



2019-2020 Physics Syllabus

Physics P

1 year (10 Credits)

Course Description

Physics P is a two-semester course covering general physics, which is designed to meet the needs of students pursuing a science major in a university or college. The course encompasses general principles of classical physics (Full outline under Course Outline heading). These major areas will overlap to reemphasize and build a sound foundation in physics. The laboratory portion will correlate with the instructional units of this course. This course meets the A-G Requirements for the University of California and is aligned with Next Generation Science Standards

Contact Information:

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- Remind: Class: Phys1920Code: @2bkbf

Textbook: **Physics: Principles & Problems (Glencoe/McGraw Hill) c. 2005**

Required Materials:

- Spiral Notebook for Interactive Notebook (70-80 pages for semester; 150-200 pages for year).
- Glue Sticks
- Pocket folder OR small binder to hold your work that is due and any graded work.
- Pens (Blue/Black Ink Only), Pencils, highlighter
- Scientific Calculator (NOT a Graphing Calculator)

Course Outline (Topics covered in this course)

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|--|------------------------------|
| • Introductory Lab Skills & Basic Calculations | • States of Matter / Density |
| • Motion & Forces | • Waves |
| • Momentum | • Physics of Sound and Light |
| • Gravitation | • Optics |
| • Energy, Work, and Simple Machines | • Electricity & Magnetism |
| • Thermal Energy | • Nuclear Physics |

Course Objectives: In addition to the topics mentioned above, students will learn academic reading, writing, and speaking skills aligned with Next Generation Science Standards. Students will use inquiry and critical thinking skills to solve problems.



Late Work vs. Make up Work:

Late work: If you were in attendance, were aware of the assignment(s), and simply did not do it or waited until the due date or after to do it, it is LATE! Late work will be issued a 20% per day deduction until the grade reaches zero. It is unfair to those students who do their work on time. With total amount of students, feedback must be given in a timely manner.

Make-up Work: Students with a verifiable excuse will be given the opportunity to make up their work. I will have short forms for you to complete and attach to make-up work when needed. Miss a lab? You can get sample data from me and still do your write-up. Miss a quiz? You can make it up when you return. Miss a test? You can make it up when you return. (See below). I will drop the lowest quiz and lowest test score at the end of the semester.

Unexcused absences/suspensions/referrals: You can still make up the work, but it will not be graded.

Students can get their make-up work by:

1. Checking my website (where you can get information & download material).
2. Accessing the worksheets in class.
 - Students have the length of time that they were absent to make up their work. (e.g. if you were absent one day, you have one day to make up the work and turn it in; two-days absent, two days to submit, etc.).
 - This goes for all excused absences, field trips, illness, family emergencies, and sporting/academic events,
 - When submitting make-up work: list the date(s) you were absent.
 - I update grades in Infinite Campus weekly. Please check on Mondays for the most recent grade. If you want good feedback, it takes time for me to provide it.
 - Tests & Quizzes are announced in advance; If absent, makeups must be done at lunch or after school within two days of your return. Tutoring: Need help? I am available after school by appointment.

Tutoring:

Need help? I am available before school (7:30 a.m.-8:15 a.m.), at lunch daily, (except Wednesday), and after school by appointment.

You can also ask for help via email.

Academic Expectations

1. Be prepared and ON TIME every day: at your desk when the bell rings, writing agendas. Bring materials daily. Bring text when assigned.
2. You will start the semester with 100 points under the "participation portion" of your grade. It is up to you to keep it. If I see you on your phone, using your earbuds, sleeping, etc. during class discussion/lecture, you will lose 5 points each time. This will be documented on IC.
3. No Food or Drinks! - This is a laboratory classroom. Due to the exposure of chemicals, no food or drink allowed. A closable water bottle may be used at your desk.
4. Be respectful of your fellow classmates and the teacher. Respect is earned!
5. Practice Academic Integrity. Plagiarism, Cheating, and Dishonesty will not be tolerated. Zero grades will be issued.
6. Ask for help when needed! Try your best and keep up in class.

Grade breakdown:

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|-------------------------------------|--------------------|
| • Interactive Notebook: 10% | A = 89.5-100% |
| • Participation 10% | B = 79.5-89.4% |
| • Laboratory/Research/Projects: 15% | C = 69.5-79.4% |
| • Quizzes 20% | D = 59.5-69.4% |
| • Chapter Tests 30% | F = 59.4% or below |
| • Comprehensive Final 15% | |

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HOME OF THE COUGARS