

JEFFERSON TOWNSHIP HIGH SCHOOL

COURSE OUTLINE AND REQUIREMENTS

COURSE: PHYSICS CP

DEPARTMENT: SCIENCE

DESCRIPTION: Physics deals with the properties, changes, and interactions of matter and energy. This course is designed to strengthen one's understanding of key physics concepts and encourage scientific thinking by engaging students. This course will pursue the fundamental principles of mechanics, magnetism, electricity, light and sound, as well as their applications in everyday life. Student laboratory work will be emphasized throughout the course.

CONTENT: An outline of major topics covered in class is listed below:

Laboratory Safety and Practices	Electrostatics
Mathematics in Physics	Electric Circuits
One-Dimensional Kinematics	Magnetism
Two-Dimensional Kinematics	Periodic Motion and Waves
Forces and Linear Motion	Sound
Work and Energy	Light and Optics
Momentum and Collisions	

RELATED REQUIREMENTS: Each student will be required to:

- Be on time for class
- Bring textbook, notebook, calculator, and pen/pencil each day to class
- Complete homework assignments and hand them in on time
- Participate in classroom discussions
- Do laboratory work and submit lab reports on time
- Complete special projects
- Complete on-line homework and assessments through WebAssign®
- Follow all lab safety rules at all times
- Make up all work missed due to absence promptly upon returning to school

EXTRA HELP AND MAKE-UP: Extra help and make-ups will be available on days to be announced, or by appointment with the instructor.

EVALUATION: Marking period and final averages will be determined by using the grading scale outlined in the current edition of the Student Handbook. Numerical grades will be assigned based on the quality of the student's work on homework assignments, laboratory reports, quizzes, tests, midterm and final examinations, supplementary assignments and the quality and extent of the student's participation in class.

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