

B.S. in Aeronautics

Asia Program Requirements

General Education Requirements	36
Core Requirements	19
Program Support Courses	21
Aviation Area of Concentration	12
Minor	18
Electives	15
Total Credits	121

Program Details

The Bachelor of Science in Aeronautics at the Asia Campus requires successful completion of a minimum of 121 credit hours. Students should consult their advising report to determine which modules, if any, have been granted as exemptions. The courses required to earn this degree are listed below.

Students should be aware that many modules 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 instructor availability, the number of modules taken during a term, and other academic considerations.

Based on placement examination results, students may be required to complete one or more of the following modules prior to beginning the program: COMM 104, COMM 106, MATH 100, and/or MATH 106. Students should consult with their academic advisor to develop an individualized plan of study.

Note: Asia campus students follow Worldwide prerequisite requirements unless otherwise specified.

General Education Requirements

Communication	9
COMM 122 English Composition	
COMM 222 Business Communication	
COMM 224 Collaborative Writing and Presenting	
Humanities - Lower Level	3
ECON 210 Microeconomics	
Social Sciences - Lower Level	3
SOSC 210 Introduction to Sociology	
Humanities/Social Sciences - Lower or Upper Level	3
ECON 211 Macroeconomics	
Humanities - Upper Level	3
HUMN 330 Values and Ethics	
Computer Science/Information Technology	3
CPSC 123 Introduction to Computing for Data Analysis	
Mathematics	6
MATH 111 Pre-calculus for Aviation	
MATH 112 Applied Calculus for Aviation	
Physical/Life Sciences	6
EVSC 142 Introduction to Environmental Science	
WEAX 201 Introduction to Meteorology	
Total Credits	36

Core Requirements

UNIV 101 College Success	1
ASCI 185 Introduction to Flight	3
or ASCI 202 Introduction to Aeronautical Science	

RSCH 202 Introduction to Research Methods	3
COIN 496 Co-Operative Education *	3
or SFTY 326 System Safety	
SCLM 420 Management of Production and Operations	3
AVSF 409 Aviation Safety	3
ASCI 491 Operational Applications in Aeronautics	3
Total Credits	19

* COIN 496 is a mandatory 3-credit course module intended for all undergraduate students to take as part of the Bachelor of Science in Aeronautics offered through the Singapore location. Under certain extenuating circumstances, COIN 496 may be substituted on a case-by-case basis for SFTY 326 System Safety in discussion with the Academic Advising Team. COIN 496 is an industry attachment serving as a structured supervised internship through which a student is personally coached by expert faculty. COIN 496 intends to add value to the student experience and benefit student employability upon completion of the degree program.

Program Support Courses

ASCI 254 Aviation Legislation	3
ASCI 404 Applications in Aviation and Aerospace Law	3
MGMT 201 Principles of Management	3
STAT 211 Statistics with Aviation Applications	3
MMIS 320 Business Information Systems	3
UNSY 220 Uncrewed Aircraft Systems	3
ASCI 309 Aerodynamics	3
Total Credits	21

Aviation Area of Concentration

SCTY 401 Aviation Security	3
SFTY 426 System Safety Management	3
ACCT 210 Financial Accounting	3
AVSF 320 Human Factors in Aviation Safety	3
Total Credits	12

Minor

Singapore Minor **	18
Total Credits	18

** View Available Singapore Minors at <https://nextcatalog.erau.edu/campuses/asia/> (<https://catalog.erau.edu/campuses/asia/>).

Electives

Open Electives	15
Total Credits	15

Suggested Plans of Study

Part Time

Year One

Requirements	Credits
COMM 122 - English Composition	3
MATH 111 - Pre-calculus for Aviation	3
UNIV 101 - College Success	1
Semester Hours	7

Requirements	Credits
EVSC 142 - Introduction to Environmental Science	3
CPSC 123 - Introduction to Computing for Data Analysis	3
Semester Hours	6

Requirements	Credits
ASCI 185 - Introduction to Flight or 202 - Introduction to Aeronautical Science	3
WEAX 201 - Introduction to Meteorology	3
Semester Hours	6

Requirements	Credits
MATH 112 - Applied Calculus for Aviation	3
STAT 211 - Statistics with Aviation Applications	3
Semester Hours	6

Requirements	Credits
ASCI 185 - Introduction to Flight	3
ECON 210 - Microeconomics	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 31

Year Two

Requirements	Credits
SOSC 210 - Introduction to Sociology	3
ASCI 254 - Aviation Legislation	3
Semester Hours	6

Requirements	Credits
COMM 224 - Collaborative Writing and Presenting	3
ECON 210 - Microeconomics	3
Semester Hours	6

Requirements	Credits
RSCH 202 - Introduction to Research Methods	3
COMM 222 - Business Communication	3
Semester Hours	6

Requirements	Credits
ECON 211 - Macroeconomics	3
MGMT 201 - Principles of Management	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 24

Year Three

Requirements	Credits
ACCT 210 - Financial Accounting	3
Minor/Elective 1	3
Semester Hours	6

Requirements	Credits
ASCI 309 - Aerodynamics	3
UNSY 220 - Uncrewed Aircraft Systems	3
Semester Hours	6

Requirements	Credits
Minor/Elective 2	3
AVSF 320 - Human Factors in Aviation Safety	3
Semester Hours	6

Requirements	Credits
MMIS 320 - Business Information Systems	3
Minor/Elective 3	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 24

Year Four

Requirements	Credits
HUMN 330 - Values and Ethics	3
SCTY 401 - Aviation Security	3
Semester Hours	6

Requirements	Credits
Minor/Elective 4	3
SFTY 426 - System Safety Management	3
Semester Hours	6

Requirements	Credits
Minor/Elective 5	3
Minor/Elective 6	3
Semester Hours	6

Requirements	Credits
ASCI 404 - Applications in Aviation and Aerospace Law	3
SCLM 420 - Management of Production and Operations	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 24

Year Five

Requirements	Credits
Minor/Elective 7	3
AVSF 409 - Aviation Safety	3
Semester Hours	6

Requirements	Credits
Minor/Elective 8	3
Minor/Elective 9	3
Semester Hours	6

Requirements	Credits
COIN 496 - Co-Operative Education or SFTY 326 - System Safety	3
Minor/Elective 10	3
Semester Hours	6

Requirements	Credits
ASCI 491 - Operational Applications in Aeronautics	3
Minor/Elective 11	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 24

Full Time

Year One

Requirements	Credits
COMM 122 - English Composition	3
MATH 111 - Pre-calculus for Aviation	3
CPSC 123 - Introduction to Computing for Data Analysis	3
UNIV 101 - College Success	1
Semester Hours	10

Requirements	Credits
EVSC 142 - Introduction to Environmental Science	3
ASCI 185 - Introduction to Flight or 202 - Introduction to Aeronautical Science	3
WEAX 201 - Introduction to Meteorology	3
Semester Hours	9

Requirements	Credits
MATH 112 - Applied Calculus for Aviation	3
STAT 211 - Statistics with Aviation Applications	3
SOSC 210 - Introduction to Sociology	3
Semester Hours	9

Requirements	Credits
ASCI 254 - Aviation Legislation	3
COMM 223 - Intelligence Communication	3
ECON 210 - Microeconomics	3
Semester Hours	9

Total Credits

Total Hours for All Requirements: 37

Year Two

Requirements	Credits
RSCH 202 - Introduction to Research Methods	3
COMM 224 - Collaborative Writing and Presenting	3
ECON 211 - Macroeconomics	3
Semester Hours	9

Requirements	Credits
MGMT 201 - Principles of Management	3
ACCT 210 - Financial Accounting	3
Minor/Elective 1	3
Semester Hours	9

Requirements	Credits
ASCI 309 - Aerodynamics	3
UNSY 220 - Uncrewed Aircraft Systems	3
Minor/Elective 2	3
Semester Hours	9

Requirements	Credits
AVSF 320 - Human Factors in Aviation Safety	3
MMIS 320 - Business Information Systems	3
Minor/Elective 3	3
Semester Hours	9

Total Credits

Total Hours for All Requirements: 36

Year Three

Requirements	Credits
HUMN 330 - Values and Ethics	3
SCTY 401 - Aviation Security	3
Minor/Elective 4	3
Semester Hours	9

Requirements	Credits
SFTY 426 - System Safety Management	3
Minor/Elective 5	3
Minor/Elective 6	3
Semester Hours	9

Requirements	Credits
ASCI 404 - Applications in Aviation and Aerospace Law	3
SCLM 420 - Management of Production and Operations	3
Minor/Elective 7	3
Semester Hours	9

Requirements	Credits
AVSF 409 - Aviation Safety	3
Minor/Elective 8	3
Minor/Elective 9	3
Semester Hours	9

Total Credits

Total Hours for All Requirements: 36

Year Four

Requirements	Credits
COIN 496 - Co-Operative Education or SFTY 326 - System Safety	3
Minor/Elective 10	3
Semester Hours	6

Requirements	Credits
ASCI 491 - Operational Applications in Aeronautics	3
Minor/Elective 11	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 12