

Minor in Aerospace Engineering

The Aerospace Engineering minor provides students with a foundational understanding of the principles governing the design, analysis, and operation of air and space vehicles. The program introduces core concepts in aerodynamics, structural behavior, and orbital mechanics, while offering flexibility through elective coursework that allows students to explore advanced topics such as propulsion, flight dynamics, space systems, computational methods, and experimental techniques. Emphasis is placed on developing analytical and problem-solving skills, with opportunities for applied and laboratory-based learning. This minor complements a wide range of majors by providing interdisciplinary exposure to aerospace engineering and preparing students for careers or further study in aerospace and related high-technology fields.

Some majors may not be eligible to pair with this minor. See the Minor Restrictions (<https://catalog.erau.edu/programs/undergraduate/minors/restrictions/>) list for details.

Prescott Minor Requirements

AERO 301	Aerodynamics I	3
AERO 313	Space Mechanics	3
AERO 318	Aerospace Structures I	3
Choose Eight Credits from the Following:		8
AERO 302	Aerodynamics II	
AERO 314	Experimental Aerodynamics	
AERO 314L	Experimental Aerodynamics Laboratory	
AERO 317	Aircraft Flight Mechanics and Performance	
AERO 324	Experimental Space Systems Engineering	
AERO 324L	Experimental Space Systems Engineering Laboratory	
AERO 405	Introduction to Finite Element Analysis	
AERO 411	Advanced Experimental Aerodynamics	
AERO 414	Space Propulsion	
AERO 415	In-Flight Laboratory	
AERO 418	Aerospace Structures II	
AERO 419	Fundamentals of Wind Energy	
AERO 423	Airplane Stability, Dynamics, and Control	
AERO 426	Spacecraft Attitude Dynamics	
AERO 428	Advanced Space Mechanics	
AERO 433	Aerodynamics of the Helicopter	
AERO 437	Advanced Space Propulsion	
ENGR 402	Application of Advanced CATIA Methods	
ENGP 312	Space Systems Engineering	
MECH 360	Airbreathing and Rocket Propulsion	
Total Credits		17