

## Physics Syllabus

Physics is a branch of science that involves the study of the physical world: energy, matter, and how they are related. It is a college prep course and meets the UC and CSU requirements for a Lab-Based Physical Science. It requires memorization, competent math skills, abstract thinking, technical reading ability, good lab skills, and complex problem solving skills. To be successful in physics you must take responsibility for individual learning and maintain a good work ethic. The units of study are listed below.

### Semester 1

#### *Mechanics*

(Velocity, Acceleration, Force, Motion in 2-D, Gravity, Momentum)

#### *Work and Energy*

(Energy, Work, Energy Conservation, Thermal Energy)

### Semester 2

#### *Electricity and Magnetism*

(Static Electricity, Electric Field, Current Electricity, Circuits, Magnetic Fields)

#### *Waves, Light and Sound*

(Light, Sound, Refraction, Reflection, Interference)

### Grading Policy

HW Quizzes:	20%
Tests:	35%
Notebook:	15%
In Class Assignments:	10%
Formal Labs:	10%
Final Exam:	10%

#### Grade Scale:

90-100 = A

80-89 = B

70-79 = C

60-69 = D

0-59 = F

(Note: A large portion of your grade comes from assessment. Do not hesitate to ask for help or come in during office hours to make sure you are grasping the material. You will not get by in this class just by completing homework or cheating. You really need to make sure you understand the homework so you can do well on the assessments. You will really need to study effectively for this class. And remember, I am more than happy to help a struggling student! ☺)

### Required Materials

(These materials must be brought EVERY DAY!)

Graphing Spiral Bound Notebook –OR– Regular Spiral Bound Notebook and Graph Paper

Scientific Calculator

Ruler