

## UNMANNED AERIAL SYSTEMS (Drone Technology) Associate in Applied Science

### Curriculum Requirements

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

- |  |   |
|--|---|
| <input type="checkbox"/> ENG 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 102 Technical Math                         | 3 |
| <input type="checkbox"/> UAS 203 Survey of Aviation Meteorology         | 3 |
| <input type="checkbox"/> UAS 211 Introduction to Robotics & Programming | 3 |

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

- |   |   |
|---|---|
| <input type="checkbox"/> UAS 202 Introduction to Digital Printing | 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 UAS Capstone Project   | 3 |

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

### Recommended Course Sequence

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

- |   |   |
|---|---|
| ENG 140 Composition I                     | 3 |
| MAT 103 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 FFA                           | 3 |
| UAS 105 Remote Pilot Operations (Part 107)                         | 3 |
| UAS 106 UAS 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 Intro. 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 Intro. to Geographic Information Sys. | 3 |
| UAS 207 Intro. to 3D Printing                 | 3 |
| UAS 210 Unmanned Systems Capstone             | 3 |



## **UNMANNED AERIAL 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 & construction maintenance, real estate photograph, police surveillance, motion pictures, news media video and other industries.