

PHY152 Topics in Modern Physics – Chaminade University

Instructor: Dr. Torrance L. Trevorrow
Class Times: MWF 10:00-10:50, Henry Room 37
Dates: Instruction January 12th to May 1, 2009
Office Hours: Before or after class by arrangement.

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Text Book: Physics 3rd Edition, Volume 2 by James S. Walker.

Publisher: Pearson Prentice Hall, ISBN 0-13-173463-6.

Course Description: (from the catalog) Introduction to electricity and magnetism, waves, sound, optics and topics in modern physics.

Prerequisites: Physics 151 and concurrent registration in Physics 152 Lab.

Course Goals: To give the student an increased knowledge and understanding of various topics in contemporary physics and an appreciation for its history, methods, and progress.

Course Objectives: To provide a foundation for understanding the nature of physics, scientific thought reading and analysis of scientific papers, and preparation for Physics 312. At the end of the course the student should be able to understand and solve various problems in: energy, radiation, optics, light, sound, relativity and quantum physics.

Methodology: A significant amount of your learning will come from class participation, activities, a meticulous study of the text, and completing the assigned work. Multiple quizzes (usually at the beginning of each class), discussions, and articles will be used to reinforce learning. A significant amount of student presentations based on research and analysis is required.

Grading: The contributions of course components are indicated as percentages. Changes may be made to the course and grading at the instructor's discretion. The instructor reserves the right to adjust a student's if your quizzes and final do not reflect expected achievement. Quizzes, Presentations and Papers 50%, Final Exam 50%.

A	90% +	Outstanding Scholarship and excellent initiative with course
B	80% +	Superior Quality done in a consistent intellectual manner
C	70% +	Satisfactory showing competent understanding of course
D	60% +	Lowest passing grade, inadequate for prerequisites
F	0-59%	Unsatisfactory understanding and class work

Quizzes and the final exam will be open book and open notes. For any essay type questions original thinking and expression is required. Calculator is normally permitted.

Late Work: Absent or late work is not accepted or graded. No exceptions

Attendance: Active and early participation is vital to your success. Each student is accountable for all the information presented in class and should find an ally in case of absence or late arrival.

Guidelines from the undergraduate catalog indicate that if you miss more than a week of classes you are subject to a grade reduction; missing two weeks of classes will result in notification to the

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Associate Provost and Records office, and possible withdrawal. Should an illness or personal reasons necessitate continued absence the *student* should officially withdraw.

Academic Integrity: All material submitted in fulfillment of course requirements must be done by the registered student. Cut and paste research, copying, substitute work, “wandering eyes”, or sharing exams will result in a grade of zero and possible failure for the course.

Supplies: Additional information to be provided in class. A PDA or Cell Phone or Text Device is not to be used for class work or exams.

Resources: The text and class materials are the primary resources for the course. Often assignments will require effective use of the library and internet research.

Requirements: You are required to **immediately** seek clarification on any material that you do not understand. You are expected to maintain high standards of academic performance and courtesy and to comply with all CUH policies. Any disruptive behavior, inappropriate language or violations will result in expulsion from class (subsequent occurrence possible withdrawal from course).

Quizzes: A quiz will usually be given at the beginning of each class. If you arrive late you will have less time. All work is to be arranged neatly and clearly presented (showing all major steps). “Clean” paper is required. Points for each quiz will be based on time allocated. Quizzes will be returned the following week and then collected during the final exam.

Finals: Specific information will be provided towards the end of the semester and is normally the last day of class. Usually the final is written, open book and notes, calculator permitted.

Notes:

