

B.S. in Uncrewed and Autonomous Systems

Daytona Beach Program Requirements

General Education Requirements	37
Core Requirements	18
Specified Electives	38
Program Support Courses	15
Open Electives	12
Total Credits	120

General Education Requirements

Communication	9
Humanities - Lower Level	3
Social Sciences - Lower Level	3
Humanities/Social Sciences - Lower or Upper Level	3
Humanities/Social Sciences - Upper Level	3
Computer Science/Information Technology	3
CPSC 118 Fundamentals of Computer Programming or CYBR 235 Computer and Network Technologies	
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 117L Introductory 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 100 Remote Pilot Operations	2
UNSY 125 Private and UAS Pilot Operations	3
UNSY 201 Primary UAS Flight Operations	1
UNSY 222 Uncrewed Aircraft Systems Security	3
UNSY 236 Uncrewed Aircraft Systems Operation and Cross-Country Data Entry	3
or UNSY 241 UAS Systems Architecture and Integration	
UNSY 237 Dronealism and Cinematography	3
UNSY 238 Concepts of Advanced Urban Air Mobility	3
UNSY 301 UAS Mapping Applications and Data Collection	1
UNSY 323 Crew Resource Management for UAS	3
UNSY 390 UAS Practicum I	3

UNSY 391 Application of UAS Technology	3
UNSY 401 Advanced UAS Flight Operations	1
UNSY 416 UAS Field Service and Sustainment	3
UNSY 423 AAM Infrastructure Development and Modeling	3
UNSY 490 UAS Practicum II	3
Total Credits	38

Program Support Courses

ASCI 309 Aerodynamics	3
ATMG 202 Introduction to Air Traffic Management	3
or ASCI 301 Introduction to Air Traffic Control	
ENGR 120 Graphical Communications	3
or ENGR 115 Introduction to Computing for Engineers	
GEOS 210 Introduction to Geographic Information Systems	3
GEOS 310 Advanced Geographic Information Systems	3
Total Credits	15

Open Electives

Open Electives - Upper Level	6
Open Electives	6
Total Credits	12

Suggested Plan of Study

Year One

Requirements	Credits
COMM 122 - English Composition	3
MATH 111 - Pre-calculus for Aviation	3
UNSY 100 - Remote Pilot Operations	2
UNSY 125 - Private and UAS Pilot Operations	3
UNSY 220 - Uncrewed Aircraft Systems	3
Semester Hours	14

Requirements	Credits
COMM 219 - Speech	3
CPSC 118 - Fundamentals of Computer Programming or CYBR 235 - Computer and Network Technologies	3
Humanities - Lower Level	3
MATH 112 - Applied Calculus for Aviation	3
UNSY 222 - Uncrewed Aircraft Systems Security	3
Semester Hours	15

Total Credits

Total Hours for All Requirements: 29

Year Two

Requirements	Credits
COMM 221 - Technical Communication	3
Social Sciences - Lower Level	3
PHYS 113 - Introductory Physics I	3
UNSY 201 - Primary UAS Flight Operations	1

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UNSY 238 - Concepts of Advanced Urban Air Mobility	3
UNSY 241 - UAS Systems Architecture and Integration	3
Semester Hours	16

Requirements	Credits
Humanities/Social Sciences - Lower or Upper Level	3
PHYS 117 - Introductory Physics II	3
PHYS 113L - Introductory Physics I Laboratory or 117L - Introductory Physics II Laboratory	1
UNSY 237 - Dronealism and Cinematography	3
Open Elective	3
ASCI 309 - Aerodynamics	3
Semester Hours	16

Total Credits

Total Hours for All Requirements: 32

Year Three

Requirements	Credits
Humanities/Social Sciences - Upper Level	3
ATMG 202 - Introduction to Air Traffic Management	3
GEOS 210 - Introduction to Geographic Information Systems	3
Open Elective	3
UNSY 301 - UAS Mapping Applications and Data Collection	1
UNSY 403 - Uncrewed Sensing Systems	3
Semester Hours	16

Requirements	Credits
UNSY 318 - UAS Robotics	3
UNSY 322 - Operational and Business Aspects of Uncrewed Aircraft Systems	3
GEOS 310 - Advanced Geographic Information Systems	3
ENGR 120 - Graphical Communications or 115 - Introduction to Computing for Engineers	3
Open Elective - Upper Level	3
Semester Hours	15

Total Credits

Total Hours for All Requirements: 31

Year Four

Requirements	Credits
UNSY 323 - Crew Resource Management for UAS	3
UNSY 324 - Global Uncrewed Aircraft Systems (UAS) Regulations	3
UNSY 390 - UAS Practicum I	3
UNSY 391 - Application of UAS Technology	3

Open Elective - Upper Level	3
Semester Hours	15

Requirements	Credits
UNSY 401 - Advanced UAS Flight Operations	1
UNSY 416 - UAS Field Service and Sustainment	3
UNSY 423 - AAM Infrastructure Development and Modeling	3
UNSY 473 - Operational Applications in Uncrewed Aircraft Systems	3
UNSY 490 - UAS Practicum II	3
Semester Hours	13

Total Credits

Total Hours for All Requirements: 28