

PHYSICS I MECHANICS
SYLLABUS

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Physics Web Site: <http://www.plutonium-239.com>

Course Description

This †**senior-level** course is designed for students who are planning to continue their education after high school. It is assumed that you possess a strong background in mathematics and logical thinking skills. The course is equivalent to a typical college physics course. This course includes a midterm and a †final.

Physics I Mechanics covers the following concepts (†if time permits):

Kinematics in One Dimension	Work and Energy
Kinematics in Two Dimensions; Vectors	Linear Momentum
Dynamics: Newton's Laws of Motion	Rotational Motion; Static Equilibrium
Circular Motion; Gravitation	†Simple Harmonic Motion

Required Daily Materials

The following materials are required for each class. You will **not** be permitted to go to your locker once the bell rings.

1. Three-Ring Binder for *Organizing* Notes, Homework, Labs, and Handouts
2. Assignments
3. Scientific Calculator (The TI-89 is highly recommended)
4. Pen or Pencil
5. Covered Textbook

Course Ethics

- A. Disruptions: When you disrupt another student, you are stealing their time and attention from the instruction. You are also not being respectful of the time, sacrifice, and money invested in other students to attend West Shore Christian Academy.
- B. Studying: You are expected to review your notes everyday. It is a 3-step process:
1. Within the first 24 hours after you are given the notes for the first time, you are expected to identify what you know and what you don't understand. You are to contact me prior to class to identify your areas of need.
 2. As you continue to review these notes within the week, you should continue to "dialogue" with me until the information is clear to you.
 3. Once you have an understanding of the material, you need to continue to frequently review it and other previous notes so it is not forgotten and you can begin to apply that knowledge.
- C. Homework: The work you complete and submit for a grade in this class is to be your own. Copying from other students, online resources, or any other source and submitting it for a grade is cheating.
- D. Quizzes and Tests: The answers that you provide on quizzes and tests are to be solely from the information you have memorized and the skills you have acquired. The use of any non-approved resources (online resources, classmates, previous students, current students, notes, equations, cheat sheets, etc) is cheating.

Classroom Expectations

1. Use good manners.
For example, do not talk when another person is contributing to the lesson, raise your hand and wait quietly until you are given the floor, use appropriate language, etc.
2. Be respectful of others and their belongings.
No touchy-feely

3. Be responsible for yourself.

This includes (1) coming to class on time, (2) being prepared with required daily materials and your homework completed everyday, (3) completing the warm-up assignment in a timely manner, (4) leaving your cellphone in your book bag or locker, (5) keeping food or drink out of the lab, and (6) completing your other class's homework outside of my class.

ANY BEHAVIOR THAT FALLS BELOW THESE EXPECTATIONS WILL NOT BE TOLERATED.

Grading Policy (Subject to Change)

Your grade will be determined by a weighting system. This system is broken down as follows:

<u>Work</u>	<u>Weighting</u>
Warm-Up & Daily Reviews, Quizzes, Summary	20 %
†Homework, Class Work, Review Worksheets	30 %
†Essential Questions	5 %
†Laboratory Activities	15 %
Cumulative *Tests & Projects	30 %

†Late assignments will be reduced 10% for everyday they are late up to a 50% reduction at which time a zero will be issued.

*After graded tests are returned for student review, they will be recollected and held to ensure standards are being met with our current and future students. Students are highly encouraged to meet with their teacher afterwards to receive additional help.

Tutoring Hours

Available upon request, times vary due to the schedule

Absence from Class (Subject to change due to COVID-19)

In the event of your absence from class, it is **your responsibility** to check MS Teams to watch the recorded lesson, Renweb for homework information, and the science web site for additional resources.

A. Class Notes:

You are responsible for the information covered on the day(s) of your absence. Assignments may be available for download at www.plutonium-239.com.

B. Handouts (non-FLO):

I will place all handouts in the MISSED WORK bin in my room. It is your responsibility to pick them up on your day of return.

C. Homework & Class Work:

- (1) If homework or class work was collected on the day you were absent, it is due on the day of your return to school. It is your responsibility to place it in the IN bin in my room.
- (2) If homework or class work was assigned on the day you were absent, it must be completed within two (2) days. It is your responsibility to place it in the IN bin within this time frame or a zero will be assigned.

D. Tests and Major Quizzes (Over 5 points):

Upon your return to school, you have two (2) school days to take the make-up test and/or major quiz. After two school days, a zero will assigned for that test and/or major quiz. See me to make arrangements.

E. Labs/Experiments/Demos:

Upon your return to school, the lab/experiment/demo must be completed within four school days. See me to make arrangements.