

Amy Archer



- ▶ **I teach a dual enrollment program between Cartersville High School and Embry Riddle Aeronautical University. The CHS/Embry Riddle program is in it's 6th year.**
- ▶ **Masters in Middle School Education**
- ▶ **Masters in Administration**
- ▶ **Specialist in Instructional Technology**
- ▶ **FAA Basic Ground School Instructor**
- ▶ **FAA Part 107 Remote UAS Pilot**

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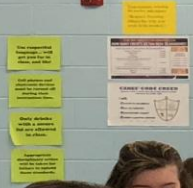
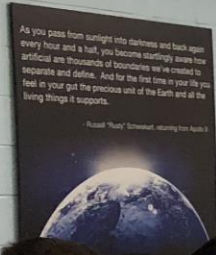
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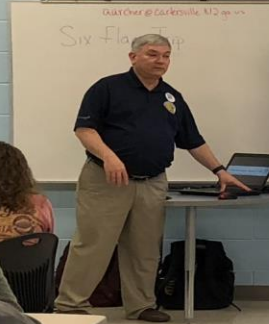
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CARTERSVILLE HIGH SCHOOL
EMBRY-RIDDLE
Aeronautical University



Cartersville High School Aviation Course Layout

- ▶ **Freshman - Introduction to Aerospace Studies**
- ▶ **Sophomore - Flight Operations I/ Aviation Safety ****
- ▶ **Junior - Flight Operations II ****
- ▶ **Senior - Unmanned Aerial Studies/ Flight Physiology ****

(Dual Enrollment classes)**

Part 107 License Requirements

- ▶ **To become a drone pilot you must: (FAA Regulations)**
 - **Be at least 16 years old**
 - **Be able to read, speak, write, and understand English**
 - **Be in a physical and mental condition to safely fly a drone**
 - **Pass the initial aeronautical knowledge exam**

Exam Information

- ▶ **Exam cost... \$150**
- ▶ **Exam sites... several in the Atlanta Area**
I took both of mine at McCollum Airfield (Aero Atlanta)
- ▶ **Exam study courses and apps... several free/cost available**
I used the FlightReady app

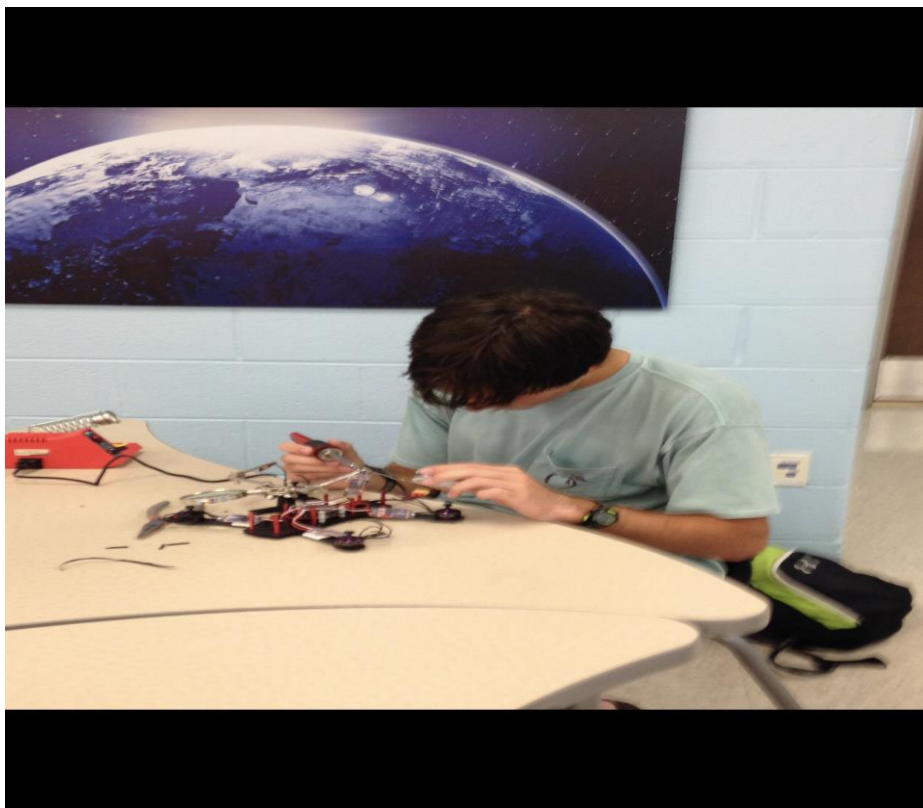
Mavic Pro Quadcopter



Student Drone Video



Aerial Club



Aerial Club Outreach



Student News Footage

- ▶ <https://web.microsoftstream.com/video/2e7f3efa-50ec-4463-a56a-17dea1046a0b>

History of Drones

► <https://youtu.be/QyKH93hKLwQ>

The rules governing sUAS (small Unmanned Aircraft Systems) operated under Part 107 include

- ▶ **The aircraft must be registered if over 0.55 lbs. up to 55 lbs. (can do online)**
- ▶ **Must fly only in uncontrolled airspace**
- ▶ **Must keep the aircraft in sight (visual line-of-sight)**
- ▶ **Must fly under 400 feet**
- ▶ **Must fly during the day**
- ▶ **Must fly at or below 100 mph**
- ▶ **Must yield right of way to manned aircraft**
- ▶ **Must NOT fly over people**
- ▶ **Must NOT operate from a moving vehicle**

Sample Questions

- ▶ According to 14 CFR part 107, an sUAS is a unmanned aircraft system weighing
 - A. 55 kg or less.
 - B. Less than 55 lbs.
 - C. 55 lbs or less.

** CFR –Code of Federal Regulations

Sample Questions

- ▶ A person whose sole task is watching the sUAS to report hazards to the rest of the crew is called
 - A. Visual observer
 - B. Remote-PIC
 - C. Person manipulating the controls

Sample Questions

- ▶ According to 14 CFR part 107, what is required to operate a small UAV within 30 minutes after official sunset? (civil twilight)
 - A. Use of anti-collision lights.
 - B. Must be operated in a rural area.
 - C. Use of a transponder.

Sample Questions

- ▶ What is a characteristic of stable air?
 - A. Stratiform clouds
 - B. Cumulus clouds
 - C. Unlimited visibility

Sample Questions

- ▶ Which technique should a pilot use to scan for traffic?
 - A. Concentrate on relative movement detected in the peripheral vision area.
 - B. Systematically focus on different segments of the sky for short intervals.
 - C. Continuous sweeping of the windshield from right to left.

Contact Information

- ▶ aaarcher@cartersvilleschools.org
- ▶ Archera6@erau.edu
- ▶ Amy Archer (770) 382-3200