

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

2021/22 Catalog and Later

Thesis Track

Total Minimum Hours: 30

The program consists of a minimum coursework requirement of 30 credit hours. All MSME program students must successfully complete **EML 6105: Advanced Thermodynamics and Statistical Methods**, **EML 6653: Applied Elasticity**. Students must choose three (3) credit hours of coursework from the following math courses: **EML 6069** (Advanced Mathematics) OR **EML 6930** (Advanced Engineering Mathematics II).

The MSME with thesis option requires an additional minimum of **15** credit hours of approved coursework and a minimum of **6** thesis hours for a total of 30 semester hours. Students without an engineering bachelor's degree will be required to complete undergraduate engineering pre-requisite courses as determined by the Department. Please contact the Graduate Program Director for more information.

Core Requirements (6 hours)

EML 6105: Advanced Thermodynamics and Statistical Methods (3)

EML 6653: Applied Elasticity (3)

Additional Required Courses (3 hours)

EML 6069: Advanced Engineering Math I (3)

EML 6930: Advanced Engineering Math II (3)

Thesis (6 hours)

EML 6971: Thesis: Master's

Other Requirements (15 hours):

- Minimum 6 credit hours of courses must come from within ME Department.
- A maximum of 6 credits of independent study may be applied to meet the degree requirements.
- A maximum of 6 credits taken outside the Mechanical Engineering department may be applied to meet the degree requirements.
- Before graduating, the MSME with thesis track students must prepare a thesis and present it to the Supervisory Committee.
 - The student must present a typed final draft to the Supervisory Committee and Graduate Advisor one week before the final oral examination.

