

B.S. in Aeronautics

Whether you want to advance your current position and earnings potential, launch into an aviation career, or open your career up to new opportunities, the Bachelor of Science in Aeronautics (BSA) 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. The BSA is 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.

It does not have to take long, either. You can receive transfer credit, advance standing, and Federal Aviation Administration (FAA) or military ratings and certifications, which may lead to receiving your degree in a shorter time.

Students are also eligible to engage in cooperative study/internships and may elect to seek out those enriching opportunities.

The Bachelor of Science in Aeronautics is accredited by the Aviation Accreditation Board International (AABI)

Graduates from the Worldwide BSA degree program are not eligible to apply for an airline transport pilot (ATP)-Restricted privileges certificate under Title 14 part 61.160.

Minor Courses of Study

One key and essential element of this degree is the ability to enhance and strengthen your academic program by adding any Minor Course of Study. Students may use courses from a minor and place them into Aviation Area of Concentration, Professional Development Electives and/or Open Electives (all as appropriate). Students are strongly encouraged to add a Minor to their degree. Students can enhance their aeronautics degree with a minor providing them with targeted sector expertise that they can broaden their career prospects and deepen their understanding of the industry.

Available Minors

Aviation Area of Concentration

The Aviation Area of Concentration is the degree area where credit for prior aviation learning is housed or where students can take aeronautical science courses. Many students bring in all or part of this credit based on prior aviation training or experience or add a Minor Course of Study. 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 the following:

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.

B.S. in Aeronautics students who wish to continue on to a master's degree may enroll in the BSA-MSA 4+1 program as outlined in this program.

Estimated Cost of Attendance