Ladner, Lynn, Ph.D., Mississippi State University, Chief Information and Research Officer, **C**

Wade, William Carroll, Ed.D., Mississippi State University, Lecturer, **T**

West, Debra, Ph.D., Mississippi State University, Deputy Executive Director for Programs and Accountability, Mississippi State Board for Community & Junior Colleges, **C**

BAGLEY COLLEGE OF ENGINEERING

Aerospace Engineering

Level 1

Baskes, Michael I., Ph.D., California Institute of Technology, Professor

Bhatia, Manav, Ph.D., University of Washington, Assistant Professor

Cheng, Yang, Ph.D., Harbin Institute of Technology (China), Associate Professor

Cinnella, Pasquale, P.E., Ph.D., Virginia Polytechnic Institute and State University, Professor

Janus, J. Mark, Ph.D., Mississippi State University, Associate Professor and Graduate Coordinator

Jha, Ratneshwar, Ph.D., Arizona State University, Professor and Director, Raspet Flight Research Laboratory

Koenig, Keith, P.E., Ph.D., California Institute of Technology, Professor

Lacy, Thomas E., P.E., Ph.D., Georgia Institute of Technology, Professor and Interim Head

Messac, Achille, Ph.D., Massachusetts Institute of Technology, Professor

Motoyama, Keiichi, Ph.D., University of Tsukuba (Japan), Research Professor

Newman, James C., Jr., Ph.D., Virginia Polytechnic Institute and State University, Professor & Endowed Chair

Rais-Rohani, Masoud, P.E., Ph.D., Virginia Polytechnic Institute and State University, Associate Dean and Professor

Sescu, Adrian, Ph.D., University of Toledo, Assistant Professor

Sullivan, Rani W., Ph.D., Mississippi State University, Associate Professor

Thompson, David S., Ph.D., Iowa State University, Professor and Endowed Professorship

Level 2

Weed, Richard A., Ph.D., Georgia Institute of Technology, Associate Research Professor

Participant (T=Teach; C=Committee Member)

Aliabadi, Shahrouz K., Ph.D., University of Minnesota, Professor, Department of Computer Engineering & Computer Science, Jackson State University, **C**

Bednarcyk, Brett A., Ph.D., University of Virginia, Materials Research Engineer, NASA Glenn Research Center, **C**

Chen, Jen-Ping, Ph.D., Mississippi State University, Associate Professor, Ohio State University, **C**

Hannigan, Thomas, III, M.S., Mississippi State University, Instructor, **C**

Murray, Nathan E., Ph.D., University of Mississippi, Research Scientist II, National Center for Physical Acoustics and Research Professor, University of Mississippi, **C**

Myers, Oliver J., Ph.D., University of Maryland, Associate Professor of Mechanical Engineering, Clemson University, **C**

Newman, James C., III, Ph.D., Virginia Polytechnic Institute and State University, Professor, University of Tennessee, Chattanooga, **C**

Olsen, Gregory, Ph.D., University of Texas, Austin, Instructor, **T**, **C**

Olsen, Carrie D., Ph.D., University of Texas, Austin, Chief, Guidance, Navigation and Mission Analysis, NASA-Marshall Spa Flight Center, **C**

Richards, W. Lance, Ph.D., University of Wales (UK), Senior Research Engineer, NASA Dryden Flight Research Center, **C**

Rizk, Magdi, Ph.D., California Institute of Technology, Principal Tech. Advisor for CFD, **C**

Roy, Samit, Ph.D., Virginia Polytechnic Institute & State University, William D. Jordan Professor of Aerospace Engineering and Mechanics, University of Alabama, **C**

Talreja, Ramesh, Ph.D., Technical University of Denmark, Tenneco Professor, Texas A&M University, **C**

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Agricultural and Biological Engineering

Level 1

Cathcart, Thomas P., Ph.D., University of Maryland, Professor

Elder, Steven H., Ph.D., University of Michigan, Professor

Gilbert, Jerome, Ph.D., Duke University, Professor, Provost and Executive Vice President

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Liao, Jun, Ph.D., Cleveland State University, Assistant Professor

Linhoss, Anna C., Ph.D., University of Florida, Assistant Professor

Parajuli, Prem B., Ph.D., Kansas State University, Assistant Professor and Graduate Coordinator (Agriculture)

Paz, Joel O., Ph.D., Iowa State University, Associate Professor

Pote, Jonathan W., Ph.D., University of Arkansas, Professor and Department Head

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Purswell, Joseph L., Ph.D., University of Kentucky, Agricultural Engineer, USDA-ARS Poultry Research Unit Lead Scientist

Schmidt, Amy M., Ph.D., Mississippi State University, Assistant Extension Professor

Simpson, Chartrisa LaShan, Ph.D., Clemson University, Assistant Professor

Srinivasan, Radhakrishnan, Ph.D., University of Illinois at Urbana-Champaign, Assistant Research Professor

Tagert, Mary Love M., Ph.D., Mississippi State University, Assistant Research Professor

To, Filip Suminto D., Ph.D., Mississippi State University, Professor

Ward, Jason K., Ph.D., Mississippi State University, Assistant Extension Professor

Warnock, James Neill, Ph.D., University of Birmingham (United Kingdom), Associate Professor and Associate Dean

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Biomedical Engineering

Level 1

Burgreen, Greg W., Ph.D., Old Dominion University, Associate Research Professor

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Elder, Steven H., Ph.D., University of Michigan, Professor and Graduate Coordinator

Gilbert, Jerome A., Ph.D., Duke University, Professor, Provost and Executive Vice President

King, Roger L., Ph.D., University of Wales, Professor and Director, CAVS

McLaughlin, Ron, D.V.M., University of Missouri-Columbia, Professor

Ryan, Peter L., Ph.D., University of Guelph, Professor and Associate Provost

To, Filip Suminto D., Ph.D., Mississippi State University, Associate Professor

Level 2

Cooper, Robert C., D.V.M., Auburn University, Professor

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School of Chemical Engineering

Level 1

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Hill, Priscilla J., Ph.D., University of Massachusetts, Associate Professor

Keith, Jason M., Ph.D., University of Notre Dame, Professor, Earnest W. Deavenport, Jr. Chair, and Dean, College of Engineering

Kundu, Santanu, Ph.D., Clemson University, Assistant Professor

Rai, Neeraj, Ph.D., University of Minnesota, Assistant Professor

Toghiani, Hossein, Ph.D., University of Missouri, Associate Professor and Endowed Professor

Walters, Keisha B., Ph.D., Clemson University, Associate Professor

Level 2

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Associate

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George, Clifford E., Ph.D., Mississippi State University, Professor Emeritus, Lecturer, **C**

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White, Mark G., Ph.D., Rice University, Research Professor, **C**

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Civil and Environmental Engineering

Level 1

El-adaway, Islam H., Ph.D., Iowa State University, Associate Professor

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Howard, Isaac L., Ph.D., E.I., University of Arkansas, Assistant Professor

Magbanua, Benjamin S., Jr., Ph.D., P.E., Vanderbilt University, Associate Professor

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Truax, Dennis D., Ph.D., P.E., DEE, F.ASCE, Mississippi State University, Professor, James T. White Chair, and Department Head

Vahedifard, Farshid, Ph.D., University of Delaware, Assistant Professor

White, Thomas D., Ph.D., P.E., Purdue University, Professor

Zhang, Li, PhD., P.E., Virginia Polytechnic Institute and State University, Associate Professor

Level 2

Caprano, Craig D., Ph.D., Marquette University, Professor & Director, Building Construction Science

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Computational Engineering

Level 1

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Computer Science and Engineering

Level 1

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Hansen, Eric, Ph.D., University of Massachusetts, Associate Professor

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Luke, Edward Allen, Ph.D., Mississippi State University, Associate Professor

Perkins, Andy D., Ph.D., University of Tennessee, Associate Professor

Ramkumar, Mahalingam, Ph.D., New Jersey Institute of Technology, Associate Professor

Reese, Donna S., Ph.D., Texas A&M University, Professor and Department Head

Swan, J. Edward, II, Ph.D., The Ohio State University, Professor

Vaughn, Rayford B., Jr., Ph.D., Kansas State University, William L. Giles Distinguished Professor and Associate Vice President for Research

Williams, Byron J., Ph.D., Mississippi State University, Assistant Professor

Zhang, Song, Ph.D., Brown University, Associate Professor

Level 2

Crumpton, Joseph J., Ph. D., Mississippi State University, Assistant Research Professor

Glendowne, Dae Jared, Ph.D., Mississippi State University, Assistant Research Professor

McGrew, Robert Wesley, Ph.D., Mississippi State University, Assistant Research Professor

Mohanty, Somya Darsan, Ph.D., Mississippi State University, Assistant Research Professor

Pape, Patrick R., Ph.D., Auburn University, Assistant Research Professor

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Participant (T=Teach; C=Committee Member)

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Dean of Engineering

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Electrical and Computer Engineering

Level 1

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Level 2

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Industrial and Systems Engineering

Level 1

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Mechanical Engineering

Level 1

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Krishnan, Sundar R., Ph.D., University of Alabama, Assistant Professor

Liu, Yucheng, Ph.D., University of Louisville, Associate Professor

Luck, Rogelio, Ph.D., Pennsylvania State University, Professor

Lugo, Marcos, Ph.D., Mississippi State University, Assistant Research Professor

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Marcum, David L., Ph.D., Purdue University, Professor

Oppedal, Andrew L., Ph.D., Mississippi State University, Assistant Research Professor

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Level 2

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COLLEGE OF FOREST RESOURCES

Forestry

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Level 2

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Sustainable Bioproducts

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Wildlife, Fisheries and Aquaculture

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COLLEGE OF VETERINARY MEDICINE

Basic Sciences

Level 1

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Level 2

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Clinical Sciences

Level 1

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Level 2

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Associate

Thames, Brittany E., D.V.M., Mississippi State University; M.P.H., University of Southern Mississippi

Participant (T=Teach; C=Committee Member)

Costa, Lais, Ph.D., Louisiana State University, Equine Internist, **C**

Frondoza, Carmelita G., Ph.D., Johns Hopkins University, Director, Research and Development, NutraMax Laboratories, Inc., Associate Professor, Johns Hopkins University School of Medicine, **C**

Griffin, Brenda, D.V.M., University of Georgia, Adjunct Associate Professor, College of Veterinary Medicine, University of Florida, **C**

Pasquali, Marzia, Ph.D., University of Parma (Italy), Professor of Pathology; Medical Director, University of Utah School of Medicine, **C**

Wardlaw, Jennifer L., D.V.M., University of Missouri College of Veterinary Medicine, Veterinary Surgeon, **C**

Pathobiology and Population Medicine

Level 1

Bailey, R. Hartford, Ph.D., Texas A & M University, Professor

Hoblet, Kent H., D.V.M., M.S., The Ohio State University, Professor and Dean, College of Veterinary Medicine

Huston, Carla L., D.V.M., Ph.D., Ohio State University, Associate Professor

Jack, Sherman W., D.V.M., The Ohio State University; Ph.D., Ohio State University, Professor

Pace, Lanny W., D.V.M., Mississippi State University; Ph.D., Louisiana State University, Professor

Ryan, Peter L., Ph.D., University of Guelph, Professor and Associate Provost

Smith, David R., Ph.D., D.V.M., Ohio State University, Professor

Wills, Robert W., D.V.M., University of Missouri at Columbia; Ph.D., Iowa State University, Professor

Level 2

Austin, Frank W., D.V.M., Ph.D., Louisiana State University, Associate Professor

Banda, Alejandro, D.V.M., National University of Mexico, Ph.D., University of Georgia, Associate Clinical Professor

Baughman, Brittany, D.V.M., Mississippi State Univesity, Assistant Clinical Professor

Baumgartner, Wes A., Ph.D., Louisiana State University, D.V.M., University of Illinois, Urbana, Assistant Professor

Brett, James A., D.V.M., Mississippi State University, Assistant Clinical Professor

Bulla, Camilo, Ph.D., Universidade Estadual Paulista Júlio de Mesquita Filho (Brazil), Associate Professor

Christiansen, David L., D.V.M., Ph.D., Mississippi State University, Assistant Professor

Cooley, Avery James, D.V.M., University of Georgia, Professor

Cummings, Timothy S., D.V.M., Mississippi State University, Clinical Professor

Epperson, William Boyd, D.V.M., The Ohio State University, Professor and Department Head

Fleming, Sherrill, D.V.M., University of Guelph, Associate Professor

Gaunt, Patricia S., D.V.M., Ph.D., Louisiana State University, Associate Professor

Genova, Suzanne G., D.V.M., M.S., Oklahoma State University, Assistant Clinical Professor

Griffin, Matthew J., Ph.D., Mississippi State University, Assistant Research Professor

Hopper, Richard M., D.V.M., Auburn University, Professor

Hubbard, Sue Ann, D.V.M., M.S., Mississippi State University, Clinical Professor

Johnson, Melanie E., D.V.M., Ph.D., University of Georgia, Assistant Clinical Professor

Jones, Kelli Holloway, D.V.M., Louisiana State University, Assistant Clinical Professor

Khaitsa, Margaret, Ph.D., Ohio State University, Professor

Khoo, Lester H., V.M.D., University of Pennsylvania; Ph.D., North Carolina State University, Professor

Magee, Danny L., D.V.M., Auburn University; M.A.M., University of Georgia, Clinical Professor

Mauel, Michael J., Ph.D., Oregon State University, Associate Professor

Meiring, Richard W., D.V.M., The Ohio State University, Clinical Professor and Assistant Dean, College of Veterinary Medicine

Morgan, Timothy W., D.V.M., University of Missouri College of Veterinary Medicine, Ph.D., Iowa State University, Associate Professor

Olivier, Alicia Kathleen, Ph.D., Iowa State University, Assistant Professor

Smith, Jack D., D.V.M., Mississippi State University, Associate Professor

Participant (T=Teach; C=Committee Member)

Ballweber, Lora Richard, D.V.M., Oregon State University and Washington State University, Associate Professor, College of Veterinary Medicine & Biomedical Sciences, Colorado State University, **C**

Burgess, Jennifer K. L., D.V.M., University of Tennessee College of Veterinary Medicine, Clinical Instructor, **T**

Byrd, James Allen, D.V.M., Ph.D., Texas A&M University, Research Microbiologist and Project Leader, USDA-ARS, **C**

Colitz, Carmen Maria H., D.V.M., Ph.D., University of Tennessee, Veterinary Ophthalmologist, **C**

Cunningham, Fred L., D.V.M., Mississippi State University, Project Leader-Supervisory Research Biologist, **C**

Erickson, Galen E., Ph.D., University of Nebraska, Professor, Animal Sciences, University of Nebraska, **C**

Hanson, Terrill R., Ph.D., Auburn University, Professor, Department of Fisheries and Allied Aquacultures, Auburn University, **C**

Momen, Nausheen, Ph.D., Kent State University, Staff Psychologist, Naval Hospital, Yokosuka, Japan, **C**

O'Hara, Todd M., D.V.M., Ph.D., University of Wisconsin, Associate Professor, University of Alaska, **C**

Olsen, Eric Vincent, Ph.D., Auburn University, Director, Clinical Research Laboratory, Keesler AFB, MS, **C**

Peterson, Brian C., Ph.D., University of Idaho, Research Physiologist, USDA-ARS, **C**

Rashmir-Raven, Ann, D.V.M., University of California-Davis, Associate Professor, Michigan State University, **C**

Samuelson, Don Arthur, Ph.D., University of Florida, Professor, College of Veterinary Medicine, University of Florida, **C**

Wise, David, Ph.D., Clemson University, Aquaculture Specialist, Delta Research and Extension Center, **C**

Other Information

This section of the Graduate Catalog provides information on a variety of topics, including the University campuses; consortia in which the University is a member; contact information for the Graduate School; course numbering information; University policies related to FERPA, Nondiscrimination, and Equal Opportunity; Graduate School Mission and History; University Mission and Vision; and University officers.

Campuses

Starkville Campus

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

Meridian Campus

Mississippi State University-Meridian is a regional, upper-division, degree-granting campus of Mississippi State University (MSU). Located in east-central Mississippi, the campus is non-residential and provides site-based credit and non-credit coursework. Courses are taught by highly qualified faculty, who are experts in their fields. Junior, senior, and graduate-level courses offered at MSU-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 through small classes, 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.

MSU-Meridian serves as a proud representative of the University's heritage as "the people's University" and of its commitment of providing quality higher education through the mission of teaching, 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 Riley Campus is located in the heart of Meridian's downtown area, off 22nd Avenue and 5th Street, where the Division of Business is housed in the Deen building and the Kinesiology program is housed in the Rosenbaum building. The Riley Campus is also home to the Riley Center for Education and Performing Arts.

Teleclassrooms

Interactive "video conference classrooms" allow students on the Meridian and Starkville campuses 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 the Phil Hardin Foundation Library on the College Park Campus and the Riley Campus, support 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.

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.

Degrees

For graduate degrees (all or in part) offered at MSU-Meridian, please refer to the section titled Degrees and Majors Offered (http://catalog.msstate.edu/graduate/degrees-majors-offered).

Consortia

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

Mississippi-Alabama Sea Grant Consortium (M-ASGC)

The Mississippi-Alabama Sea Grant Consortium is a research, educational, and service group including

- Mississippi State University,
- the University of Mississippi,
- the University of Southern Mississippi,
- the University of Alabama (Tuscaloosa),
- the University of Alabama (Birmingham),
- the University of South Alabama,
- Auburn University,
- Tuskegee Institute, and
- the Gulf Coast Research Laboratory.

The Consortium was initiated by Mississippi State University, the University of Mississippi, and the University of Southern Mississippi in 1970 with both state and federal funding. It currently operates with approximately $1,100,000 per year and has research, education, and advisory service programs in marine law, fisheries, environment, and engineering. Graduate students are involved in the Consortium's

research programs in the same manner as in other funded research with the University. Faculty members working through the Consortium work in conjunction with faculty members at the other institutions; thus, opportunity for multidisciplinary, multi-university cooperation is provided. In September 1982, member institutions of MASGC were designated as Sea Grant Colleges “for sustained excellence in research, education, and public service dedicated to wise use of America’s marine resources.” The MASGC Consortium program is managed by a full-time director who is responsible to an administrative council appointed by the heads of the member institutions. The Consortium offices are located at the Gulf Coast Research Laboratory, Ocean Springs, MS 39564.

Mississippi Research Consortium (MRC)

The Mississippi Research Consortium aims to develop and sustain nationally competitive research programs in the state of Mississippi. Alongside supporting basic and applied research, the consortium has several additional goals: first, to increase public awareness of science, engineering, and mathematics at all educational levels to develop a scientifically literate citizenry who can fuel the science and engineering industry in Mississippi with the state's own human resources; second, to establish and maintain a solid scientific infrastructure in our university system by developing equipment and facility resources, collaboration resources, private sector links, and federal laboratory partnerships; and, third, to expand the state's economic opportunities through technology and knowledge transfer, including greater commercialization, increased technical assistance, and the education of a workforce that can support technology-based industries.

Formed in 1986, the Mississippi Research Consortium (MRC) includes Mississippi's four research universities: Jackson State University, Mississippi State University, the University of Mississippi, and the University of Southern Mississippi. The MRC's Board of Directors is made up of the Chief Research Officers from these institutions. The board serves as the Science and Technology Research Advisors to both the Executive Branch and the Legislature and integrates science and technology initiatives with economic development plans in Mississippi. The creation of the Mississippi Universities Research Authority (MURA) Act of 1992 was the product of the collaboration among the MRC, MRC Technology Transfer Task Force, and the Board of Trustees of State Institutions of Higher Learning.

The MRC's member institutions work from an attitude of mutual respect and trust. All agree that their individual institutions have secured more resources by combining efforts than any one of them could have accomplished independently. This cooperative attitude has been successfully conveyed to faculty members, who often initiate collaborative efforts and recommend that certain proposals are directed through MRC. Generally speaking, the MRC operates by forming faculty teams from several universities to address research opportunities. The organization has received praise from the National Science Foundation and others, and has been cited as a national model for how best to form a state science and technology infrastructure. Often MRC works with all of the state's eight public universities and the UM medical center to strengthen research components.

Not long after its inception, MRC became involved not only with joint research actitvities but also with human resource development programs and science policy at both the state and national levels.

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.

University Space Research Alliance (USRA)

As part of USRA's governance structure, Mississippi State University is one of 105 Ph.D.-granting universities that help oversee USRA to ensure that it meets its public purpose. Member universities ensure broad public oversight of the corporation as it pursues its non-profit purpose of "development and application of space-related science, technology, and engineering." The member universities elect an independent board of directors which governs USRA and appoints the USRA president. University members receive no direct benefit from membership. Their oversight is provided solely as a public service, and all USRA activities are conducted without bias or preference.

Interuniversity Consortium for Political and Social Research (ICPSR)

ICPSR seeks research data and pertinent documents from researchers, including PIs, research agencies, and government entities. ICPSR processes, preserves, and disseminates the data and documents. ICPSR also provides education, training, and instructional resources to help users understand and analyze research. http://www.icpsr.umich.edu/icpsrweb/content/membership/index.html.

Institute for Mathematics and its Applications (IMA)

IMA connects scientists, engineers, and mathematicians in order to address scientific and technological challenges in a collaborative and engaging environment, developing transformative new mathematics and exploring its applications while training the next generation of researchers and educators. http://www.ima.umn.edu/about/

Contact Information

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 graduation admissions, application status, academic records, degree audits, and assistantships.

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, registration problems, and online graduation application.

Assistantships
Please contact the Office of the Graduate School or the appropriate office/department offering assistantships.

Financial Aid
Student Financial Aid
Box 6035
Garner Hall
Mississippi State, MS 39762
Website**:** www.sfa.msstate.edu
Telephone: 662-325-2450
For information regarding Mississippi State University financial holds, billing, and account balance.

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

International Services
International Institute
Box 9742
116 Allen Hall
Mississippi State, MS 39762
Website: www.admissions.msstate.edu/international
Email: International@msstate.edu
Telephone: 662-325-8929
For information regarding Mississippi State University Immigration Orientation, I-20s, and DS2019.

Course Numbering Information

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/HI 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.

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.

Certificate Programs

A department or similar administrative unit may offer a certificate at the undergraduate, graduate, or combined levels. The certificate indicates that the student took a minimum of 12 hours of courses in an approved certificate area. 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
- Gerontology. Coordinator: Dr. Joe Wilmoth. E-mail: jwilmoth@humansci.msstate.edu
- Information Assurance Professional Certificate. Coordinator: Dr. David Dampier. E-mail: dampier@cse.msstate.edu
- Manufacturing. Coordinator: Contact Ms. Rita Burrell. Email: rburrell@bagley.msstate.edu
- Materials Engineering. Coordinator: Dr. Judith Schneider. E-mail: schneider@me.msstate.edu (Schneider@me.msstate.edu)
- Public Design. Coordinator: David Perkes. E-mail: dperkes@caad.msstate.edu
- Six Sigma. Coordinator: Contact Ms. Rita Burrell. E-mail: rburrell@bagley.msstate.edu
- Teaching of English to Speakers of Other Languages (TESOL). Coordinator: Dr. Wendy Hurd. E-mail: wjh159 (wjh159@msstate.edu)@msstate.edu (gbp31@msstate.edu)
- Veterans' Certificate Program. Coordinator: Dr. LindaCornelious. E-mail: lcornelious@colled.msstate.edu (LCornelious@colled.edu)

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 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). A GPA of 3.00 on the minor coursework is required. 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).

Equal Opportunity Statement

Mississippi State University is firmly committed to Equal Employment Opportunity, Affirmative Action, and compliance with all Federal, State, and local laws that prohibit employment discrimination. Discrimination based on race, color, ethnicity, sex (including pregnancy and gender identity), religion, national origin, disability, age, sexual orientation, genetic information, status as a U.S. veteran and or any other status protected by state or federal law is prohibited in all employment decisions including, but not limited to, recruitment, employment, training, promotion, compensation, benefits, disciplinary actions, and termination. All personnel actions are administered without regard to the above factors and are based only on valid job requirements.

Mississippi State University will take affirmative action to recruit, employ, and advance minorities, women, qualified individuals with disabilities, disabled veterans, recently separated veterans, Armed Forces service medal veterans, and other protected veterans.

Employees of and applicants to Mississippi State University will not be subject to harassment, intimidation, threats, coercion, or discrimination because they have engaged or may engage in any of the following activities: (1) filing a complaint; (2) assisting or participating in a review, investigation, compliance evaluation, hearing or any other activities related to the administration of Section 503 of the Rehabilitation Act of 1973 (Section 503), the provisions of the Vietnam Era Veterans' Readjustment Assistance Act or 1974 (VEVRAA), or any Federal, State,

or local law regarding EEO for qualified individuals with disabilities or qualified protected veterans; (3) opposing any act or practice made unlawful by section 503, VEVRAA, or their implementing regulations or any other Federal, State, or local law requiring equal opportunity for qualified individuals with disabilities or qualified protected veterans; or (4) exercising any other right protected by section 503, VEVRAA or their implementing regulations.

Mississippi State University has developed a written Affirmative Action Program which includes an audit and reporting system. In order to ensure implementation of the University's Affirmative Action Program, Judy Spencer is designated as the EEO/AA Coordinator for Mississippi State University.

The Affirmative Action Program is available for inspection by any employee or applicant for employment upon request during office hours at the Office of Human Resources Management. For additional information, concerning the University's Equal Opportunity and Affirmative Action Program, please call 662-325-3713.

Graduate School Mission and History

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;
- provide graduate students with opportunities for professional development; and
- provide graduate students and faculty with an environment conducive to learning and scholarly activities.

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

History and Organization

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

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

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

In 1960 a new MSU president modified the administrative infrastructure, positioning the University to make successful proposals for fellowships, research equipment and facilities, and faculty research support awards. The Office of Research and Graduate Studies was created, headed by the Dean of the Graduate School and Coordinator of Research. A strong Graduate Council was established to enforce quality criteria for existing graduate programs and ensure adherence to criteria by proposed new programs. All graduate programs received approval from the Graduate Council, the Academic Council, the President, and the Board of Trustees of the Mississippi Institutions of Higher Learning. Graduate programs flourished with support from the competitive institutional fellowship award programs funded by National Science Foundation (NSF), National Aeronautical Space Administration (NASA), the Office of Education, and Department of Defense (DOD). New doctoral faculty were recruited, the contract research program expanded, and additional doctoral programs, specialized institutes, and centers were approved. The title of Dean of the Graduate School and Coordinator of Research was changed to Vice President for Research and Graduate Studies in 1969; the Associate Dean became Dean of the Graduate School.

In 1987 due to the expanding research activity and the increase in graduate enrollment, the Graduate School was separated from the Office of Research and reported administratively to the Office of the Provost. In 1999 in a move to simplify graduate admissions and day-to-day operational matters the Graduate School as such was abolished and replaced by an Office of Graduate Studies with a Director reporting to the Office of the Provost. In July 2004 the Office of Graduate Studies was realigned with the Office of Vice President for Research and Graduate Studies. In July 2006 the Office of Graduate Studies resumed reporting to the Office of the Provost, and the Director’s title was changed to Dean and Associate Vice President for Academic Affairs. In 2007 the name was changed to the Graduate School.

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

MSU is a member institution of the Council of Graduate Schools in the U.S. and the Conference of Southern Graduate Schools. Through active participation in these bodies, the leadership for graduate studies at MSU is involved with national developments, including federal programs supporting graduate education and research. The current research expenditures at MSU exceed $100 million per year, a significant

portion of which is support for graduate research assistants. Teaching assistantships are available in most academic departments.

HEOA Disclosure Statements

Mississippi State University's Federal Disclosure Requirements are available from the University web site at http://www.provost.msstate.edu/heoa. The Higher Education Opportunity Act report contains the following information:

- Campus Security: Jeanne Clery Disclosure for Campus Security, campus crime statistics, Campus Sex Crime Prevention Act, and Fire Safety
- Campus Emergency Procedures
- Drug and Alcohol Policies
- Financial Aid Information and Cost of Attendance
- Health and Safety Information: immunization and missing persons information
- Institutional Information: accreditation, characteristics of students, degree programs, degree program improvement plans, disability support services, FERPA information, retention and graduation rates, peer-to-peer file sharing, post-graduate employment information, readmission of veterans, transfer credit, withdrawal procedures, voter registration, and satisfactory progress standards.

University Mission and Vision

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.

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.

University Officers

President's Cabinet / Officers of the University

Name	Title
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Mississippi Board of Trustees of State Institutions of Higher Learning

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The Board maintains offices at 3825 Ridgewood Road, Jackson, Mississippi.

Student Life

Student life is a very important part of the university experience. The University provides a variety of services and activities that promote graduate students' personal development through engagement in critical thinking, self-awareness, and healthy lifestyle choices in a dynamic and diverse environment. Many of these opportunities, activities, and services are detailed under this Student Life section of the Graduate Catalog.

Assessment and Testing

The Office of Assessment and Testing Services (Computer Based Testing) serves as the University's testing center for national standardized computer-based and paper/pencil tests such as ACT, CLEP, GMAT, GRE, Praxis, LSAT, MCAT, MAT, and TOEFL. Registration information can be obtained from the Office's website (http://www.ats.msstate.edu/testing) . Visit the Office in Rice Hall at 180 Magruder Street or call 662-325-6610 for additional information.

Books and Supplies

Mississippi State University leases its bookstore to Barnes & Noble to provide textbooks and related supplies to the students, faculty, and staff. As a benefit of this arrangement, a percentage of the sales is returned to the University each year which is used for, among other items, scholarships, faculty increases, and departmental support. The bookstore's retail areas also include clothing, gifts, electronics, and trade books and offers in excess of 20,000 general reading and reference titles. The store features a Starbucks Café and is located at Cullis Wade Depot. For detailed information contact the bookstore by phone at 662-325-1576 or via their website (http://msstate.bncollege.com).

Dining Services

MSU Dining offers a number of dining choices throughout campus. For locations, go to http://msstatedining.campusdish.com/Locations.aspx.

Burger King
Einstein Bros Bagels
Fresh Food Company
JUVA
McArthur Café
Marketplace at Perry
Moe's Southwest Grill
P.O.D. Express of Allen Hall
P.O.D. Express at Hathorn
Pegasus Dining Dining Room
Subway
Templeton RFoC
Union Food Court:

- Burrito Bowl
- Chick-Fil-A
- P.O.D. Market
- Panda Express
- Pizza Hut Express
- P.O.D. Market
- Starbucks
- The State Fountain Bakery

The Village
MSU Catering, contact at 662-325-3663 or http://msstatedining.campusdish.com/Catering.aspx

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 (http://www.msstatedining.com) or telephone 662-325-0923.

Graduate Student Association

The Graduate Student Association (GSA) (http://grad.msstate.edu/current/orgs/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 (http://www.grad.msstate.edu).

Health Services

The Health Education and Wellness Department provides resources and educational programs to Mississippi State students. Topics covered by the department include

- alcohol and drug education,
- tobacco cessation,
- stress management,
- mental health,
- cancer awareness,
- men and women's general health issues,
- sexual health and responsibility,
- nutrition,
- fitness and
- sexual assault.

The department assists students to make healthier choices to improve their MSU experience through a variety of free services. Through the Goal-driven Alcohol drug Intervention Network (G.A.I.N.) program, students are educated about making wise choices concerning alcohol consumption. Students recovering from substance abuse, behavioral and process addictions or eating disorders will find the support and resources they need within the Collegiate Recovery Community. A registered dietitian is available for appointments, and programs and tobacco cessation sessions are free to all students, faculty, and staff. The department supports and promotes the healing, renewal, safety, and justice for survivors of dating violence, domestic violence, sexual assault, and stalking through education, awareness, and advocacy efforts as well.

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

Student Health Center

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 or by email at health@msstate.edu.

Student Health Insurance

International Students

The Student Health Insurance Plan is required for international students. International students are enrolled when the student enrolls for classes at MSU. International students who have alternate insurance equivalent to the MSU Plan and meet the coverage requirement of the Affordable Care Act of 2010 may request a waiver from the MSU Plan. Such waiver request is to be submitted by the 10th day of class to the Director of The Student Health Center at Room 361 of The Student Health Center. The telephone number is 662-325-5895.

Domestic Students

Domestic students may enroll in the Student Health Insurance Plan. The plan is compliant with The Affordable Care Act of 2010. Information about the plan is available at www.health.msstate.edu under the Student Health Center Insurance link. The telephone number is 662-325-5895.

Student Counseling Services

Student Counseling Services, located in 115C Hathorn Hall, offers a variety of clinical and consultation services free to 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, and psychology who are knowledgeable in facilitating personal growth and development. Student Counseling Services offers individual and group counseling, referral for psychiatric evaluations and medication management, workshops, and walk-in urgent care. Consultation regarding student concerns is available to concerned faculty, staff, students, and family members. For more information about services, please visit the Student Counseling Services website at http://www.health.msstate.edu/scs.

The Sexual Assault Response Team (SART) is a service of Student Counseling Services. SART responds to sexual assaults through crisis response, assessment, advocacy, and provides consultation and referral for the victim and the accused. SART is available to help anyone who reports a violation of the sexual assault policy. The SART includes a coordinator and designated individuals from the University Police Department, the Longest Student Health Center, the Department of Housing & Residence Life, the Dean of Students Office, and Student Counseling Services. For information or to report a sexual assault, students and members of the University community may contact the SART Coordinator or the Victim Advocate at Student Counseling Services at 662-325-2091.

Housing Services

Interim Director: Fred Mock
Herbert Hall Room 118
Box 9502
Mississippi State, MS 39762
Phone: 662-325-3555
Fax: 662-325-4663
Email: housing@saffairs.msstate.edu
Website: h (http://www.housing.msstate.edu/apply)ttp://my.housing.msstate.edu

Residence Hall Facilities

MSU provides living accommodations for approximately 4,500 students (standard capacity is two students per room). These accommodations include a limited number of private rooms for upper-classmen 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 housing. A student must first be admitted to the University before applying for housing. A non-refundable $75.00 application fee is required. For more information, visit the website at h (http://www.housing.msstate.edu/apply)ttp://my.housing.msstate.edu, call 662-325-3555, or email housing@saffairs.msstate.edu.

Information Technology

The Office of the CIO and Information Technology Services (ITS) deliver a rich, robust, and capable information technology environment to all students, faculty, and staff in support of the learning, research, and service missions of the institution. An expansive wired and wireless campus network spans over two hundred academic and administrative buildings, all residence halls, and many outdoor areas. The network links hundreds of large-scale computer systems and servers with thousands of desktop, laptop, and mobile devices. Access to remote branches of the University, as well as the Mississippi Optical Network, Internet, and Internet 2, is provided through high-speed, wide-area connections from the campus network. ITS also provides a wide array of information resources and services to the University community. These resources include BullyMail, the student email system; Exchange, the faculty/staff email system; myState, the University's Web portal; and myCourses, MSU's learning management system for online and distance learning. Open access computer labs in Griffis Hall, the Learning Center, and Mitchell Memorial Library are available to all students, while a number of departmental computer labs are available to students in specific disciplines. An H.323 network facilitates real-time, interactive video classes and video conferencing from the campus to sites throughout the state, the region, and the world. Additionally, ITS makes available a large and growing number of classrooms equipped with state-of-the-art instructional technology to facilitate and enhance classroom instruction. Finally, a number of software packages such as Autodesk, Camtasia, and Microsoft Office are available at no cost for installation and use on student, faculty, and staff personally-owned desktop and laptop computers. Details on the information technology

environment and available services can be found at the ITS website (http://www.its.msstate.edu).

International Institute

MSU's International Institute supports faculty, departments, colleges and research centers in their efforts to engage globally. In addition to facilitating internationally-oriented research and outreach projects, the Institute assists faculty interested in bringing international scholars to campus, initiating partnerships with foreign universities or international organizations, developing education abroad courses, or applying for the Fulbright Scholars program. A primary function of the International Institute is to help build capacity and foster relationships among faculty interested in international work. For details visit the International Institute's website (http://www.international.msstate.edu).

International Services

International Services, a unit of the International Institute within the Division of Academic Affairs, 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 J-1 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. Semi-annual orientation programs for new students along with additional immigration workshops are conducted by this office as well as annual international student services including orientation sessions, utility shuttles during holiday breaks, and offering an international tax software program.

The International Services office is located in 116 Allen Hall and can be contacted by telephone at 662-325-8929. Additional information can be found at the International Services website (http://www.international.msstate.edu/current/services/index.php).

ESL Center

The English as a Second Language (ESL) Center exists to provide high-quality intensive English instruction enabling students to achieve their individual goals. he ESL Center offers international students an intensive English language program, more than 20 hours per week of English language instruction, in a traditional southern setting. The goal of the Intensive English Program is to assist students learning English as a second language and foster their involvement in the community, so students can work toward a degree at MSU or return to their home country with the advanced English skills and USA culture experiences to advance their careers. The ESL Center provides assistance with Short-Term Group Language and Culture Programs, where ESL Center staff provide assistance with program development, program logistics (housing, classes, culture activities) student support, and immigration and visa support. The ESL Center also provides ESL students with culture programs (e.g. Conversation Partner Program, Conversation Connections Program, and a variety of cultural activities, events, and trips) and student support services (e.g. assistance with ESL students needs related to immigration, medical requirements, housing, airport transportation, etc.). For details please visit the ESL website (http://international.msstate.edu/esl).

Study Abroad

The Office of Study Abroad (OSA) offers the students and faculty of Mississippi State University the opportunity to explore academic opportunities outside of the United States. Nearly all programs offer academic credit that will apply toward a degree at MSU. OSA provides resources, assistance, and services related to planning a study abroad (academic programs and academic credit, finances and scholarships, travel documents, health issues, air transportation, communications, etc) and while studying abroad (arriving in a new country, living abroad, culture shock, emergencies while abroad, and returning to the US). For detailed information, please visit the Study Abroad website (http://international.msstate.edu/abroad). For faculty who are developing a study abroad course, planning resources can be obtained at the Faculty Study Abroad website (http://international.msstate.edu/faculty/abroad).

Learning and Teaching Centers

The Learning Center

The Learning Center is a resource to help Mississippi State University students improve their academic performance. The Learning Center offers services to both graduate and undergraduate students which include university courses, support programs, workshops, seminars, tutoring services, and state of the art technology labs. Open to all students, these services are particularly designed to promote academic enrichment. The Center 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. Detailed information can be obtained at the The Learning Center's website (http://www.tlc.msstate.edu).

The Center for Teaching and Learning

The Center for Teaching and Learning is a resource to help Mississippi State University faculty and graduate students maximize the learning experience both inside and outside the classroom.The mission of the Center is to foster a university culture where quality teaching and engaged learning is revered and practiced. The Center's faculty development programs and services emphasize knowledge, techniques, and issues related to teaching and learning. The Center is located in 2205 Mitchell Library, and the telephone number is (662) 325-2083. Detailed information can be obtained at the Center for Teaching and Learning's website (http://www.ctl.msstate.edu).

Library System

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

The University Libraries include a collection of over 2,000,000 volumes and over 80,000 journal/serial titles, including print and electronic formats. The Libraries regularly receive many of the publications of leading universities and scholarly societies. The Library is a selective Government Document Depository and United Nations Depository. The Libraries provide a full complement of full text journals as well as scholarly journals in electronic format and accessible remotely from

office and dorms on campus as well as at home and from a distance off campus. Through the Libraries web page, patrons have access to a wide variety of databases and full text journals.

The resources of the Special Collections Department include materials of research value on the local, state, regional, and national levels. Among the valuable documentation in the Archives of the University are papers of the University's presidents and other officers, college, division, and departmental records, faculty papers, records of committees and University-related organizations. The Manuscripts Division includes many significant collections, especially in the areas of journalism, civil rights, agricultural, and political history. Among the most important are the Turner Catledge Papers, Hodding and Betty Werlein Carter Papers, Mississippi Republican Party Papers, and the Delta and Pine Land Papers. The Mississippiana Collection contains significant works about Mississippi and by Mississippi authors and a large rare book collection. The Congressional and Political Research Center houses the papers of Senator John C. Stennis, Congressmen G.V. "Sonny" Montgomery, David Bowen, Charles Griffin, Mike Espy, Chip Pickering, and the Ulysses S. Grant Presidential Collection.

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

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

The Instructional Media Center (IMC) provides an environment for educational technology activities and a learning center to utilize techniques related to digital multimedia. The staff provides assistance in identifying, digitizing, and organizing content materials, including resources from the Libraries' collections for use in web page design or presentation. IMC houses computers with CD-ROM players, computers with flatbed scanners that can be used for scanning documents, pictures, photos, etc., typewriters, TV/VCR stations for students to listen to music as required for various courses. Two of these stations also have record players. Music composition stations consist of electronic keyboards attached to Mac computers. The IMC also provides small listening areas with TVs and VCRs for groups to view videos for classes. The Libraries provide a full range of individual reference services, including one-on-one consultations and online Chat. Three rooms with individual computer stations are available for class and group instruction and workshops. There is also a large auditorium and a presentation room for class and student use.

The Libraries, a charter member of the Southern Library Network (LYRASIS), hold memberships in the American Library Association, Association of College and Research Libraries, the Networked Digital Library of Theses and Dissertations (NDLTD), EDUCAUSE, EPSCOR/ESIG libraries, CNI and CLR, and was a founding member of SPARC. The Libraries are one of five supporting regional libraries within the National Agricultural Library Aquaculture Library Network, established to link the research and extension activities of the Regional Research Centers with the Network. The Main Library plays a major role in Mississippi's statewide consortium MAGNOLIA (Mississippi Alliance for Gaining New Opportunities through Library Information).

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

The Reference Department within the University Libraries provides group tables and individual study carrels as well as 41 desktop computers with black/white and color printing and adaptive technologies along with specialized print and electronic resources to further explore research interests or assist in investigating new areas of disciplines. The Reference Department is a strong resource when developing new areas of research. For teaching assistants, research librarians are available to teach Library orientations, advanced research skills, and specialized workshops per request. Additionally, they are available to create class-specific online research guides that can be integrated with MyCourses.

The Libraries are also a 95% U.S. government document depository, as well as acting as a 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.

Parking Services

Congratulations to our graduate students at Mississippi State University! Graduate students *who hold assistantships* should contact Parking Services for information regarding their permits. All parking areas are marked clearly and identified properly by appropriate signs. The Office of Parking Services website (http://www.parkingservices.msstate.edu) provides complete information regarding regulations, services, and permit application. You may call our office for assistance at 662-325-2661.

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.

Recreational Sports

The University's Department of Recreational Sports provides students with unique recreation programs, services, and facilities that support and encourage the development of a healthy lifestyle. The programs and services include the following:

- Aquatics (http://www.recsports.msstate.edu/programs-and-activities/aquatics)
- Fitness & Group Exercise (http://www.recsports.msstate.edu/programs-and-activities/fitness)
- Golf (http://www.golf.msstate.edu)
- Intramural Sports (http://www.recsports.msstate.edu/programs-and-activities/intramurals)
- Outdoor Adventures (http://www.recsports.msstate.edu/programs-and-activities/outdoor-adventures)
- Spirit Groups (http://www.spiritgroups.msstate.edu)
- Sports Clubs (http://www.recsports.msstate.edu/programs-and-activities/sportsclubs)

The University's major student recreational facilities include the following:

- Sanderson Center (http://www.recsports.msstate.edu/facilities/sanderson-center)
- RecPlex (http://www.recsports.msstate.edu/facilities/recplex)
- Chadwick Lake (http://www.recsports.msstate.edu/facilities/chadwick-lake)
- Sawyer Tennis Courts (http://www.recsports.msstate.edu/facilities/sawyer-tennis-courts)
- Disc Golf Course (http://www.recsports.msstate.edu/facilities/disc-golf-course)
- MSU Golf Course (http://golf.msstate.edu)

For more information, go to the University's website for Recreational Sports (http://www.recsports.msstate.edu).

Office of Technology Management

As a land-grant university, research is core to Mississippi State University's mission. The University is classified as a "RU/VH: Research Universities (very high research activity)", the highest research classification, in the Carnegie Classification of Institutions of Higher Education. The University continues to rank among the nation’s top research universities, according to the most recent data from the National Science Foundation. Research being a fundamental part of the University's culture significantly contributes to many graduate students' success. Please refer to the website of the University's Office of Research and Economic Development (http://www.research.msstate.edu) for detailed information about the following aspects of research at the University.

- Interdisciplinary Research Institutes and Centers (http://www.research.msstate.edu/ci)
- Sponsored Programs Administration (http://spa.msstate.edu)
- Office of Regulatory Compliance and Safety (http://www.orc.msstate.edu)
- Office of Environmental Health and Safety (http://www.ehs.msstate.edu)
- Office of (http://www.oett.msstate.edu) Technology Management (http://www.oett.msstate.edu)

As part of the University's strategic plan, State of Excellence: 2012-1017 (http://www.msstate.edu/web/excellence), research priority areas have been identified for the University. These priorities are used in directing future investments such as new faculty hires, infrastructure development, and resource allocation. They are not to the exclusion of other important academic, research and service areas on our campus. They are broadly defined intentionally, and each should be viewed across many colleges and disciplines, with both basic and applied research. The University strives for an interdisciplinary approach to these research areas and includes research in its broad definition, to include all forms of scholarship and creative endeavors. For more detailed information about each of these research areas, please refer to the Research Focus Areas section (http://www.msstate.edu/web/excellence/focusareas.pdf) of the University strategic plan or the website of the University's Office of Research and Economic Development (http://www.research.msstate.edu) .

Environment and Energy

- Water
- Food and Fiber Production and Safety
- Energy and Sustainability
- Natural Resources and Environmental Sustainability

Health and Education

- Health and Education Disparity

Knowledge Management Systems

- Data to Decisions
- Homeland Security
- Public Policy

Mobility Systems and Materials

- Mobility Systems
- Material Sciences and Engineering

International Development

Veterans Services

The G.V. "Sonny" Montgomery 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 Center's website (http://www.veterans.msstate.edu).

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