

Troy High School Course Profile

Course Title: AP Physics 2

Course Prerequisites: Refer To Registration Presentation

Course Description:

An accelerated course that covers material for the AP Physics 1 test, AP 2 test and IB Physics Tests.

Topics covered:

Mechanics, Fluids, Waves and SHM, Thermodynamics, Light, Electrostatics, Electromagnetism, Atomic Physics, Nuclear Physics, as well as some particle physics and astrophysics

Students entering this course should already have a mastery of the following concepts and possess the following skills:

- Ability to learn material quickly. The class is very fast paced due to the extensive amount of material that must be covered to prepare for both AP Test and IB Test. The class is not appropriate for students that need regular tutoring, they should be in a different level of physics.
- Ability to do math quickly and accurately. There is a major emphasis on solving word problems. It is assumed students have good math skills so they can focus on learning physics.

Workload Expectations for this course (list typical amount of homework, projects, presentations, papers, etc.):

- Reading and problem sets most days (time required depends on ability)
- Engineering projects (one each semester)
- About 30 Labs
- Formal lab report for IB students