

# Fundamentals of Drones

GEOG - 2550 001

## Course Student Learning Outcomes

---

- Compare the public perceptions, privacy concerns, public safety, and defense regarding drones.
- Describe the legal aspects of drone operations, FAA regulations, and National Air Space.
- Apply payloads, mission planning, and drone control and recovery systems.
- Identify the parts of a drone, how they operate, safety concerns, and methodology for safe operations.
- Discuss the communication methods with air traffic control and the information necessary for flight operations.
- Identify weather patterns and hazards that affect flight operations.
- Implement pre-flight, in-flight, and post-flight safety procedures and risk assessments.
- Operate various drone maneuvers and take photographs and videos while in flight.

## Course Prerequisites

---

None

## Engagement Plan

---

- I will respond to email within 48 hours. I will offer feedback on major assignments within one week of the due date. The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.
- Additionally, I will be participating in the discussion forums with you to share my perspective within the discipline and to offer some nuances of interpretation that

may not be present in your textbook.

- Lastly, we'll be holding small group Q & A sessions, where we can learn from our peers (and faculty) on some of the more difficult units within the course.

## Brief Description of Assignments/Exams

---

The purpose of this course has two parts. The first part is to teach students on how to be prepared to successfully pass the [FAA Part 107 Exam](#) to be licensed as a commercial drone pilot.

Each module will have a quiz that will test students' knowledge on the content the FAA will expects them to know.

There will also be a final exam that will mimic the actual exam the FAA typically administers to become a commercial drone pilot.

The other aspect of the course focuses on the skill sets the industry expects commercial drone pilots to successfully do in a professional and ethical manner. At the end of the course, students will need to demonstrate competency in the top 20 drone flying skill sets expected to be a commercial drone pilot.

## Assignment Schedule

---

Due Date	Assignment Name	Assignment Type	Points
9/9/24	<a href="#">2.1 Assignment   Airspace Classification</a>	Assignment	20

## Grading Scale

---

Grade	Score Range
A	100 - 94 percent
A-	93 - 90 percent

B+	89 - 87 percent
B	86 - 84 percent
B-	83 to 80 percent
C+	79 - 77 percent
C	76 - 74 percent
C-	73 - 70 percent
D+	69 - 67 percent
D	66 - 64 percent
D-	63 - 60 percent
E	Less than 60 percent

## How to Navigate to Canvas

---

## Institutional Policies

---

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the [Institutional Syllabus](#) page.

## Learning Support and Tutoring Services

---

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the [Institutional Syllabus](#) page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

## [Advising and Counseling Support Services](#)

---

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, visit the [Institutional Syllabus](#) page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

## [Student Academic Calendar](#)

---

As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)