

**Course:** Physics 12

**Course Format:** Online

**Credits:** 4

**Description:**

This course is intended for those students planning to study science at the University or College level. Since it is a mathematically demanding course, it offers students a chance to develop their algebraic and problem-solving skills. Although this course is intended for those students that will go on to major in Applied Sciences (Engineering, Computer Science etc.) or Physics, the topics covered will provide a significant advantage for students interested in other areas of science or math. The main topics include torque, equilibrium, relative motion, special relativity, linear and circular motion, fields (gravitational, electric and magnetic), momentum and electromagnetic induction. kinematics, dynamics, energy, heat, waves and electricity.

**Prerequisites:** Physics 11 and Math 11 Pre-Calculus

**Resources:** Online course material, access to a computer and Internet

