

Name of School:

Name of Course: **Physics**

Instructor Information

Name:
E-mail address:
School phone number:
Web page address:
Best times to be reached:

Course Description

This two-term course is an investigation of matter and energy within a laboratory centered emphasis on the basic laws and theories related to mechanics, light, sound, and electricity. There is an additional fee for materials.

District Standards and Power Benchmarks

Standard 1: Understands and applies the principles of scientific inquiry

Benchmark A: Formulates and revises scientific explanations and models
Benchmark B: Understands how scientific knowledge changes with new evidence
Benchmark C: Uses technology and mathematics to perform accurate scientific investigations and communications
Benchmark D: Demonstrates safe handling procedures

Standard 2: Understands and applies the principles of physical science

Benchmark A: Analyzes the world in terms of Newtonian mechanics
Benchmark B: Analyzes the world in term of wave theory

Course Information

This is a two-term class with no pre-requisites. 0.5 credits per term will awarded for this class. This class is aimed for college bound students and daily work will be assigned.

Course Outline/Calendar

Term 1:
Unit 1: Scientific Method/Inquiry
Unit 2: Newtonian Mechanics

Term 2:
Unit 3: Wave Theory

Text/Other Required Materials/Resources

Zitzewitz, et al. (1990). *Physics: Principles and Problems*. New York, NY: Merrill.

Instructional Procedures & Support

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Classroom Management Procedures

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Assessment Plan

The students are assessed on a point system. In addition to classwork, labs, tests and quizzes, the students are assessed on: Newtonian Mechanics Benchmark Assessment, Wave Theory Benchmark Assessment, Lenses Lab, and a Spreadsheet Integration Project.

Grading System

90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
0 – 59	F