

# Mechanical Engineering

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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 are

- fluid mechanics,
- solid mechanics,
- thermal sciences,
- materials and manufacturing,
- mechanical design, and
- system dynamics.

Specific programs of graduate study are established by consultation between students and their advisors. Graduate assistantships and fellowships are available in the department. For further information contact 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 (213 CBT or 79 iBT) or IELTS score of 6.5.

## Provisional Admission

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

## 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	1-13
Total Hours		25-37

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 of 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.