

# A.S. in Aeronautics

Whether you want to break into the aviation industry, or advance your current position and earnings potential, the Associate in Science in Aeronautics degree opens the door to new opportunities in the dynamic aviation/aerospace industry.

Aeronautics curriculum is closely mapped to the needs and demands of the aviation/aerospace industry and to general education guidelines.

You will be exposed to a multidisciplinary program with courses of study in uncrewed systems, human factors, security, aviation safety, occupational safety and health, air traffic control, aircraft maintenance, and aeronautical science. Within that broad base, electives and minors allow you to tailor your degree to your particular interests and career goals.

## Aviation Area of Concentration

The Aviation Area of Concentration is the degree area where credit for prior aviation learning is noted or where students can take courses to learn about aviation. Many students bring in all or part of this credit based on prior aviation training or experience. However, shortages in the minimum credit required can be made up by taking courses in the following aviation-related disciplines: Aeronautical Science, Aviation Maintenance, Aviation History, and aviation/aerospace related coursework in Safety, Security, Transportation, Engineering, and Uncrewed Systems.

### Sources of prior learning credit include:

1. Transfer credit earned at accredited degree-granting colleges and universities.
2. The recommendations published by the American Council on Education for U.S. Military training and experience, as well as training conducted by other government agencies and private organizations.
3. Prior-learning credit established by the University for certain aviation licenses and ratings as they relate to this degree.

## Duplicate Credit

Many Embry-Riddle courses are designed to teach the same skills and knowledge that Aeronautics students have acquired through experience and training. Students who complete courses in the same aviation specialty for which they were granted Aviation Area of Concentration credit would be duplicating coverage of the same subject matter. Credit for completion of such courses will not be applied to degree requirements.

Take your future to new heights!

Estimated Cost of Attendance

### Students will:

- Apply advanced concepts of aviation, aerospace and aeronautical science to solve problems in the aviation/aerospace industry.
- Show evidence of the basic concepts in national and international legislation and law as they pertain to the aviation, aerospace, and aeronautics industries.
- Show evidence of knowledge and understanding of management activities as they apply to aviation/aerospace operations in written and numerical ways where ever appropriate.
- Show evidence of basic concepts in aviation safety related to the aviation, aerospace, and aeronautics industry.

## DEGREE REQUIREMENTS

### General Education

### General Education

Embry-Riddle courses in the general education categories of Communication Theory and Skills, Humanities, Social Sciences, Physical and Life Science, Mathematics, and Computer Science may be chosen from as listed, assuming prerequisites are met. Courses from other institutions are acceptable if they fall into these broad categories and are at the level specified.

### Communication Theory and Skills

Any Communication Theory and Skills above ENGL 106 9

### Humanities

Lower-Level Humanities (Any Lower or Upper Level Humanities) 3

Upper-Level Humanities (Any Upper Level Humanities) 3

### Social Sciences

Any Social Science 6

### Physical and Life Science

Any Physical Science/Physics 6

### Mathematics

Any College Algebra or Higher Math Series 6

### Computer Science

Any Computer Science 3

**Total Credits 36**

## Core/Major

**Aviation Area of Concentration 9**

Make up shortages with non-duplicating courses from the following disciplines: Aeronautical Science, Aviation Maintenance, and related aviation/aerospace coursework in Transportation, Safety, Security, History, Engineering, and Uncrewed Systems.

**Program Support 9**

ASCI 202 Introduction to Aeronautical Science 3

ASCI 254 Aviation Legislation 3

STAT 211 Statistics with Aviation Applications 3

## Electives

**Open Electives (Upper or Lower Level) 6**

**Total Degree Requirements 60**