

DRONE PILOT Certificate

The Certificate in Drone Pilot program is designed to train students to become a commercial drone pilot. Upon completion of the program, students will be prepared to both pass the FAA Aeronautical Knowledge Test for a Remote Pilot Certificate and gain the knowledge needed to excel in high traffic airways. Students will be educated as pilots and technicians to operate small unmanned aerial vehicles (sUAS (drones) .55 lbs to less than 55lbs). At a minimum, students will train on simulation software, and at the WCCC “Droneport” on DJI’s Phantom 3 SE, Phantom 4 Pro, Mavic Pro, Inspire as well as Yuneec Typhoon 4 Pro and Yuneec Tornado.

Components of the program include: the Mechanics of Unmanned Systems; Principles of Flight; Principles of flight; Private Pilot Theory; Advanced Unmanned Aerial Systems Operations; Payloads and Sensors; Aviation Safety Management Systems; Air Traffic Control Systems. Students are instructed in the theory, functions, and regulations regarding small unmanned systems.

Curriculum Requirements

Credits: 6

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

Career Courses

Credits: 24

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|--------------------------|---------|---|---|
| <input type="checkbox"/> | UAS 102 | National Airspace Systems/UAS Standards, Regulations, & Law | 3 |
| <input type="checkbox"/> | UAS 103 | UAS Flight Simulation | 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 204 | Introduction to Geographic Information Systems | 3 |
| <input type="checkbox"/> | UAS 209 | Photogrammetry, Remote Sensing, & Analysis | 3 |

Total Credits Needed for Certificate

30