

## Our Mission

To provide inspired students a rigorous educational program, with a focus on aviation careers, by preparing students for unlimited post secondary academic opportunities, including college and careers in the aviation industry.

## Program Goals

### Pilot Pathway:

Prepare interested students to pass the FAA Private Pilot Knowledge Test.

### UAS Pathway:

Prepare interested students to earn their FAA Part 107 License

All Students: To provide foundational learning necessary for students success in all aviation fields.



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## *Col. Zadok Magruder High School Aviation Program*



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Dr. Leroy C. Evans, Principal  
Michael C. Smith, Aviation Program  
Director

## About the Program

THE COL. ZADOK MAGRUDER Aviation and Aerospace Program is a four year program for students interested in flight and aircraft systems. Students have two pathways from which to choose, both of which align to rigorous math and science standards. The pilot pathway introduces students to safety, aerodynamics, aircraft systems, instrumentation, flight physiology and flight planning. Students will sit for the written portion of the Pilot's Test. The Unmanned Aircraft Systems pathway exposes student to "drones" as they are used in operations such as security, search and rescue, disaster management, drone design and maintenance programming, and systems automation. Upon completion, students can earn a remote pilot certificate.

HIGH SCHOOLS  
POWERED BY AOPA



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## Cohort Sequence

### Freshman Year:

Semester 1: Principles of Aviation and Aerospace

Semester 2: Exploring Aviation and Aerospace

### Sophomore Year:

Semester 1: Introduction to Flight

Semester 2: Aircraft Systems

### Junior Year:

Pilot Pathway:

Semester 1: Private Pilot Fundamentals I

Semester 2: Private Pilot Fundamentals II

UAS Pathway:

Semester 1: UAS Operations I

Semester 2: UAS Operations II

### Senior Year:

Pilot Pathway:

Semester 1: Aviation Safety

Semester 2: Internship/Capstone Project

UAS Pathway:

Semester 1: UAS Design and Application

Semester 2: Internship/Capstone Project



## Program Highlights

- Partnerships within the Aviation Industry
- Curriculum developed by the AOPA specifically designed to provide high quality stem based aviation education in high school
- Field Trips to support in class learning
- Project Based Learning
- Panel Discussions with experts in the industry
- Pass the FAA Private Pilot knowledge test or remote pilot certificate
- Access to AP and Honors coursework

