

Small Unmanned Aircraft Systems Field Technician, Associate in Applied Science

This program prepares students for a career as a small-unmanned aircraft systems technician. Upon successful completion of the program students will demonstrate basic proficiency in the area of small UAS operations, general maintenance and repair, the use of a small UAS for the collection of and pre and post-processing of aerial images and videos, and geospatial data collection. Students are required to sit for, and pass a federal aviation administration aeronautical knowledge examination. Passing the examination leads to the earning of The Federal Aviation Administration's Remote Pilot Certificate with a Small Unmanned Aircraft Systems Rating. The RPC grants the holder the rights and privileges to safely operate for commercial purposes a less than 55 lbs. drone in the National Airspace System. This program requires off campus fieldtrips and fieldwork. Students are required to develop a portfolio containing examples of completed projects and selected examples of coursework.

For additional information, please contact faculty advisor, James Taggart at (609) 343-4950 or jtaggart@atlantic.edu, or Aviation Division Chair, Timothy Cwik, at (609) 343-4992 or tcwik@atlantic.edu.

Upon completion of this program students will be able to:

- Earn a Federal Aviation Remote Pilot Certificate with a Small Unmanned Aircraft Systems Rating;
- Safely execute the rights and privileges of a remote pilot in command of a less than 55 pound small unmanned aircraft system;
- Safely maintain and repair a small unmanned aircraft system;
- Perform safety inspections and explain the benefits of recordkeeping;
- Effectively support the collection of various types of data and process that data into actionable intelligence.

(SUAS-Fall 2020)

Program: [Aviation](#)

General Education Courses

When a course is not specified, refer to the list of approved General Education courses.

Communication

Course #	Title	Credits:
ENGL101	Composition I	3
ENGL203	British Literature I	3

Mathematics-Science-Technology

Course #	Title	Credits:
CISM125	Introduction to Computers	3

Social Science or Humanities

Course #	Title	Credits:
	General Education Humanities Course (3 Credits)	3

General Education Electives

Choose 8 credits of General Education courses

(Students are strongly encouraged to meet with their faculty advisor before making a choice.)

Course #	Title	Credits:
	General Education Course (4 Credits)	4
	General Education Course (4 Credits)	4

Program Courses

Course #	Title	Credits:
ATCT120	Aviation Weather	3
AVIT140	Small Unmanned Aircraft Systems Operation-Multi-Rotor	3
AVIT185	Remote Sensing Using Unmanned Aircraft Systems	4
AVIT225	Mobilizing a Drone-Powered Economy	3
AVIT245	Professional sUAS Operations	3
AVIT250	sUAS Maintenance & Repair	4
TVRF/AVIT263	Aerial Video Production	1
AVIT290	UAS Capstone Project	1
CISM143	Introduction to Project Management	3
CISM280	Capstone Portfolio	1
ENGR125	Introduction to Electronics	4
CISM/ENVL122	Agricultural Technology	3
GIST101	Introduction to Geographic Information Systems	4

Program Electives

Choose three credits from the following course alphas:

ACCT, AVIT, BUSN, CISM, OSTM, TCOM, TVRF

Course #	Title	Credits:
	Program Elective Course (3 Credits)	3

Recommended sequence of courses:

First Semester

Course #	Title	Credits:
ATCT120	Aviation Weather	3
AVIT140	Small Unmanned Aircraft Systems Operation-Multi-Rotor	3
AVIT245	Professional sUAS Operations	3
CISM125	Introduction to Computers	3
ENGL101	Composition I	3

Second Semester

Course #	Title	Credits:
AVIT185	Remote Sensing Using Unmanned Aircraft Systems	4
GIST101	Introduction to Geographic Information Systems	4
	General Education Humanities Course (3 Credits)	3
ENGL230	Technical Writing	3

Third Semester

Course #	Title	Credits:
AVIT225	Mobilizing a Drone-Powered Economy	3
CISM143	Introduction to Project Management	3
ENGR125	Introduction to Electronics	4
CISM/ENVL122	Agricultural Technology	3
	General Education Course (4 Credits)	4

Fourth Semester

Course #	Title	Credits:
AVIT250	sUAS Maintenance & Repair	4
TVRF/AVIT263	Aerial Video Production	1
AVIT290	UAS Capstone Project	1
CISM280	Capstone Portfolio	1
	Program Elective Course (3 Credits)	3
	General Education Course (4 Credits)	4
	Total credits:	60