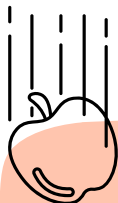


AP Physics 1

An algebra-based, introductory college-level physics course.

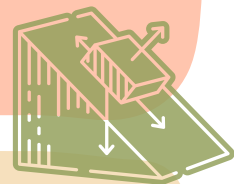


Overview

- **Classical Mechanics:** conceptual and quantitative principles that govern the physical world, approximately equivalent to a first-semester introductory college course in algebra-based physics
- UC a-g approved course
- Aligned to CollegeBoard's **AP Physics 1** course description

Units of Study

1. Kinematics
2. Dynamics
3. Work, Energy, Power
4. Linear Momentum
5. Torque & Rotational Dynamics
6. Energy & Momentum of Rotating Systems
7. Oscillations
8. Fluids *



Who would enjoy this class?

Students who want to ...

understand how the physical world works
apply theory to real-life phenomena

Students who enjoy ...

critical thinking & problem solving
hands-on laboratory investigations

Skills & Science Practices

Mathematics Routines & Problem Solving
Designing Investigations
Data Collection, Analysis, & Graphing
Evidence-Driven Argumentation
Using & Constructing Scientific Models

Workload



Reading assigned per class: approx. 30 min
Practice assigned per class: approx. 45 min

Requirements

☆ Teacher recommendation

- Rising juniors and seniors currently in an IS course:
 - CP A in second semester IS2 or IS3 with concurrent enrollment in AP Precalc or Math 4
- Rising seniors not currently in an IS course: 3.5 in CP science elective with concurrent enrollment in AP Precalc or Math 4

Grading

For '23-'24 school year, subject to change in future years:

Unit Exams	75%
Laboratories & Classwork	15%
Unit Quizzes	5%
Homework	5%



* new for 2024-2025 school year; added to AP Physics 1 course and exam description by CollegeBoard