

**Intensive Study in Remote Drone Piloting (must be 14+)**  
**Grades 9<sup>th</sup>-11<sup>th</sup>**

Do you have a fascination with all things aviation or do you ever wonder what the view is like from the eye of a soaring eagle? This class will introduce you to commercial small unmanned aircraft system (sUAS) operations otherwise known as “drones”.

Since August 2016, the Federal Aviation Administration (FAA) requires every commercial sUAS operation to employ a remote pilot-in-command with a current FAA Remote Pilot Certificate. In the last 2-3 years the commercial marketplace has seen a surge in utilizing sUAS as a more economical tool used in the sectors of construction, public safety, film, photography, real estate, news, surveying, inspections and delivery to name a few.

In the FAA Remote Pilot: Career class, students will learn about the topics related to passing the FAA Unmanned Aircraft General (UAG) written exam. Topics include aerodynamics, FAA regulations, national airspace, weather, aircraft loading/performance, and operational safety/risk management.

The UAG exam can be taken as young as 14 years of age at any FAA testing center (test not included) and is valid for 2 years. The FAA Remote Pilot Certificate will be issued with a passing UAG test score as soon as you turn 16 years of age. If you can imagine yourself flying a sUAS while making money, then this class is for you!

Hands-on experiences will include:

- Paper airplane models
- Small indoor quadcopter flight maneuver training
- Pre/post sUAS flight planning
- Mission demonstrations involving commercial grade outdoor sUAS
- Analysis of collected sUAS data using photogrammetry to build photo maps, 3D models, topographical maps, and agricultural maps