

AP Physics
Collegiate School of Medicine and Bioscience
2024-2025

Instructor:

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Course description:

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics by developing models of physical phenomena through inquiry-based investigations.

Students build their understanding of physical models as they explore and solve problems in these content areas:

- Kinematics
- Forces and Translational Dynamics
- Work, Energy, and Power
- Linear Momentum
- Torque and Rotational Dynamics
- Energy and Momentum of Rotating Systems
- Oscillations
- Fluids

Materials:

These are the items to be brought to class DAILY

- Binder
- Loose-leaf paper (if you want)
- Folder
- Writing Utensils
- Spiral Notebook
- Calculator (will be provided)

Class Rules of Conduct:

Students will be treated as college bound students in this classroom. Behavior that undermines the learning of another student will NOT be tolerated. This means adult behavior and manners are expected from students in both conduct in this classroom and in study habits.

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AP Exam:

- 40 Multiple Choice Questions (MRQ) – 1hr 20mins – 50% of Score
- 4 Free Response Questions (FRQ) - 1hr 40min – 50% of Score

Grading: [OBJ]

- Participation/Classwork/Homework - 10%
- Labs/Lab Reports – 30%
- Projects/Quizzes - 20%
- Tests - 40%

- Semester Final - 20%

Extra Resources:

There are several online resources that students will be asked to visit throughout the year. This includes AP Classroom, Flipping Physics, PhysicsClassroom.com, APlusPhysics, and more. BEFORE we start each unit, students will be given a reading or video assignment to learn basic vocabulary and concepts. On the first day of a new unit, you will be expected to have completed the reading or viewing of the assigned video and are responsible for the information.

Labs:

Laboratory activities offer students the opportunity to observe many of the concepts covered in this course. There is always a post lab assignment to be completed. Labs will count as Academic Achievement or Academic Practice grades depending on the time and effort required for the lab.

Projects:

We will target doing one project per six-week grading period. Projects are used for extended learning, and to reinforce concepts taught in class. Projects will be completed outside of class. Projects count as a test grade.

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Polices:

- **Homework Policy:** You will be assigned projects that require work over several class periods. You will be provided with sufficient time in-class to complete assignments.
- **If Absent:** If you miss class, you can find your missed homework assignments on Microsoft Teams. It is your responsibility to find out if there is any in-class work you need to make up. You will be able to turn in missing assignments within one week of your absence at no penalty.
- **Late Work:** Unless the student is absent or there are extenuating circumstances, any late work will carry a 20% penalty if submitted after its due date. If you are having issues, please arrange it with me in advance.
- **Reassessment & Make-up Policy:** Retakes will be offered following every test. To retake an assessment, the student must complete test corrections and any additional assigned work to show that they are ready to retake the test. All assessments must be completed in one sitting, so plan enough time for your retake.
- **Academic Dishonesty:** Student's work is expected to be his or her own. Cheating, in any form, will not be tolerated. If a student is caught cheating, he or she will receive a zero on the assignments and parents/guardians will be contacted.