

Unmanned Systems Associate in Applied Science

Photogrammetry



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 104	Technical Math	3
UAS 203	Meteorology	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 102	UAS Standards, Regulations & the Law	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 109	Crew Resource Management for UAS	3
UAS 110	Introduction to DC & AC Circuits & Electronics	3
UAS 204	Introduction to Geographic Information 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

ENG 140	English Composition I	3
MAT 104	Technical Math	3
UAS 101	Unmanned Systems	3
UAS 102	UAS Standards, Regulations, & Law	3
UAS 103	UAS Flight Simulation	3

Second Semester

Credits: 15

COM 107	Technical Writing	3
UAS 105	Remote Pilot Operations (Part 107)	3
UAS 106	Unmanned Aircraft Systems Safety & Security	3
UAS 209	UAS Photogrammetry, Remote Sensing, & Analysis	3
UAS 212	Advanced Remote Sensing & Infrared Thermography	3

Third Semester

Credits: 15

UAS 109	Crew Resource Management for UAS	3
UAS 110	Introduction to DC & AC Circuits & Electronics	3
UAS 211	Intro. to Robots & Programming	3
UAS 202	Introduction to Digital Photography	3
UAS 208	Advanced UAS Systems, Robotic Assembly & Operational Performance	3

Fourth Semester

Credits: 15

UAS 108	UAS Maintenance & Repair	3
UAS 203	Meteorology	3
UAS 204	Intro to Geographic Information Systems	3
UAS 207	Introduction to 3D Printing	3
UAS 210	UxS Capstone Project	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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The Associate in Applied Science Unmanned Systems degree is designed to prepare students to enter the fast growing industry of unmanned systems which consists of air, ground, and maritime unmanned vehicles. Unmanned vehicles are used today in an ever-increasing number of industries such as surveying, construction, mining, environmental sciences, agriculture, commercial package delivery, public utilities/energy, cinematography and photography, search & rescue, public safety/law enforcement, and commercial space operations.

Students in this program will learn data collection, processing, and analysis using manually piloted and autonomous craft. Students will master aviation safety management systems and risk mitigation. Students will also be prepared to take the FAA Aeronautical Knowledge exam which will earn them a Remote Pilot Certificate (Part 107). Through dedicated robotics classes, students will become familiar with various components and circuitry common to most systems. Students will learn maintenance & repair skills and be introduced to manufacturing techniques and programming.

Notes

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's resting on a surface.

Warren
Community College

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