

Coventry Public Schools

Course Proposal

Coventry High School Core Values and Belief Statement:

Our community believes in preparing students to become life-long learners by providing a challenging environment that supports the development and use of concepts, knowledge, skills, and ethics that meet the expectations of the global, interdependent society of the 21st century.

The Course Proposal presented here aligns with Coventry High School's Core Values and Beliefs Statement, will align with content standards if approved, is recommended by the Coventry High School Principal, the Director of Teaching and Learning, and Coventry High School's Leadership Team.

Course Title	Aviation
Course Description	This course will introduce students to many concepts in the operation, maintenance and navigation of airplanes. Throughout the semester, students will use a digital flight simulator as well as FAA information sources such as charts, diagrams and aircraft operational handbooks to operate a virtual airplane. Emphasis will be placed on correct operational procedures for preflight, flight and post-flight as well as aerial navigation and decision management. Students will also study the historical impact of aviation as well as key design elements of an aircraft.
Rational for the Addition of the Course	Introduce students to new concepts in Connecticut's rich history of aviation at the same time as reinforcing materials learned from other classes, particularly math.
Highlights of Topics of Study to be Included in the Course	History of aviation, forces of flight, licensing, flight instrumentation, handling of aircraft, VFR and IFR navigation and planning, aircraft design, spacecraft, astronavigation, aeronautical engineering and modeling.
Semester or Year Course	Semester
Open to Grade Levels	9-12
Course Prerequisites	None
Impact of Course on Current Programming	None, but will be offered on alternate years.
Resources Needed for Implementation of Course	Curriculum time, textbooks, some navigation tools and supplies, some software updates
Budgetary Impact of Addition of Course	16 Textbooks: Pilot's Handbook of Aviation Knowledge \$399.20 16 Aviation charts \$239.20 1 Sextant \$181.07 Total Cost: \$819.47
Other Considerations	Software and hardware for the flight simulator is up to date at this time, but replacements for hardware (especially the joysticks) will be needed over time as parts wear out. A typical joystick costs ~\$30. In addition, there are numerous opportunities for field trips throughout Connecticut but it is dependent on transportation availability.