

B.S. in Pilot Operations

Worldwide Program Requirements

General Education Requirements	36
Core Requirements	72
Electives	12
Total Credits	120

Program Details

The Bachelor of Science in Pilot Operations requires successful completion of a minimum of 120 credit hours. Students enrolled in the Worldwide Undergraduate Online program may complete the degree in 20 terms, or approximately four years, assuming full-time enrollment and continuous progress. Students pursuing this undergraduate degree must earn a minimum cumulative grade point average (CGPA) of 2.00 for all work completed at the University. The courses required to earn this degree are listed below.

Students should be aware that many courses have prerequisites and/or corequisites. Students are responsible for ensuring that all prerequisite and degree requirements are satisfied prior to enrollment in advanced coursework. The suggested plan of study is provided as a guide. A student's actual plan of study may vary based on term of admission, course availability, transfer credit, and other academic considerations. Students should consult with their academic advisor to develop an individualized plan of study.

The curriculum integrates coursework in pilot operations, aviation maintenance, aviation safety, air traffic management, meteorology, and aviation management to prepare students for professional aviation careers. Students should work closely with their academic advisor to ensure prerequisite requirements are met and courses are completed in the recommended sequence.

General Education Requirements

Communication	9
Any Communication above COMM 106	
Humanities - Lower or Upper Level	3
Social Sciences - Lower or Upper Level	6
Humanities/Social Sciences - Upper Level	3
Computer Science/Information Technology	3
Mathematics	6
Any College Algebra or Higher Math Series	
Physical/Life Sciences	6
Physical Sciences/Physics	
Total Credits	36

Core Requirements

ASCI 121W	Private Pilot Operations	5
ASCI 121L	Airman Knowledge Test Preparation	1
ASCI 221	Instrument Pilot Operations	3
ASCI 321W	Commercial Pilot Operations	3
ASCI 254	Aviation Legislation	3
ASCI 257	Flight Physiology	3
ASCI 301	Introduction to Air Traffic Control	3
ASCI 309	Aerodynamics	3
ASCI 412	Corporate and Business Aviation	3
ASCI 426	Airport Management in Air Traffic Management	3
ASCI 491	Operational Applications in Aeronautics	3
AMNT 260	Aircraft Electrical Systems Theory	3
AMNT 271	Airframe Systems and Applications	3
AMNT 272	Fundamentals of Aircraft Avionics	3

AMNT 281	Turbine Engine Theory and Applications	3
AMNT 416	Aviation Maintenance Management: A Global Perspective	3
AVSF 320	Human Factors in Aviation Safety	3
AVSF 330	Aircraft Accident Investigation	3
AVSF 335	Mechanical and Structural Factors in Aviation Safety	3
AVSF 345	Aviation Safety Program Management	3
AVSF 409	Aviation Safety	3
MGMT 201	Principles of Management	3
WEAX 201	Introduction to Meteorology	3
WEAX 301	Aviation Weather	3
Total Credits		72

Electives

Open Electives	12
Total Credits	12

Suggested Plan of Study

Year One

Requirements	Credits
Communication above COMM 106	3
College Algebra or Higher Math Series	3
Semester Hours	6

Requirements	Credits
Communication above COMM 106	3
College Algebra or Higher Math Series	3
Semester Hours	6

Requirements	Credits
Communication above COMM 106	3
Computer Science	3
Semester Hours	6

Requirements	Credits
Humanities - Lower Level or Upper Level	3
Social Sciences - Lower Level or Upper Level	3
Semester Hours	6

Requirements	Credits
Social Sciences - Lower Level or Upper Level	3
Open Elective	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 30

Year Two

Requirements	Credits
Physical Sciences/Physics	3
Physical Sciences/Physics	3
Semester Hours	6

Requirements	Credits
ASCI 121W - Private Pilot Operations	5
ASCI 121L - Airman Knowledge Test Preparation	1
Semester Hours	6

Requirements	Credits
ASCI 221 - Instrument Pilot Operations	3
ASCI 254 - Aviation Legislation	3
Semester Hours	6

Requirements	Credits
AMNT 260 - Aircraft Electrical Systems Theory	3
AMNT 271 - Airframe Systems and Applications	3
Semester Hours	6

Requirements	Credits
AMNT 272 - Fundamentals of Aircraft Avionics	3
AMNT 281 - Turbine Engine Theory and Applications	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 30

Year Three

Requirements	Credits
MGMT 201 - Principles of Management	3
WEAX 201 - Introduction to Meteorology	3
Semester Hours	6

Requirements	Credits
Humanities/Social Sciences - Upper Level	3
ASCI 321W - Commercial Pilot Operations	3
Semester Hours	6

Requirements	Credits
ASCI 301 - Introduction to Air Traffic Control	3
ASCI 309 - Aerodynamics	3
Semester Hours	6

Requirements	Credits
AVSF 320 - Human Factors in Aviation Safety	3
AVSF 330 - Aircraft Accident Investigation	3
Semester Hours	6

Requirements	Credits
AVSF 335 - Mechanical and Structural Factors in Aviation Safety	3
Open Elective	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 30

Year Four

Requirements	Credits
ASCI 257 - Flight Physiology	3
ASCI 412 - Corporate and Business Aviation	3
Semester Hours	6

Requirements	Credits
AMNT 416 - Aviation Maintenance Management: A Global Perspective	3
AVSF 345 - Aviation Safety Program Management	3
Semester Hours	6

Requirements	Credits
AVSF 409 - Aviation Safety	3
WEAX 301 - Aviation Weather	3
Semester Hours	6

Requirements	Credits
ASCI 426 - Airport Management in Air Traffic Management	3
Open Elective	3
Semester Hours	6

Requirements	Credits
ASCI 491 - Operational Applications in Aeronautics	3
Open Elective	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 30

Estimated Cost of Attendance

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