

## UNMANNED SYSTEMS (Drone Technology)

### Associate in Applied Science

#### Curriculum Requirements

##### Communications **Credits: 6**

- |  |   |
|--|---|
| <input type="checkbox"/> ENG 140 English Composition I                                 | 3 |
| <input type="checkbox"/> COM 107 Technical Writing & Communication/Air Traffic Control | 3 |

##### Mathematics-Science-Technology **Credits: 9**

- |   |   |
|---|---|
| <input type="checkbox"/> MAT 104 Technical Math                       | 3 |
| <input type="checkbox"/> UAS 203 Survey of Aviation Meteorology       | 3 |
| <input type="checkbox"/> UAS 211 Introduction to Robots & Programming | 3 |

##### Humanities or Social Science **Credits: 6**

- |  |   |
|--|---|
| <input type="checkbox"/> UAS 202 Introduction to Digital Photography | 3 |
| <input type="checkbox"/> UAS 207 Introduction to 3D Printing         | 3 |

##### Career Courses **Credits: 39**

- |   |   |
|---|---|
| <input type="checkbox"/> UAS 101 Unmanned Systems   | 3 |
| <input type="checkbox"/> UAS 102 UAS Standards, Regulations & the Law                             | 3 |
| <input type="checkbox"/> UAS 103 UAS Flight Simulation  | 3 |
| <input type="checkbox"/> UAS 104 Understanding Airspace & the FAA                                 | 3 |
| <input type="checkbox"/> UAS 105 Remote Pilot Operations  | 3 |
| <input type="checkbox"/> UAS 106 Unmanned Aircraft Systems Safety & Security                      | 3 |
| <input type="checkbox"/> UAS 108 UAS Maintenance & Repair   | 3 |
| <input type="checkbox"/> UAS 109 Crew Resource Management for UAS                                 | 3 |
| <input type="checkbox"/> UAS 110 Introduction to DC 7 AC Circuits & Electronics                   | 3 |
| <input type="checkbox"/> UAS 204 Introduction to Geographic Information Systems                   | 3 |
| <input type="checkbox"/> UAS 208 Advanced UAS Systems, Robotic Assembly & Operational Performance | 3 |
| <input type="checkbox"/> UAS 209 UAS Photogrammetry, Remote Sensing & Analysis                    | 3 |
| <input type="checkbox"/> UAS 210 Unmanned Systems Capstone Project                                | 3 |

**Credits Needed for Degree** **60**

#### Recommended Course Sequence

##### First Semester **Credits: 15**

- |   |   |
|---|---|
| ENG 140 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 & Communications/<br>Air Traffic Control | 3 |
| UAS 104 Understanding Airspace & the FAA                           | 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 |

##### Third Semester **Credits: 15**

- |  |   |
|--|---|
| UAS 109 Crew Resource Management for UAS                                 | 3 |
| UAS 110 Introduction to DV 7 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 Survey of Aviation Meteorology                 | 3 |
| UAS 204 Introduction to Geographic Information Systems | 3 |
| UAS 207 Introduction to 3D Printing                    | 3 |
| UAS 210 Unmanned Systems Capstone Project              | 3 |

## **UNMANNED SYSTEMS (Drone Technology)**

### **Associate in Applied Science**

The Associate in Applied Science Unmanned Systems degree is primarily designed and intended to prepare students for a fast growing industry with many civilian applications, including agriculture, wetlands maintenance, brownfields remediation, monitoring environment and wildlife, search and rescue, border security, fire mapping, surveying structures after natural disasters, transportation and construction maintenance, real estate photograph, police surveillance, motion pictures, news media video and other industries.