

B.S. in Uncrewed and Autonomous Systems

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

Program Core

ASCI 301	Introduction to Air Traffic Control	3
ASCI 309	Aerodynamics	3
ASCI 403	Air Traffic Management	3
UNSY 205	Applied Physics for Uncrewed Systems	3
UNSY 307	Uncrewed Systems Networking	3
UNSY 311	Uncrewed Ground Systems and Applications	3
UNSY 313	Uncrewed Maritime Systems and Applications	3
UNSY 315	Uncrewed Aircraft Systems and Operations	3
UNSY 316	Operational and Business Aspects of Uncrewed Aircraft Systems	3
UNSY 318	Uncrewed Aircraft Systems Robotics	3
UNSY 319	Cybersecurity and Countermeasure Considerations	3
UNSY 325	Uncrewed Systems Testing and Inspection	3
UNSY 329	Uncrewed Systems Computation and Programming	3
UNSY 331	Uncrewed Systems Legal and Regulatory Compliance	3
UNSY 405	Uncrewed Systems Operational Environments and Conditions	3
UNSY 410	Uncrewed Systems Sensing Technology	3
UNSY 415	Uncrewed Space Systems and Application	3
UNSY 421	Uncrewed Systems Mission Planning	3
UNSY 431	Uncrewed Systems Human Factors Considerations	3
UNSY 491	Operational Applications in Uncrewed Systems	3
STAT 211	Statistics with Aviation Applications	3

SCTY 400	Aviation Security	3
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Total Credits		66
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Minor or Open Electives:

The recommended Minor option for the BSUAS is the Minor in Small Uncrewed Aircraft Systems (sUAS) Operation. It provides an FAA Remote Pilot Certificate, hands-on training and offers an industry certification with the AUVSI Trusted Operator Program (TOP).

Part of this Minor is a mandatory two-day residency program with associated practical training and travel requirements. Each student must have their own sUAS to fly during the course. Please contact the advising team and program coordinators for details.

Students in the BSUAS degree program may choose an alternative to the sUAS-Ops minor according to their respective catalog and credit requirements with guidance of the program coordinators.

Open Electives		18
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-OR-

Minor Course of Study		18
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Choose Any Minor Course of Study (Except Uncrewed Autonomous Systems)

Available Minors

Total Degree Requirements **		120
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