

**Course Title: Drones**

*Instructor's name, email, and office hours will be provided by the school*

**Course format**

All activities are online

**Course prerequisites**

None

**Course overview**

This course prepares students to take the Federal Aviation Administration's Part A exam, which is a key step to becoming a commercial drone pilot. The field of unmanned aerial vehicles is growing rapidly, as the opportunities to use them for search and rescue, photography, recreation, inspection, and many others continue to multiply. Students will learn the critical facts to prepare for the test's topics, which include regulations, airspace & requirements, weather, loading & performance, and operations. The course will conclude with a look at the most promising careers in the field of drones.

**Course outline by module**

1. Introduction to the Drone Remote Pilot Exam
2. Regulations Part 1
3. Regulations Part 2
4. Airspace & Requirements
5. Weather
6. Loading & Performance
7. Operations
8. Drone Careers

**Course objectives**

Upon completion of this course, students will be able to:

- A. Understand the requirements and locations to take the FAA Part 107 exam as well as safety and insurance considerations when flying a drone.
- B. Discuss the roles of remote pilot and supporting regulations associated with these roles.
- C. Analyze requirements surrounding hazardous materials, time and locations to operate a drone, and laws and rules for drone pilots.
- D. Understand navigation, airspace, and airport marking and sign requirements.
- E. Evaluate the impact of weather to operating a drone.
- F. Discuss the loading and performance requirements for drone piloting.
- G. Identify pre-flight and in-flight operation procedures.
- H. Evaluate the requirements and responsibilities in various drone piloting careers.

### **Materials needed:**

All of the required articles we will read in class will be available online.

#### *Other Office Supplies That May Be Helpful*

- A notebook or folder to store paper copies of texts that you print out
- Pen and pencil
- Highlighter
- Printer and printer paper

#### *Software*

- Basic Office suite of software (a word processor). If you do not have Microsoft Office on your computer, you can either download Open Office (a free suite of Office software) or use Google Docs.
- A web browser. Several options are free online, including Google Chrome, Firefox, or Safari.
- A functional email address that you check every day to maintain in contact with your instructor.

### **Technical skills required:**

- Download and upload files
- Download and install software
- Use email with attachments
- Create, save, and submit files in commonly used word processing program formats
- Copy and Paste
- Work in multiple browser windows and tabs simultaneously

### **Getting help**

It is important to seek help if you have trouble understanding course materials or encounter technical problems. Depending on the situation, questions can be addressed to your instructor or your school's help desk. For Learning Management System-specific questions, find the support email or phone number on your Learning Management System's website. For course-specific questions or issues, please email [support@pointfuleducation.com](mailto:support@pointfuleducation.com)

### **Netiquette**

- Never write anything in the course that you wouldn't be comfortable printing in your local newspaper to be read by all your friends and family.
- Use appropriate emoticons (emotion icons) to help convey meaning. Use "smiley's" or punctuation such as :- ) to convey emotions.
- Avoid sarcasm. People who don't know you may misinterpret its meaning.
- If you get upset by a message, take a little break. Don't respond when you're angry. Take a little while to think about it first!
- Keep posts to the point. Keep messages concise—about one screen, as a rule of thumb.
- Use appropriate language:
  - Avoid coarse, rough, or rude language.

- Observe good grammar and spelling.
- Use appropriate intensifiers to help convey meaning.
  - Avoid sentences typed in all caps.
  - Use asterisks surrounding words to indicate italics used for emphasis (\*at last\*).
  - Use words in brackets, such as (grin), to show a state of mind.
  - Use common acronyms (e.g., LOL for "laugh out loud").
- Always be polite. Remember, you're dealing with real people, not just words on a screen.

(Sources: <https://www.education.com/reference/article/netiquette-rules-behavior-internet/> and Kipp, K., & Patrick, S. (2013). *Teaching on the education frontier: instructional strategies for online and blended classrooms: grades 5-12*. San Francisco, CA: Jossey-Bass.)

### **Plagiarism**

Be careful to avoid plagiarism. All plagiarized assignments will receive a zero and could have further disciplinary actions. When in doubt, cite the source or don't use it. Ask your instructor if you need assistance on citing sources or paraphrasing.

### **Companies mentioned in the Course**

While many companies, schools and projects are mentioned throughout the course, Pointful Education does not promote, endorse, or work with any company. All company names and products mentioned in the course are trademarks of those respective companies.

### **Privacy Policy**

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<https://www.pointfuleducation.com/privacy-policy>

### **Accessibility**

Pointful Education is committed to making our courses accessible to all. We have a national user base and are dedicated to continuously improving accessibility of our products with a focus on both the U.S. accessibility guidelines of [Section 508 of the Rehabilitation Act of 1973](#) (Revised in 2000), and the international [WCAG 2.0 guidelines](#) (Level AA) of the World Wide Web Consortium Web Accessibility Initiative of 2008. In addition, products are evaluated both manually and programmatically for conformance to Section 508 and WCAG 2.0 Level AA guidelines.

OCLC recognizes that creating accessible products is a continuous process that can only be improved by input from our users. Whether you have enjoyed or had difficulty using one of our products, or would like to make general comments, please contact us by emailing us at [support@pointfuleducation.com](mailto:support@pointfuleducation.com).