

GSTC 107 – FAA Part 107 Remote Pilot Certification Prep Detailed Information

GSTC 107, FAA Part 107 Remote Pilot Certification Prep

Instructors

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Location/Times

August 8th to August 12th

Harrisburg University, the Capital City Airport, and Adams Ricci Park

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Highlights

- ✓ Attending the FAA Part 107 Remote Pilot Certification Prep course is free of charge
- ✓ Receive a DJI Mini 2 Fly More Combo drone to keep at no cost provided through FAA funding
- ✓ Two free field trips to the following locations:
 - ▶ The Capital City Airport
 - ▶ Flight field at Adams Ricci Park
- ✓ FAA Part 107 Exam fee prepaid at the end of the course
- ✓ Teachers earn both approval as College in High School (CiHS) faculty and drone certification*
- ✓ Students can earn **both college credit and drone certification***

*Given the individual (student or teacher) passes the FAA Part 107 Certification Exam



Description

This course will contain the content required to pass the FAA exam, which includes topic area modules related to Remote Pilot Certification knowledge and an overview of common Geospatial Technology applications of drones, such as mapping and multi-spectral sensing. Numerous field days will be included to provide hands-on drone flying experiences and piloting principles. It is expected that the students will be prepared to pass the FAA Part 107 Remote Pilot Certification exam at the end of the course. In addition to certification knowledge and geospatial applications, students will be introduced to aspects of starting a drone business and the pathways to careers in manned aircraft and airport operations.

This initial offering will be a Train the Teacher effort to prepare High School Teachers to deliver the content as a College in the High School (CiHS) course for Harrisburg University credits.

Structure

This course will be conducted in a face-to-face classroom setting with lecture and applied in-class exercises making up much of the class time. One half day, scheduled based on weather, will be conducted in an open Class G airspace facility for drone operations review and an additional half day will be scheduled at Capitol City Airport to review manned aviation and airport operations. Assignments will also be given as homework outside of class time.

Learning Outcomes

LO 1: Recall and demonstrate the knowledge to pass the FAA Remote Pilot Certification Exam.

LO 2: Demonstrate and summarize understanding of sUAS applications and rapidly expanding aviation career opportunities.

LO 3: Apply knowledge of FAA standards to develop mission plans and operational guidelines for sUAS.

Materials & Requirements

Required Text(s):

Remote Pilot Test Prep 2021 (ASA Test Prep Series) Paperback – November 17, 2020

Recommended Text:

[Remote Pilot – sUAS Airman Certification Standards \(Links to an external site.\)](#)

Recommended Readings:

Module specific readings will be made available via Canvas.

DJI Mini 2 Fly More Combo:

Provided as part of initial course offering through FAA funding.



Outline & Schedule

(The following is a high-level schedule for the course. Refer to LMS for due dates and assignment information.)

Modules	Topic	Assignments
1	Course Overview	None
2	Regulations and Restrictions	Formative Quiz and review activity
3	Airspace Classification	Formative Quiz and Airspace Planning Assignment
4	Weather, Loading, and Aerodynamic Performance	Formative Quiz and review activity
5	Emergency and Radio Communication Procedures	Formative Quiz and review activity
6	Physiological Factors and Aeronautical Decision Making	Formative Quiz and review activity
7	Airport Operations	Formative Quiz and Airport Operation Scenario Assignment
8	Maintenance and Preflight	Formative Quiz and review activity
9	Nighttime Operations	Formative Quiz and review activity
10	Mission Planning	Formative Quiz and Comprehensive Mission Plan Assignment*
11	Geospatial Applications of sUAS	Formative Quiz & GIS Imagery lab Activity
11	Running an sUAS Business	Quiz and review activity
12	Pathways to Manned Aviation Careers field activities)	Quiz and review activity
13	Manned aircraft and airport operations	Quiz and review activity
14	sUAS Operation (field activities)	Flight test
15	FAA Part 107 Exam Review***	Summative Assessment (Practice Test – Require passing score)*

*Indicates Key Assignment for Assessment and CiHS

*** FAA Part 107 Exam to be taken at an [FAA Testing Center](#) within one week of course completion.