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CHAMINADE UNIVERSITY OF HONOLULU

PHYSICS 253 UNIVERSITY PHYSICS III

SYLLABUS

Spring Semester, 1999

Instructor: Dr. David Cooke

1. **OBJECTIVE OF COURSE:** The course is the third component of a general, calculus-based introduction to physics. Satisfactorily completion of the course sequence will mean that you have had a good preparation for physics at the level required for majoring in mathematics or the sciences (or other disciplines, including engineering, for example).

You are expected to take the responsibility for reading the text yourselves. Each chapter should be read quickly just prior to the class presentation of the material - in order that you acquaint yourself with the main ideas that are in each chapter, and to get a good idea of the words and principles that are to be discussed in class. This first reading could consist of a ten minute skim. Then, as the material is currently being discussed, read through each section more carefully, making sure that you understand the detail of the work, and follow through the discussions and examples presented by the author.

2. **TEXT:** "PHYSICS FOR SCIENTISTS AND ENGINEERS", by Serway (4th Edition)

3. **CONTENT OF COURSE**

The material covered in the course is drawn from sixteen chapters in the text, those remaining after completion of the first two components of the course sequence (although not all of the sixteen chapters will be covered in depth). This course will cover approximately one chapter per week. The order of the chapter coverage will be:

13, 16, 17, 18, 19, 20, 21, 22, 32, 33, 34, 35, 36, 37, 38, 39.

4. **EVALUATION:**

Grades are based on homework, quizzes, exams, etc, to the extent presented here:

Attendance:	5%
Homework:	5%
Quizzes:	30%
Prelim. Exams	30%
Final Exam	30%
TOTAL	100%

There will normally be one quiz per chapter. Additional reviews will be held as needed by class members.

The preliminary and final exams will be held on the following dates:

1st Prelim. Friday 12th February
2nd Prelim. Wednesday 31st March
Final Exam 10:30 - 12:30 Wednesday, 5th May

It is important to understand the grade definitions which guide the awarding of grades at the end of the semester. Grading criteria as stated in the Chaminade undergraduate catalog are as follows:

- A -- Outstanding scholarship and an unusual degree of intellectual initiative.
- B -- Superior work done in a consistent and intellectual manner.
- C -- Average grade indicating a competent grasp of subject matter.
- D -- Inferior work of the lowest passing grade, is not satisfactory for fulfillment of prerequisite coursework.
- F -- Failed to grasp even the minimum subject matter; no credit given.
- I -- Did not complete a small portion of the work or final examination due to circumstances beyond the student's control. The issuance of an "I" grade is not automatic. Prior to reporting of grades a contract must be made between the student and the instructor for the completion of the course.