



COURSE OUTLINE FOR CREDIT COURSE

Basic Course Information

Courses numbered 1 - 49 are remedial or college preparatory courses which do not apply toward an A. A. Degree and are not intended for transfer. Courses numbered 50-99 apply toward an AA Degree, but are not intended for transfer. Courses numbered 100 and higher apply toward an AA Degree and/or are intended for transfer to a four-year college or university.

Discipline: GEOL

Course Number: 159

Title: Small Unmanned Aircraft Systems for Veterans

Units and Hours

Units: 18.00

Grade Option: Grade/Pass/No Pass

Course Length in Weeks: Min Weeks - 16 Max Weeks - 18

Semester Hours

| Hour Type | Hours | Min Semester Hours | Max Semester Hours |
|-------------------|-------|--------------------|--------------------|
| Lecture Category | 1.00 | 16.00 | 18.00 |
| Lab Category | 0.00 | 0.00 | 0.00 |
| Subtotal | 1.00 | 16.00 | 18.00 |
| Out of Class Hour | 2.00 | 32.00 | 36.00 |
| Totals | 3.00 | 48.00 | 54.00 |

Grading Basis: Grade/Pass/No Pass

Basic Skills Requirements: Appropriate Language and/or Computational Skills.

Requisites

To satisfy a prerequisite, the student must have earned a letter grade of A, B, C or P(Pass) in the prerequisite course, unless otherwise stated.

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| Prerequisite: None |
| Corequisite (Course required to be taken concurrently): None |
| Prerequisite: (Completion of, or concurrent enrollment in): None |
| Recommended Preparation: None |
| Limitation on Enrollment (e.g. Performance tryout or audition): None |

Catalog Description

This course will assist students, especially those in military service, with transitioning into the career field of unmanned aircraft systems (UAS), more commonly known as "drones." This course will consist of a series of guest speakers with military backgrounds and current industry experience in UAS. Each speaker will address a different career opportunity, including how to start a drone business, search hand rescue, videography, as well as career and contracting opportunities for veteran-owned small businesses.

Student Learning Outcomes

Upon successful completion of the course, the student will be able to:

1. Upon successful completion of this course, the student will be able to outline the process of transitioning from active or non-active duty to an educational setting and eventually a career in the UAS industry.
 2. Upon successful completion of this course, the student will be able to assess and apply to UAS opportunities that are most relevant to their career goals.
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Specific Course Objectives

Upon successful completion of the course, the student will be able to:

1. Recall and explain the steps required to complete all preflight operations.
 2. Identify and assess UAS-related volunteer and internship opportunities.
 3. Locate and identify small and large sector UAS employment opportunities.
 4. Explain the importance of thorough marketing and competition research for UAS entrepreneurship.
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Methods of Instruction

Methods of Instruction may include, but are not limited to, the following

1. Demonstration
 2. Discussion
 3. Guest Speakers
 4. Videos/Film
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Content in Terms of Specific Body of Knowledge

- I. UAS Opportunities
 - A. Volunteer work
 - B. Internships
 - C. Careers
 - i. Search and Rescue
 - ii. Flight Instructor
 - iii. Videography and Film
 - iv. Real Estate
 - v. Construction
 - D. Small sector employment
 - E. Large sector employment
 - II. Entrepreneurship
 - A. Market and competition research
 - B. Marketing strategies
 - C. Available resources
 - D. Education opportunities
 - E. Importance of volunteer work
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Textbooks/Resources

There are no Textbooks/Resources.

Assignments

Required Reading:

Students will be required to read through the FAA's Guidelines for Civil and Commercial Drone Use, also known as Know Before You Fly.

Suggested Reading:

Students are encouraged to read the read the official FAA Remote Pilot sUAS Study Guide and lecture presentations.

Required Writing:

Students are expected to produce a summary of each topic and critically evaluate how it relates to their career goals. Each week students will participate in an online discussion about each topic.

Critical Thinking:

Students are encouraged to read through a number of volunteer, internship, and employment opportunities and evaluate each with respect to their career goals.

Outside Assignments:

Students are expected to research each topic presented. This will include searching for volunteer and internship opportunities, contacting veterans services, and passing the FAA Part 107 exam.

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

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Methods of Assessment

Methods of Assessment may include, but are not limited to, the following:

1. Class Participation
 2. Class Work
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Open Entry/Open Exit

Not Open Entry/Open Exit

Repeatability

Course is Repeatable for Reasons other than a Deficient Grade? No

Contact Person

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