

# DRONE MAINTENANCE AND REPAIR TECHNICIAN CERTIFICATE

---

Division: Technology and Engineering

PROGRAM CODE: 2C46119

The Drone Maintenance and Repair Technician Certificate trains students on the skills needed to repair and maintain small uncrewed aerial systems. It will also provide them knowledge on safe operations of an sUAV in use for the commercial uncrewed aerial industry. Students will learn all the components of UAVs and how to repair them. They will also have the opportunity to earn their FAA Part 107 Remote Pilot Certificate before earning this certificate. This certificate requires a total of 18 units. A grade of C or better is required in each course taken.

| Code                                | Title                                   | Units     |
|-------------------------------------|---|-----------|
| <b>Required Courses (18 units):</b> |   |           |
| CIS 201 F                           | Introduction to Python Programming      | 3         |
| DRAF 944 F                          | Solidworks                              | 3         |
| DRON 101 F                          | Basic Drone Piloting                    | 2         |
| DRON 140 F                          | Basic Drone Maintenance and Repair      | 3         |
| DRON 240 F                          | Advanced Drone Maintenance              | 3         |
| DRON 255 F                          | Applied Drone Lab                       | 2         |
| TECH 131 F                          | Basic Electricity and Basic Electronics | 2         |
| <b>Total Units</b>                  |   | <b>18</b> |

## Program Level Student Learning Outcomes

**Outcome 1:** Assess and repair a quad copter equipped with brushless motors.

**Outcome 2:** Report deficiencies in electronic, flight control, and/or motor systems of an autonomous system.

**Outcome 3:** Create a simple program for use in an autonomous system.

---

[https://www.curricunet.com/fullerton/reports/program\\_report.cfm?programs\\_id=1336](https://www.curricunet.com/fullerton/reports/program_report.cfm?programs_id=1336)