

Minor in Aerospace Engineering

Purpose

- To provide a foundation in aerospace engineering
- To help students compete for positions in the aerospace industry

Requirements

Students will take courses from the 4 fundamental areas of aerospace engineering for a total of 18 credit hours:

- Aerodynamics
- Aerospace structures
- Flight mechanics
- Propulsion

Must take both:

MAE 3400	Fluid Mechanics	3
MAE 3600	Dynamic Systems and Control	3

Select at least 3 from:

MAE 4210	Aerospace Structures	3
MAE 4390	Aerospace Propulsion	3
MAE 4420	Intermediate Fluid Mechanics	3
MAE 4430	Introduction to Computational Fluid Dynamics and Heat Transfer	3
MAE 4440	Aerodynamics	3
MAE 4450	Gas Dynamics	3
MAE 4460	Microfluidics	3
MAE 4620	Aircraft Flight Performance	3
MAE 4630	Space Flight Mechanics	3
MAE 4635	Spacecraft Attitude Dynamics and Control	3
MAE 4690	Aircraft Flight Dynamics	3
MAE 4940	Aircraft Design	3
MAE 4990	Undergraduate Research in Mechanical and Aerospace Engineering <small>Proposal must be submitted to Aero Committee, and accepted</small>	1-6
MAE 4995	Undergraduate Honors Research Mechanical & Aerospace Engineering <small>Proposal must be submitted to Aero Committee, and accepted</small>	1-6

Auxiliary Courses

A maximum of 3 credit hours can be counted toward the minor

MAE 4280	Introduction to Finite Element Methods	3
MAE 4320	Design of Thermal Systems	3
MAE 4380	Intermediate Thermodynamics	3
MAE 4600	Advanced Mechanics of Materials	3
MAE 4680	Introduction to MEMS	3
MAE 4710	Hydraulic Control Systems	3
MAE 4720	Modern Control	3
MAE 4740	Digital Control	3
PHYSICS 3200	Physics of Space Explorations	3

Process

- Meet with your advisor during your sophomore/junior year to plan minor courses into your schedule.
- Submit the application form (list of completed/planned aerospace courses) in the semester before you graduate.
- When completed, the Aerospace Minor will appear on your transcripts.

Contact

Craig Kluever
 KlueverC@missouri.edu
 phone: 573-882-6764