

AVF 241 - ADVANCED DRONE OPERATIONS

Course Description

Students will apply what they have learned in previous courses by working largely in the field conducting simulated and real life flight missions. This course focuses on applying Unmanned Aerial Systems to future civilian applications such as inspections, aerial mapping, and aerial photography. Group 2 course.

Credit Hours

3

Contact Hours

4

Lecture Hours

2

Lab Hours

2

Required Prerequisites

AVF 141 and either AVF 211 or AVG 210

Course Learning Outcomes

Knowledge:

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

Application:

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

Integration:

- Per the FAA Airmen Certification Standards (ACS), demonstrate problem solving skills when mitigating risks encompassing personal minimums and maintaining fitness to fly in accordance with ACS requirements.
- Incorporate these personal habits into all future flights.

Human Dimension:

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

Caring - Civic Learning:

- Recognize how their decisions and actions impact their aircraft, its sensors and people on the ground.
- Describe how their actions affect 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 as they prepare for recurrent training requirements of the FAA.