

Unmanned Systems Associate in Applied Science

Commercial Space Operations



Take a
3D tour of
our labs.

Curriculum Requirements

Communications

Credits: 6

ENG 140	English Composition I	3
COM 107	Technical Writing	3

Mathematics-Science-Technology Credits: 9

MAT 131	College Algebra	3
PHY 105	Astronomy	3
UAS 211	Intro to Robots & Programming	3

Humanities or Social Science

Credits: 6

UAS 202	Intro to Digital Photography	3
UAS 207	Introduction to 3D Printing	3

Career Courses

Credits: 39

UAS 101	Unmanned Systems	3
UAS 103	UAS Flight Simulation	3
UAS 105	Remote Pilot Operations (Part 107)	3
UAS 106	Unmanned Aircraft Systems Safety & Security	3
UAS 108	UAS Maintenance & Repair	3
UAS 110	Introduction to DC & AC Circuits & Electronics	3
UAS 117	Overview of Commercial Space Ecosystem	3
UAS 118	Commercial Space Operational Missions & Launch Industry	3
UAS 119	Space Habitation & Life Support Systems	3
UAS 208	Advanced UAS Systems, Robotic Assembly & Operational Performance	3
UAS 209	UAS Photogrammetry, Remote Sensing & Analysis	3
UAS 210	UxS Capstone Project	3
UAS 212	Advanced Remote Sensing & Infrared Thermography	3

Credits Needed for Degree

60

Recommended Course Sequence

First Semester

Credits: 15

UAS 101	Unmanned Systems	3
UAS 103	UAS Flight Simulation	3
UAS 117	Overview of Commercial Space Ecosystem	3
MAT 131	College Algebra	3
ENG 140	English Composition I	3

Second Semester

Credits: 15

UAS 105	Remote Pilot Operations (Part 107)	3
UAS 106	Unmanned Aircraft Systems Safety & Security	3
COM 107	Technical Writing	3
UAS 119	Space Habitation & Life Support Systems	3
UAS 209	UAS Photogrammetry, Remote Sensing, & Analysis	3

Third Semester

Credits: 15

UAS 110	Introduction to DC & AC Circuits & Electronics	3
UAS 118	Commercial Space Operational Missions & Launch Industry	3
UAS 202	Introduction to Digital Photography	3
UAS 208	Advanced UAS Systems, Robotic Assembly & Operational Performance	3
UAS 211	Intro. to Robots & Programming	3

Fourth Semester

Credits: 15

PHY 105	Astronomy	3
UAS 108	UAS Maintenance & Repair	3
UAS 207	Introduction to 3D Printing	3
UAS 210	UxS Capstone Project	3
UAS 212	Advanced Remote Sensing & Infrared Thermography	3

To get more information and discuss your goals or arrange a visit contact **Sarah Van Horn** at svanhorn@warren.edu or call **908-835-4025**. To catch up on what we've been doing go to www.warren.edu/uas-news/



Dr. Joseph Warren Robotics Research Center
445 Marshall Street, Phillipsburg, NJ 08865
Flight Training Center
475 Route 57 West, Washington, NJ 07882

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From commercial space launches to the global support for the International Space Station, the growth in space applications is unprecedented. This specialized program option addresses space as applied to the current global space industry. The program offers a broad understanding of the different aspects of the global space industry, including applications in space (commerce, defense, exploration, and science), mission and launch operations, space habitation

and life support systems, as well as remote sensing and satellite operations. The program explores current strategies and private sector and government responses to exploit space for commercial business enterprise development through a multidisciplinary approach to rapidly changing space technologies and commercial opportunities for space exploration and business investment.

Notes

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Warren
Community College

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