

MASTER OF SCIENCE IN MECHANICAL ENGINEERING
2024/25 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 Mechanics**, **EML 6653: Applied Elasticity**, and **EML 6060: Advanced 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 (9 hours)

EML 6105: Advanced Thermodynamics and Statistical Mechanics (3)

EML 6653: Applied Elasticity (3)

EML 6060: Advanced Engineering Math II (3)

Thesis (6 hours)

EML 6971: Thesis: Master's

Other Requirements:

- Minimum 9 credit hours of courses must come from within ME Department.
- A maximum of 3 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.

Master of Science in Mechanical Engineering

Thesis Option

Curriculum Program of Study Form (updated 3/2025)

Name:		Term/Year Admitted into Program:	
USF ID #			
Address:			
Phone:			
Email:			
30 Total Credits of Coursework			
All students enrolled in the MSME thesis track <u>must</u> take a total of 9 credit hours of core courses (listed below). In addition to these 9 credit hours, the MSME with thesis option requires a minimum of 6 thesis hours and a minimum of 15 credit hours of approved coursework.			

Course Title	Number	Credits	Semester	Outside ME?	Grade
Required core courses:					
Advanced Thermodynamics	EML 6105	3			
Applied Elasticity	EML 6653	3			
Advanced Engineering Math II	EML 6060	3			
6 thesis hours					
Thesis: Master's	EML 6971	3			
Thesis: Master's	EML 6971	3			
15 additional credits of approved coursework					
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