

Master of Engineering

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An Interdisciplinary 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 does not meet the 3.00 GPA requirement for the M Eng may be admitted to the program on a provisional basis. If provisional admission is granted, the student must achieve a GPA of 3.00 on the first 9 credit hours of graduate courses. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. Upon meeting the provisional admission requirements, the student receives regular admission status. If the student does not achieve a 3.00 GPA, the student may be terminated from the M Eng program. If a probationary period is granted, the student must achieve a cumulative 3.00 GPA within the next 9 hours of approved coursework.

Unclassified Admission

In certain circumstances, a student may be granted admission in unclassified status. Only 9 hours of graduate coursework received as an unclassified student **may** be transferred to the M Eng with the approval of the Associate Dean for Research and Graduate Studies. Hours completed in unclassified status may not be used to satisfy provisional admission requirements.

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:

- Library Instruction;
- Research Services;
- Borrow/Order Materials;
- Workshops;
- Instructional Media Center, etc.

The student may contact Library personnel by e-mail or telephone; all contact information is provided on the Library Website. A page on this Website is dedicated to Distance Education; information includes Requesting Help; Getting Connected; Getting Library Materials; and Doing Research.

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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.