

Minor in Engineering Sciences

The overall goal of the Engineering Sciences Minor is to provide insight into what engineers do, and an understanding of the tools and techniques they use. Participants in the engineering sciences minor program will not become engineers, but they should dramatically increase their ability to integrate their skills and communicate effectively with engineering professionals. They will acquire a conceptual understanding of what engineering, engineering design process, technology, and technology-related concepts are.

The program is designed to be an effective minor to supplement students' non-engineering degree programs. This program is designed for students who are not engineering majors but are interested in understanding "how things work;" and are looking at management, technical marketing, sales, and related careers in an industry such as aviation and aerospace that continues to involve more technology.

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.

Worldwide Minor Requirements

Not open to BS in Aviation Maintenance/Engineering Specialization only students.

Not open to BS in Engineering Technology students, BS in Engineering students, BS in Software Engineering students, and BS in Mechanical Engineering students.

ENGR 101W	Introduction to Engineering	3
MATH 241	Calculus and Analytical Geometry I	4
PHYS 150	Physics with Calculus I	3
ESCI 201	Statics	3
SFTY 326	System Safety	3
AVSF 335	Mechanical and Structural Factors in Aviation Safety	3
AMNT 429	Advanced Technologies in Design and Production of Aircraft Structures and Systems	3
Total Credits		22

* Prerequisite for MATH 241 is MATH 142 or MATH 143. Successful completion of MATH 142 and MATH 241 should fulfill General Education Mathematics requirements.

Estimated Cost of Attendance: California Student Information (<https://catalog.erau.edu/student-life/student-affairs/california-student/>)