

Syllabus: AP Physics 1

Crook County High School

Teacher: Mr. Lowenbach

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Course Outcomes: This is an advanced placement physics course designed to prepare all students for the AP Physics exam on Tuesday, May 8th 2018 at 12:00 PM. This course is designed to meet the requirements of a full year, college general physics class and the College Board sets the curriculum. AP Physics is a rigorous math-based course, with a strong laboratory component. It is intended for students who have demonstrated a willingness to commit considerable time to studying and completing assignments outside of class and who have successfully completed prior courses in biology, chemistry, algebra, and geometry during high school.

Schedule of Topics: First Semester

- Motion in One Dimension
- Motion in Two Dimensions
- Forces
- Conservation of Energy
- Circular Motion

Schedule of Topics: Second Semester

- Rotational Energy and Momentum
- Simple Harmonic Motion
- Waves and Sound
- Electricity

Text and Materials:

- College Physics (Kight)
- Videos & Multimedia
- Scientific publications, additional textbooks, handouts, supplemental material, etc.

Instruction Method:

- Laboratory activities
- Lecture
- Classroom discussion
- Group study and problem solving
- Reading (textbooks & outside resources)
- Writing (labs, problem solving, etc.)
- Audio Visual Aids
- Student Presentations

Materials:

- 2-3 Spiral or Composition Notebooks: These notebooks will become your very own Interactive Notebook and will contain notes, handouts, assignments, and other class materials.
- Physics Book/Online Access/Mastering Physics (optional)
- Scientific Calculator
- Basic Classroom Materials: Pencil, Pen, Hi-ligher, Ruler, etc.

Attendance and Tardy Policies: This class will follow the school attendance and tardy policies. **You must be present to be successful in Chemistry A & B.** If you are planning on missing class often (hunting, family vacations, illness) this class will be much more difficult.

Classroom Environment: AP PHYSICS IS A LAB BASED CLASS. NO FOOD OR DRINK WILL BE PERMITTED IN THE CLASSROOM (bottled water is the exception). CELL PHONES OR OTHER ELECTRONIC DEVICES ARE NOT PERMITTED DURING DAILY CLASSROOM ACTIVITIES. THERE WILL BE CERTAIN ACTIVITIES IN THIS CLASS WHERE A CELL PHONE **CAMERA** WILL BE REQUIRED FOR VIDEO ANALYSIS OF DATA. THE TEACHER WILL DETERMINE THE ACTIVITIES WHEN A CELL PHONE CAN BE USE.

Grading Procedures: To earn credit this semester, the student must have a minimum class average of 60%. The grade will be calculated based on points earned in four categories:

- Major Exams (60% of grade): Exams will be given, on a minimum, at the end of each unit of study.
- Labs Reports (25% of grade): Graded as purpose, procedure, data, data analysis, error analysis and conclusion
- Daily Grades (15% of grade): Classwork and homework will be assigned. There will be weekly quizzes/assignments that will cover a small section of the unit of study for that particular week.

Grading Scale:

100%-90% = A
80%-89% = B
70%-79% = C
60%-69% = D
59% & below = F

AP Retesting Options: The use of evaluations in this class is part of the process of learning Physics. A test is not the end of the unit, but an opportunity to evaluate what you have mastered and what areas you still need to work on. This is particularly relevant in a course like AP Physics, where the material is cumulative. Students will be given the opportunity to earn up to half the points back for all missed multiple choice and free response questions. Test corrections are mandatory for students who scored below a 65%, and encouraged for those who scored below 85%. To receive credit students must follow the AP Physics test corrections criteria which can be found in the google classroom and will be discussed in detail following the first unit exam.

Make-up Work:

- See the guidelines in the student handbook for information about excused absences. In general, students are allowed one day for each day of excused absence to make-up missed assignments, quizzes or tests.
- It is the student's responsibility to obtain missed notes and assignment upon return from an absence. When turning in make-up work, you must mark it clearly as make-up work or else it will be considered late (no credit). There will be no make-up credit for unexcused absences.

Office Hours & ELO: Mr. Lowenbach has office hours during fourth period, Wednesdays during ELO, every morning starting at 7:30, and most days after school until 3:30. You must see Mr. Lowenbach within two days during one of these times to get any information about the class you missed. It is YOUR responsibility to know what information and assignments you missed and be prepared for the next class.

AP Physics Resources:

- Google Classroom Code: m16uk
- Remind 101 Code for AP Physics: All classes = Text to: 81010 Message: @ccphysics17

Notification of the Right to Object to the Use of Materials

Any resident of the district may raise objection to instructional materials used in the district's educational program despite the fact that the individuals selecting such materials were duly qualified to make the selection and followed the proper procedure and observed the criteria for selecting such material.

The first step in expressing objection is consultation with the classroom teacher or library staff and providing a brief written complaint. The staff member receiving a complaint regarding instructional materials shall try to resolve the issue informally through the discussion of the original assignment or the opportunity for an alternative assignment.

If not satisfied with the initial explanation or an alternative assignment, the person raising the questions will meet with a building administrator who, if unable to resolve the complaint, will provide a Request for Reconsideration form which will be given to the superintendent for action.