

Minor in Mechanical Engineering

About This Program

The Minor in Mechanical Engineering provides qualified students with the opportunity to gain fundamental mechanical engineering knowledge. Students may choose from a range of fundamental and elective courses to complete the minor.

Competencies

1. Upon completion, students will have the ability to identify, formulate and solve mechanical engineering problems by applying principles of engineering, science and mathematics.

Admissions Criteria

To pursue the minor, a student must be in compliance with the ME 3-GPA calculation requirements for all completed courses that are part of the BSME program and be in compliance with the COE 3-attempt rule, including prerequisite courses.

Curriculum

Foundations

MAE 2312	SOLID MECHANICS	3
MAE 2323	DYNAMICS	3
MAE 3310	THERMODYNAMICS I	3

Specialization

Select 9 hours from the following:		9
MAE 3242	MECHANICAL DESIGN I	
MAE 3311	THERMODYNAMICS II	
MAE 3313	FLUID MECHANICS	
MAE 3314	HEAT TRANSFER	
MAE 3318	KINEMATICS AND DYNAMICS OF MACHINES	
MAE 3319	DYNAMIC SYSTEMS MODELING AND SIMULATION	
MAE 3324	STRUCTURE & MECHANICAL BEHAVIOR OF MATERIALS	
MAE 3344	INTRODUCTION TO MANUFACTURING ENGINEERING	
MAE 4310	INTRODUCTION TO AUTOMATIC CONTROL (BSAE majors only)	
MAE 4342	MECHANICAL DESIGN II	
MAE 4344	COMPUTER-AIDED ENGINEERING (BSAE majors only)	

Total Hours **18**

Program Completion

To receive the minor, a student must:

- complete all prerequisites for courses used to satisfy the ME Minor
- complete all courses used to satisfy the minor with a grade of C or better; and
- complete at least 9 hours of the ME minor course requirements in residence at UTA with approval in advance by the MAE undergraduate advisor.

Advising Resources

First time in college students meet with engineering advisors in the UAEC (UAECengineering@uta.edu). Transfer students are advised prior to New Maverick Orientation by the department. Students, please read all student emails carefully and consult the department advising webpage for additional contact information and answers to common questions.

Location:

204 Woolf Hall

Email:

maeundergrad@uta.edu

Phone:

817-272-2561

Web:

Additional Advising Information (<https://www.uta.edu/academics/schools-colleges/engineering/academics/departments/mechanical-aerospace/students/ugadvising/>)