

## DRONE REPAIR AND MAINTENANCE Certificate

The Certificate in Drone Repair and Maintenance is primarily designed and intended to prepare students to repair and maintain unmanned systems. The small Unmanned Aircraft Systems (sUAS) certificate will concentrate on the maintenance and repair of the components of unmanned systems to include: unmanned aircraft vehicles (UAVs), ground control stations (GCSs), battery maintenance, understanding the function of data links or the communication/guidance system between vehicle and satellites (line of sight), and a basic understanding of computer networks and their functionality within UAS. Courses are designed to create a skilled UAS Maintenance Technician with a broad understanding of commonly used UAS platforms at the functional level.

### Curriculum Requirements

**Credits: 6**

- |                          |         |                       |   |
|--------------------------|---------|-----------------------|---|
| <input type="checkbox"/> | ENG 140 | English Composition I | 3 |
| <input type="checkbox"/> | MAT 104 | Technical Mathematics | 3 |

### Career Courses

**Credits: 24**

- |                          |         |                                                                     |   |
|--------------------------|---------|---------------------------------------------------------------------|---|
| <input type="checkbox"/> | UAS 101 | Unmanned Systems                                                    | 3 |
| <input type="checkbox"/> | UAS 105 | Remote Pilot Operations                                             | 3 |
| <input type="checkbox"/> | UAS 108 | UAS Maintenance and Repair                                          | 3 |
| <input type="checkbox"/> | UAS 110 | Introduction to DC 7 AC Circuits<br>& Electronics                   | 3 |
| <input type="checkbox"/> | UAS 205 | Embedded Computing                                                  | 3 |
| <input type="checkbox"/> | UAS 208 | Advanced UAS Systems, Robotic<br>Assembly & Operational Performance | 3 |
| <input type="checkbox"/> | UAS 209 | UAS Photogrammetry, Remote Sensing<br>& Analysis                    | 3 |
| <input type="checkbox"/> | UAS 211 | Introduction to Robots &<br>Programming                             | 3 |

**Total Credits Needed for Certificate**

**30**