

ADVANCED PLACEMENT PHYSICS C
Mr. Baker

COURSE DESCRIPTION

AP Physics C will provide the equivalent material covered in a two semester college CALCULUS based physics class. Specific to this course will be classical physics (Newtonian mechanics) in Semester I, and Electricity and Magnetism in Semester II. A laboratory component consisting of at least fourteen formal experiments will supplement the concepts being mastered.

TEXTBOOK

Fundamentals of Physics, 9e, Halliday, Resnick, Walker

Homework assignments and on line textbook are accessed through WileyPlus at no cost to each student.

AP Exam Preparation Material

A variety of study guides and test preparation materials are available to assist in preparing for the exam in May. These materials will be identified early in the course and students will be provided the option of purchasing these resource materials

Course Objective

The objective of this course is to prepare students for the following:

1. The Advanced Placement Exam in Physics C.
2. A **college level**, CALCULUS based curriculum in physics.
3. Promoting critical thinking skills that allow a successful to solution to previously unseen problems.

The AP Exam

The Physics C exam will be administered in early May at FHS. The cost of the exam will be \$87. There are circumstances where the cost of the exam can be reduced for students with financial needs. While the test is not mandatory, it is necessary for those wishing to earn an "A" grade for the 6th marking period. Students who score a 3, 4, 5 on the exam can receive college credit for one or more physics or science classes, depending on the university.

Student Commitment

This is a rigorous class. You will continually apply the concept you are learning to unfamiliar questions. The number of homework problems and reading will not be overwhelming, but the rigor in solving unfamiliar problems and your commitment to obtain a correct solution will be your challenge.

Student Work

Students will be expected to complete every assignment including homework, reading notes, class notes, quizzes, outlines, unit tests and experiments.

Grading

Grades will be compiled using the following weights:

Exams, Quizzes and experiments 90%

Homework 10%

Exams will consist of AP level multiple choice questions and free response questions where all your work is required to be shown.

Quizzes will follow the multiple choice or free response formats and will cover reading assignments, experiments, or current key concept.

Homework will consist of numerical questions as well as conceptual explanations.

Makeup Work

There are no make up opportunities for missed experiments due to the interactive nature and coordination of events between team members.

Teacher Contact

Contact me at FHS on 652 9955 Ext. 2158 or email rbaker@frankenmuth.k12.mi.us

Please review the above information with your parent or guardian and return to the Guidance Office by Wednesday March 8, 2009.

I understand the requirements and desire to participate in AP Physics C

Student Signature

I understand the expectations and commitment required for my student in AP Physics C

I understand the expectations and commitment required for my student in AP Physics C

Parent or guardian Signature