

# AVF 211 - COMMERCIAL DRONE OPERATIONS

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## Course Description

This course will guide students deeper into the Unmanned Aerial Systems Industry. Topics will include Federal Regulations for UAS, components of Unmanned Aerial Vehicles, autopilot programming and flight plan development. Students will be working with UAS autopilot simulators and also be introduced to flying professional UAS systems. Group 2 course.

## Credit Hours

4

## Contact Hours

4

## Lecture Hours

4

## Required Prerequisites

AVF 141, AVG 142

## Recommended Prerequisites or Skills Competencies

AVG 101

## Course Learning Outcomes

### Knowledge:

- Per the FAA Airmen Certification Standards (ACS), students explain Remote Pilot Areas of Operation in accordance with ACS requirements.

### Application:

- Per the FAA Airmen Certification Standards (ACS), demonstrate competences on Remote Pilot Areas of Operation during ground and flight evolutions in accordance with ACS requirements.

### Integration:

- Per the FAA Airmen Certification Standards (ACS), use problem solving strategies when mitigating risks encompassing personal minimums and maintaining fitness to fly in accordance with ACS requirements.

### Human Dimension:

- Per the FAA Airmen Certification Standards (ACS), evaluate their fitness to fly illustrating sound decision making and judgment.

### Caring - Civic Learning:

- Describe how their decisions and actions impact their aircraft, its sensors and people on the ground.
- Recognize the need for ensuring aviation safety and public perception of the unmanned aircraft industry.

### Learning How to Learn:

- Per the FAA recurrent training requirements, integrate prior learning and experiences to provided scenarios.
- Implement their own positive study habits for recurrent training requirements of the FAA.