

AVIATION

AVIATION I (17812)

Grade: 10-12 1 Credit Full Year Online + hands-on component

This is the entry level course to prepare students for employment in the aviation industry. The course covers flight fundamentals, flight operations, aviation weather, performance and navigation. The course also explores careers in air traffic control, flight dispatching and airport management. Units of instruction include: safety of flight, airport layout, aeronautical charts, radar, radio procedures, airplane power plant, aerodynamics, weather patterns and hazards. Emphasis on applied academics in math and science are integrated throughout the curriculum along with decision-making principles as it applies to flight-related factors.



AVIATION II (17813)

Grade: 12 1 Credit Full Year

Online + hands-on component

Prerequisite: Aviation I

This course will cover advanced flight topics as well as expanding topics covered in Aviation I. It will also expand on career exploration based on student aviation interests such as pilot, mechanic, air traffic control, airport management, etc. An Introduction to Unmanned Aircraft Systems (UAS) will also be included. Students will be preparing to pass the Federal Aviation Administration (FAA) private pilot written exam.

NEW! UNMANNED AIRCRAFT SYSTEMS (DRONES) (17184)

Grade: 10-12 1 Credit Full Year Online + hands-on component

Prerequisite: Aviation I

The Unmanned Aircraft Systems course will teach students a basic understanding of recreational and commercial unmanned aircraft operations and prepares them for their Part 107 Remote Pilot Certification. They will identify the responsibility and authority of being a remote Pilot In Command, discuss rules of UAS operation, understand how UAS operate in airspace defined within the National Airspace System. Identify special-use airspace where UAS usage may be prohibited. Understand weather and how it affects flight of UAS. Understand general loading and performance data, airport operations. When students complete this course, they will have a general understanding and knowledge of the operation and uses of UAS as they pertain to the world of Aviation along with industry applications.