MASTER OF SCIENCE IN MECHANICAL ENGINEERING 2021/22 Catalog and Later <u>Non-Thesis Track</u>

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** and **EML 6653: Applied Elasticity**. In addition to these 9 credit hours, the MSME without thesis option requires a minimum of 21 credit hours of approved coursework. 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 Mechanics (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)

Other Requirements:

- Minimum 6 credit hours of courses must come from within ME Department.
- A <u>maximum</u> of 6 credits of independent study may be applied to meet the degree requirements.
- A <u>maximum</u> of 6 credits taken outside the Mechanical Engineering department may be applied to meet the degree requirements.

Portfolio

MSME without thesis track students must submit two project reports completed as part of the EML coursework requirement to the Graduate Program Coordinator during the semester of graduation for evaluation and assessment. Failure to respond to this requirement will prevent students from graduation.

Master of Science in Mechanical Engineering

Non-Thesis Option

Curriculum Program of Study Form (updated 2/2023)

Name:	Term/Year Admitted into Program:					
USF ID #						
03F ID #						
Address:						
Phone:						
Email:						
30 Total Credits of Coursework						
All students enrolled in the non-thesis track must take a total of 9 credit hours of core courses (listed below). In addition to these 9						

All students enrolled in the non-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 without thesis option requires a minimum of **21** 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			
additional credits of required course	work in Mathematics	: (must select	one)	·	
Advanced Engineering Math I	EML 6069	3			
Advanced Engineering Math II	EML 6930	3			
21 additional credits of approved cou	rsework				
Out of 21 additional credits,	Total Credits Outside ME				
minimum 6 credit hours of EML	Total Credits Independent Study				
courses must come from within	Total Credits (30 required)				
department Maximum 6 credit hours					

 Maximum 6 credit hours Independent Study

 Maximum 6 credit hours from outside department

Graduate Program Coordinator