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**CHAMINADE UNIVERSITY OF HONOLULU**

**PHYSICS 251 UNIVERSITY PHYSICS I**

**SYLLABUS**

Spring Semester, 2000

Instructor: Dr. David Cooke

1. **OBJECTIVE OF COURSE:** The course is a general, calculus-based introduction to physics. Satisfactorily completion of the course 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 chapters 1 through 16 of the text, although not all chapters will be covered in depth. This course will cover approximately one chapter per week. The order of the chapter coverage will be:

1, 2, 3, 4, 5, 6, 7, 8, 14, 9, 10, 11, 12, 13, 16.

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.

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

- 1st midterm examination - Tuesday, 17th February
- 2nd midterm examination - Thursday, 23rd March
- Final Exam - 8:00 - 10:00 Monday, 8th 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.

#### 5. LABORATORY CLASS - PHY251L:

The concurrent laboratory course is conducted on Wednesday afternoon by Dr. Jack McMillan. Generally the experiments complement the concurrent class work. The laboratory class is regarded as a very important adjunct to the class room work, to help you learn and understand physics. Attendance at the lab class is mandatory, as is a satisfactory performance in the lab work.