Remotely Piloted Aircraft Systems

Associate in Applied Science Degree

This program is a curriculum of sequential technical courses encompassing the mechanical and electrical systems and operations found in remotely piloted aircraft systems. It offers students the opportunity to work as pilots, operators and/or mission team members of remotely piloted aircraft systems while fully understanding the operational and safety environments of the National Airspace System.

Total Credit Hours: 64

First Semester

CF100 College Foundations Seminar	1.0
EN101 English 1: Composition	3.0
CT265 Introduction to GIS	3.0
FB101 Intro to Model and Fabrication	3.0
UA120 RPAS Oprtnl and Indus Oprtns	3.0
ET112 Elec of Remot Pilot Air System	3.0
Physical Education Elective	0.5

Second Semester

EN102 English 2:Idea&Values Lit	3.0
UA102 Introduction to Remote Sensing	3.0
CT267 Advanced GIS	3.0
UA215 RPAS Mission Planning and Ops	3.0
UA121 Mechanics of RPAS	3.0
Physical Education Elective	0.5

Third Semester

CT153 Introduction to GPS	3.0
UA217 RPAS Operations 1	3.0
UA218 RPAS Operations 2	3.0
PT205 History/Photography 1	3.0
MA110 Elementary Statistics	3.0
Physical Education Elective	0.5

Fourth Semester

CT266 Capstone GIS	3.0
CI104 Introduction to Cybersecurity	3.0
GL101 Physical Geology	4.0
GE101 Essen of World Geography	3.0
UA221 Special Topics in RPAS Ops	3.0
Physical Education Elective	0.5

Program Micro-credentials:

Remotely Piloted Aircraft Systems Maintenance

This micro-credential will provide a mid-program milestone for RPAS students as well as a mechanism to upskill the incumbent workforce to perform maintenance and routine service of RPAS, ensuring the aircraft conforms to design and and safe operating conditions. Courses include:

- FB101 - Introduction to Modeling & Fabrication 3 cr.
- ET112 - Electronics of RPAS 3 cr.
- UA121 - Mechanics of RPAS 3 cr.

Remotely Piloted Aircraft Systems Operations

This micro-credential will provide a mid-program milestone for RPAS students as well as a mechanism to upskill the incumbent workforce to perform as RPAS pilots and mission planners for both multirotor and fixed wing RPAS. Courses include:

- UA120 - RPAS Operations & Industrial Operations 3cr.
- UA215 - RPAS Mission Planning & Operations 3 cr.
- UA217 - RPAS Operations 1 3 cr.
- UA218 - RPAS Operations 2 3 cr.

Remotely Piloted Aircraft Systems Data Analysis

This micro-credential will provide a mid-program milestone for RPAS students as well as a mechanism to upskill the incumbent workforce to collect, validate, georeference, and analyze data rendered from RPAS missions. Courses include:

- CT153 - Introduction to Global Positioning Systems 3 cr.
- UA102 - Introduction to Remote Sensing 3 cr.
- CT265 - Introduction to Geographic Information Systems 3 cr.
- CT267 - Advanced Geographic Information Systems 3 cr.
- CT266 - Capstone in Global Positioning Systems 3 cr.