

Minor in Aerospace Engineering

About This Program

The Minor in Aerospace Engineering provides qualified students with fundamental aerospace engineering knowledge. Students will gain fundamental aerospace engineering concepts in aerodynamics, propulsion, flight mechanics, and aerospace structures.

Competencies

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

Admissions Criteria

To pursue the minor, a student must be in compliance with the AE 3-GPA calculation requirements for all completed courses that are part of the BSAE 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 3301	FLUID DYNAMICS	3
or MAE 3313	FLUID MECHANICS	

Specialization

Select one course from each of the following three areas:

Fluid Mechanics, Aerodynamics and Propulsion		3
MAE 3302	INCOMPRESSIBLE AERODYNAMICS	
MAE 3303	COMPRESSIBLE FLOW	
MAE 4321	AEROSPACE PROPULSION	
Solid Mechanics and Structures		3
MAE 3315	AEROSPACE STRUCTURAL STATICS	
MAE 4314	MECHANICAL VIBRATIONS	
Flight Mechanics and Controls		3
MAE 3304	ASTRONAUTICS I	
MAE 3405	FLIGHT DYNAMICS	
MAE 3306	FLIGHT PERFORMANCE, STABILITY & CONTROL	

Total Hours **18**

Program Completion

To receive the minor, a student must:

- complete all prerequisites for courses used to satisfy the AE minor;
- complete all courses used to satisfy the minor with a grade of C or better; and
- complete at least 9 hours of the 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/>)