

AEROSPACE CAREERS

222941-222942 Aerospace Physics

Grade(s): 11-12 **Credit:** .5 per semester **Term(s):** 1 & 2

AEO, CTE

Aerospace Physics is a hands-on, applied course where students learn the concepts of Physics through the exploration of Aerospace Engineering and Design. This course has been designed for students who want to learn Physics as well as explore the science of flight. During the year, students will gain a strong understanding of physics principles while being introduced to the theories of flight, the principles of engineering, and airplane design and manufacturing. The course uses problem based learning to enhance learning in theory of flight, airplane design, and airplane construction. Aerospace Physics has been designed for students who like hands-on problem solving, collaborative teamwork and creatively finding solutions. For the course final project, students will collaboratively use physics and engineering principles to design a model aircraft, build it and fly it. This course is an exciting opportunity for students interested in pursuing careers in engineering, airplane mechanic or technician, pilot, or any field within the aviation industry. Part of the course has been modeled in conjunction with Lake Superior College *Aviation Physics and Math* course. Fulfills Chemistry/Physics graduation requirement.

222931- 222932 Introduction to Aviation, Aerospace History, and Aerospace Engineering Design

Grade(s): 10-12 **Credit:** .5 per semester **Term(s):** 1 or 2

CTE, AEO

Students gain a foundational understanding of the science of flight and typically include the history, regulations, and possible career paths within the aviation industry. Aviation courses usually cover physics, the relationships of weight and balance, principles of navigation and flight control, ground and airport operations and services, and Federal Aviation Agency regulations.