

# UNMANNED AERIAL SYSTEMS (UAS)

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## UAS 107 - Remote Pilot Ground

**Credit Hours: 3, Contact Hours: 3**

Division: Aviation

This course is structured to provide the student with the knowledge to pass the FAA Remote Pilot written test. This certification is required to be a Commercial Drone Operator. Topics include: airport operations, aircraft performance, regulations, meteorology, airspace, maintenance, UAS operations, risk assessment/management. As part of this course, students will earn Part 107 Remote Pilot Certification. This course will be completed upon the student passing the FAA Remote Pilot written exam. FAA testing fee is not included in the course fee. Group 2 course.

## UAS 131 - UAS in Law Enforcement

**Credit Hours: 1, Contact Hours: 2**

Division: Aviation

This lab course is designed to give the student the background necessary to operate drones for law enforcement applications. Students will be prepared to take the FAA Remote Pilot written test, which is required to operate drones for law enforcement purposes. Students will also receive hands-on training to develop flight skills and learn more about using drones for law enforcement purposes. Passing the FAA Remote Pilot written exam is a requirement of the class. Group 2.

## UAS 141 - Remote Pilot Flight

**Credit Hours: 3, Contact Hours: 4**

Division: Aviation

Students will be introduced to the world of Unmanned Aerial Systems. This course takes a look at everything from current Unmanned Aircraft Systems to future civilian applications. In addition to learning about this new industry, students will be introduced to flying remotely piloted aircraft and operating entry level Unmanned Aerial Vehicles. Group 2 course.

## UAS 211 - Commercial Drone Operations

**Credit Hours: 3, Contact Hours: 4**

Division: Aviation

This course will guide students deeper into the Unmanned Aerial Systems industry. Topics such as aerial mapping, land survey, agricultural applications and industrial inspections will be covered in this lecture/lab based class. In addition, the student will be introduced to operating professional Unmanned Aerial Systems. Group 2 course.

Required Prerequisite(s): UAS 107 or AVG 142, and UAS 141 or AVF 141

## UAS 220 - UAS Projects and Maintenance

**Credit Hours: 3, Contact Hours: 4**

Division: Aviation

This hands-on course will give the student an opportunity to build and test fly both multirotor and fixed wing aircraft. The course focuses on building and maintenance techniques, autopilot integration, flight tuning, power sources, servos and communication links. Group 2 course.

Required Prerequisite(s): UAS 107 or AVG 142, and UAS 141 or AVF 141

## UAS 241 - Advanced Drone Operations

**Credit Hours: 3, Contact Hours: 4**

Division: Aviation

This lecture and lab based course will introduce the student to advanced autopilot programming and more complex UAS operations such as gas powered fixed wing aircraft. Students will also be applying crew resource management and risk assessment techniques to their operations. Group 2 course.

Required Prerequisite(s): UAS 211 or AVF 211

## UAS 255 - UAS Safety Management

**Credit Hours: 2, Contact Hours: 2**

Division: Aviation

This online course will introduce remote pilots to the four pillars of a safety management system to include safety policy, safety risk management, safety assurance and safety promotion. Additionally, this course will explore, through exercises and readings, the process for incorporating these principles into a small UAS flight service company. Group 2 course.

Required Prerequisite(s): UAS 241 or AVF 241

## UAS 260 - Aerosonde UAS Ground Training

**Credit Hours: 4, Contact Hours: 5**

Division: Aviation

This ground school and simulator course will provide the foundation training on the Textron Aerosonde UAS platform, one of the leading UAS platforms in the U.S. Students will learn the systems and operational procedures along with in-depth simulator training that will prepare them for the Aerosonde UAS Flight course. Group 2 course.

Required Prerequisite(s): UAS 255

## UAS 261 - Aerosonde UAS Flight Training

**Credit Hours: 3, Contact Hours: 4**

Division: Aviation

This hands-on flight course allows students to earn a manufacturer's certification from one of the leading UAS platforms manufacturers in the U.S. Students will participate in live flight training utilizing the Aerosonde Small UAS platform, a leading platform currently operated for U.S. Department of Defense customers around the globe. Group 2 course.

Required Prerequisite(s): UAS 260 or AVG 260