



College of Engineering

School of Mechanical, Industrial and Manufacturing Engineering

AEROSPACE ENGINEERING MINOR

The Aerospace Engineering Minor within Mechanical Engineering is designed to give students a broad background in aeronautics and astronautics while providing unique, transcript-visible experience and career preparation. Through participation in projects related to aviation, rocketry and satellite technologies, students will have the opportunity to gain experiential knowledge that industry seeks.

2024-2025 Academic Year

Required	Credits
AAE 210 Introduction to Aerospace Engineering	4
AAE 411 Aerospace Application in Mechanical Engineering	4
AAE 412 Space Systems Engineering	4
Technical Electives*	16
	28

*Suggested technical electives and lab electives on the following page

Note: The undergraduate minor in aerospace engineering requires 28 credits, most of which can be double-counted with the restricted technical electives required for the B.S. degree in mechanical engineering options other than the Aerospace option.

Please see an MIME Advisor for more information.



For more information visit

<https://mime.oregonstate.edu/aerospace-engineering-minor>

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AEROSPACE ENGINEERING MINOR TECHNICAL ELECTIVES

Below you will see the **Course Number**, Name, (credits)
and Prerequisites — abbreviated as Preq for each elective



*Suggested Senior & Lab Electives

- **AAE 413:** Aero Vehicles Components Design (4 credits)
 - Preq: AAE 210, ME 217, ME 316, ME 330 and ME 373
- **AAE 415:** UAV Engineering (4 credits)
 - Preq: AAE 210, ME 217, ME 316, ME 330 or NSE 330 and ME 373
- **AAE 462:** Rocket Propulsion (4 credits)
 - Preq: ME 330 or NSE 330 and AAE 210 or ME 461
- **ME 420:** Applied Stress Analysis (4 credits)
 - Preq: ME 316
- **ME 422:** Mechanical Vibrations (4 credits)
 - Preq: ME 217
- **ME 424:** Finite Element Analysis of Mechanical Components (4 credits)
 - Preq: ME 316 and MTH 341
- **ME 445:** Introduction to Combustion (4 credits)
 - Preq: ME 312 and ME 332
- **ME 461:** Gas Dynamics (4 credits)
 - Preq: ME 310, ME 330, and ME 373
- **ME 483:** Mechanics of Composite Materials (4 credits)
 - Preq: ME 316
- **MFGE 413:** Computer Aided Design and Manufacturing (4 credits)
 - Preq: ENGR 248 and IE 366 or ME 382
- **MFGE 438:** Composites Manufacturing (4 credits)
 - Preq: ENGR 213

***If you are not a Mechanical Engineering Major, the preqs listed might also have preqs required that you would need to consider as well.