

B.S. in Uncrewed and Autonomous Systems

Prescott Program Requirements

General Education Requirements	37
Core Requirements	18
Specified Electives	28
Program Support Courses	25
Open Electives	12
Total Credits	120

Program Details

The Bachelor of Science in Uncrewed Aircraft Systems program requires successful completion of a minimum of 120 credit hours. The program may be completed in eight semesters, or four years, assuming appropriate background and full-time enrollment. 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 program provides students with the aeronautical, technical, business, and regulatory knowledge required for careers in the rapidly evolving uncrewed aircraft systems industry. The courses necessary to earn this degree are listed below.

Students should be aware that many courses have prerequisites and/or corequisites. The UAS Capstone (UNSY 475) serves as the culminating experience for the program and is intended to be completed after UNSY 473 Operational Applications in Uncrewed Aircraft Systems. Students are responsible for ensuring that all prerequisite and degree requirements are met prior to enrollment in advanced coursework.

General Education Requirements

Communication	9
Humanities - Lower Level	3
Social Sciences - Lower Level	3
ECON 200 An Economic Survey	
Humanities/Social Sciences - Lower or Upper Level	3
PSYC 222 Introduction to Industrial/Organizational Psychology	
Humanities/Social Sciences - Upper Level	3
PSYC 326 Group and Team Behavior	
Computer Science/Information Technology	3
CPSC 118 Fundamentals of Computer Programming	
Mathematics	6
MATH 111 Pre-calculus for Aviation	
MATH 112 Applied Calculus for Aviation	
Physical/Life Sciences	7
PHYS 113 Introductory Physics I	
PHYS 117 Introductory Physics II	
PHYS 113L Introductory Physics I Laboratory	
or PHYS 117Introductory Physics II Laboratory	
Total Credits	37

Core Requirements

UNSY 220	Uncrewed Aircraft Systems	3
UNSY 318	UAS Robotics	3
UNSY 322	Operational and Business Aspects of Uncrewed Aircraft Systems	3
UNSY 324	Global Uncrewed Aircraft Systems (UAS) Regulations	3
UNSY 403	Uncrewed Sensing Systems	3

UNSY 473	Operational Applications in Uncrewed Aircraft Systems	3
or UNSY 491	Operational Applications in Uncrewed Systems	
Total Credits		18

Specified Electives

UNSY 125	Private and UAS Pilot Operations	3
UNSY 222	Uncrewed Aircraft Systems Security	3
UNSY 236	Uncrewed Aircraft Systems Operation and Cross-Country Data Entry	3
UNSY 237	Dronealism and Cinematography	3
UNSY 238	Concepts of Advanced Urban Air Mobility	3
UNSY 323	Crew Resource Management for UAS	3
UNSY 391	Application of UAS Technology	3
UNSY 402	Advanced UAS Videography	3
UNSY 475	UAS Mission Execution	3
UNIV 101	College Success	1
Total Credits		28

Program Support Courses

ASCI 309	Aerodynamics	3
ATMG 202	Introduction to Air Traffic Management	3
or ASCI 301	Introduction to Air Traffic Control	
ASCI 310	Aircraft Performance	3
AVSF 210	Introduction to Aerospace Safety	3
GEOS 210	Introduction to Geographic Information Systems	3
GEOS 310	Advanced Geographic Information Systems	3
WEAX 201	Introduction to Meteorology	3
WEAX 203L	Survey of Meteorology Laboratory	1
WEAX 301	Aviation Weather	3
Total Credits		25

Open Electives

Open Electives - Upper Level	3
Open Electives	9
Total Credits	12

Suggested Plan of Study

Year One

Requirements	Credits
COMM 122 - English Composition	3
CPSC 118 - Fundamentals of Computer Programming	3
MATH 111 - Pre-calculus for Aviation	3
UNIV 101 - College Success	1
Humanities - Lower Level	3
Semester Hours	13

Requirements	Credits
ECON 200 - An Economic Survey, 210 - Microeconomics, or 211 - Macroeconomics	3
PHYS 113 - Introductory Physics I	3
PHYS 113L - Introductory Physics I Laboratory	1
MATH 112 - Applied Calculus for Aviation	3
Communication	3

Open Elective	3
Semester Hours	16

Total Credits

Total Hours for All Requirements: 29

Year Two

Requirements	Credits
PHYS 117 - Introductory Physics II	3
PSYC 222 - Introduction to Industrial/Organizational Psychology	3
WEAX 301 - Aviation Weather	3
UNSY 220 - Uncrewed Aircraft Systems	3
Open Elective	3
Semester Hours	15

Requirements	Credits
ASCI 309 - Aerodynamics	3
ATMG 202 - Introduction to Air Traffic Management or ASCI 301 - Introduction to Air Traffic Control	3
UNSY 125 - Private and UAS Pilot Operations	3
UNSY 222 - Uncrewed Aircraft Systems Security	3
WEAX 201 - Introduction to Meteorology	3
WEAX 203L - Survey of Meteorology Laboratory	1
Semester Hours	16

Total Credits

Total Hours for All Requirements: 31

Year Three

Requirements	Credits
ASCI 310 - Aircraft Performance	3
PSYC 326 - Group and Team Behavior	3
UNSY 236 - Uncrewed Aircraft Systems Operation and Cross-Country Data Entry	3
UNSY 237 - Dronealism and Cinematography	3
UNSY 318 - UAS Robotics	3
Semester Hours	15

Requirements	Credits
GEOS 210 - Introduction to Geographic Information Systems	3
UNSY 322 - Operational and Business Aspects of Uncrewed Aircraft Systems	3
UNSY 324 - Global Uncrewed Aircraft Systems (UAS) Regulations	3
UNSY 238 - Concepts of Advanced Urban Air Mobility	3
UNSY 323 - Crew Resource Management for UAS	3
Semester Hours	15

Total Credits

Total Hours for All Requirements: 30

Year Four

Requirements	Credits
GEOS 310 - Advanced Geographic Information Systems	3
UNSY 391 - Application of UAS Technology	3
UNSY 403 - Uncrewed Sensing Systems	3
UNSY 473 - Operational Applications in Uncrewed Aircraft Systems or 491 - Operational Applications in Uncrewed Systems	3
Open Elective - Upper Level	3
Semester Hours	15

Requirements	Credits
AVSF 210 - Introduction to Aerospace Safety	3
UNSY 402 - Advanced UAS Videography	3
UNSY 475 - UAS Mission Execution Communication	3
Open Elective	3
Semester Hours	15

Total Credits

Total Hours for All Requirements: 30