

SCIENCE DEPARTMENT

Physics – Regents

COURSE NO.: 03470

LENGTH: 40 wks.

GRADE LEVEL: 11-12

CREDITS: 1

PREREQUISITES: Above average achievement in Math IR, Math IIR, Math IIIR and Chemistry are desirable, but not absolutely necessary.

COURSE DESCRIPTION & OBJECTIVES:

The course follows the NYS Physics syllabus; that is, it covers the following areas: Mechanics, Heat, Waves, Electricity, and Modern Physics. It is terminated with a Regents test.

As a result of the course, students should understand the empirical, yet tentative nature of scientific knowledge. They should be able to apply appropriate physics concepts in interacting with his or her world. They should be able to use the processes of science to further their own understanding of science; students should develop a richer, more satisfying view of the universe, along with a thirst for more knowledge. Students will learn how to measure, how to present the data in a neat fashion and how to draw a reasonable conclusion.

INSTRUCTIONAL PROCESSES & MATERIALS:

The class meets every day for a lecture/discussion period and every second day for an additional lab period.

The text is: Physics: Principles and Problem by Glencoe

In the lab, the students will work with a large assortment of physics apparatus.

COURSE REQUIREMENTS & EVALUATION CRITERIA:

- The grade will be based on tests, quizzes, lab report, notes and class participation.
- To pass the course, the final average must be 65 or above.
- To receive Regents credit, a student must have completed at least 30 satisfactory lab reports, pass the Regents test and have a final average of 65% or better.
- Students without 30 satisfactory lab reports will not be granted Regents credit.