UAS 211 - COMMERCIAL DRONE OPERATIONS

Course Description

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.

Credit Hours

3

Contact Hours

4

Lecture Hours

2

Lab Hours

2

Required Prerequisites

UAS 107 or AVG 142, and UAS 141 or AVF 141.

Course Learning Outcomes

Knowledge:
- Describe characteristics of a professional UAS operator.
- Recognize UAS terminology relative to aerial mapping, land surveying, agricultural applications, topographical mapping, crop scouting and industrial inspections.

Application:
- Develop critical thinking and applied learning skills relative to the UAS field.
- Evaluate flight situations and possible outcomes.
- Apply UAS operational terminology in a controlled environment.

Integration:
- Connect decision making processes and problem solving skills with a variety of flight conditions and scenarios.
- Integrate commercial level flight data with UAS software to create accurate topographical maps, 3D modules.

Human Dimension:
- Critically reflect upon skills, knowledge and abilities necessary to succeed in the UAS industry.
- Communicate with small groups to identify crew resource management.
- Negotiate crew resource management in UAS operations.

Caring - Civic Learning:
- Explore roles UAS technology will play in future generations and societies.
- Recognize the need for ensuring aviation safety and public perception of the unmanned aircraft industry.

Learning How to Learn:
- Transfer prior knowledge and experiences to flight scenarios.
- Generalize decision making processes as they approach different life problems.
- Predict future applications of current industry technology.
- Self-assess personal skills and knowledge in order to identify deficiencies.