

## Emphasis - Mechanical Engineering

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### **M.S. in Engineering Science** **Description**

The M.S. in engineering science is offered in a number of emphasis areas: aeroacoustics, chemical engineering, civil engineering, computational hydroscience, computer science, electrical engineering, electromagnetics, environmental engineering, geology, geological engineering, hydrology, mechanical engineering, material science and engineering, and telecommunications.

#### **Minimum Total Credit Hours: 30**

#### **Course Requirements**

A student must complete the requirements for an emphasis area. For most emphasis areas, the degree may be completed as either a thesis option (30-hour program, to include 6 hours of thesis) or nonthesis option (30-hour program, to include a minimum of 3 hours of a design-oriented project course).

### **Emphasis - Mechanical Engineering** **Description**

A M.S. in engineering science with emphasis in mechanical engineering prepares a student with advanced technical knowledge and communication skills for pursuing a career in industry, engineering research and development, public service, or for doctoral work.

#### **Course Requirements**

The M.S. with emphasis in mechanical engineering can be completed as a thesis or nonthesis option. The thesis option requires a minimum of 24 hours of course work as specified by the student's adviser and 6 hours minimum of thesis credit. A nonthesis "project option" entails 27 hours of approved course work plus 3 hours of a research project, plus a written report on the project and a comprehensive oral exam covering the project and all course work. A third, nonthesis option includes 30 hours of approved course work and a comprehensive oral exam.

#### **Other Academic Requirements**

For each option, a candidate must pass a final oral examination.

#### **Degree Requirements**

The academic regulations for this degree program, as entered in the University of Mississippi Catalog, are in effect for the current or selected academic year and semester. The University of Mississippi reserves the right to 1) change or withdraw courses; 2) change rules for registration, instruction, and graduation; and 3) change other regulations affecting the student body at any time.

### **M.S. in Engineering Science**

REQUIREMENT	HOURS	DESCRIPTION
Pass oral exam		Student must pass a final oral examination.
Select an emphasis		Student must enroll in one of the MS in Engineering Science emphasis areas: aeroacoustics, chemical engineering, civil engineering, computational hydroscience and engineering, computer science, electrical engineering, electromagnetics, environmental engineering, geological engineering, geology, hydrology, materials science and engineering, mechanical engineering, or telecommunication.
GPA requirements		A cumulative average of not less than 3.0 (B) must be achieved in all graduate work taken.
Engineering Dean's approval		This Degree Audit program is an advising tool only. The student must still apply for a degree by submitting their degree application to <a href="mailto:engineer@olemiss.edu">engineer@olemiss.edu</a> . The dean's office will make the final certification that the courses listed on the application qualify the student for graduation. The Dean's Office will also determine if other university requirements (GPA, etc.) have been met.

### Emphasis - Mechanical Engineering

REQUIREMENT	HOURS	DESCRIPTION
Thesis vs non-thesis		Student must complete either the thesis, the project or the other option for the MS in Engineering Science with Emphasis in Mechanical Engineering. For the thesis or project option, the student must also submit a thesis or research project to his/her GPC/Chair.
Other option	30	For the other option, student must complete at least 30 hours of graded course work. All course work must be approved by the student's GPC/Chair.
Project option	30	For the project option, the student must complete at least 27 hours of graded course work and one 3-hour project or research course. All course work must be approved by the student's GPC/Chair.
Thesis option	30	For the thesis option, the student must complete at least 24 hours of graded course work and at least 6 hours of thesis credit. All course work must be approved by the student's GPC/Chair.
Thesis or project		For the thesis option, the student must submit a thesis to his/her GPC/Chair. For the project option, the student must submit a research project to his/her GPC/Chair.

