University of California, Santa Barbara
Department of Physics
Physics 6C - Spring 1998

Prof. Harry N. Nelson **#5123 Broida Hall** **893-8612**
hnn@charm.physics.ucsb.edu http://hep.ucsb.edu/people/hnn/hnn.html
Lecture: Tuesday and Thursday, 9:30-10:45AM Broida 1610
Office Hours: Monday 11:00-12:00PM, Tu 1:00-2:00PM, also by Appointment, Broida 5123

Prof. Claudio Campagnari **#5119 Broida Hall** **893-7567**
claudio@ucsb2.physics.ucsb.edu http://hep.ucsb.edu/people/claudio/claudio.html
Lecture: Tuesday and Thursday, 2:00-3:15PM Broida 1610
Office Hours: Monday 11:00-12:00PM, Th 1:00-2:00PM also by Appointment, Broida 5119

On the World Wide Web, the course URL is `http://hep.ucsb.edu/p6.html`

Required Textbook: V.C. Coletta, College Physics

Content: In Physics 6C, we cover circuits, magnetism, optics, light, and modern physics. These topics are in Chapters 20-29 of the text. A detailed syllabus appears on the back of this page.

Grading, etc.: Quizzes in section, 25%; one midterm 30%; Final, 45%. Overall grades will depend on a weighted total of the scores on the tests. The date of the **midterm is Tuesday, May 5**. The **final is Friday, June 5 from 7:30-10:30PM in Campbell Hall.**
Should any quizzes or the midterm be missed without written approval **in advance** from your Professor, expect zero credit for those tests; your Professor will require written explanations from Doctors, etc., and a phone number for immediate contact of such parties. The final **must be taken in Campbell Hall at 7:30pm on Friday June 5** in order to obtain a passing grade in the course.
Always bring a photo ID, two pens (no pencils), and a bluebook to the midterm and the final. Do not bring a calculator. Communication between students during a test is cheating.

Problems: Ten problems will be assigned each week (at latest) by the Tuesday lecture. Solutions will be posted on the subsequent Friday in the Physics 6 glass case on the 2^{nd} floor of Broida Hall, in the RBR of the library, and linked to the course URL on the World Wide Web. You can use the Web from 2160 Kerr Hall here at UCSB; also many of the residence halls have Web access, and even many commercial businesses, such as Kinko's, provide Web access. Most (but not all!) quiz, midterm, and final problems will be very similar to (and sometimes, selected from) the assigned problems.

Discussion Sections: Discussion sections are attached to the associated lab course, 6CL. **Even if you are not enrolled in 6CL, you must choose a 6CL discussion section and attend it, in order to take the quizzes.**

Help: Attend your discussion section. The **Physics Study and Lecture Room** at 3302 Broida Hall, also called the **PLC**, has Physics teaching assistants available daily from 8:00 AM to 4:30 PM. You can attend free Instructional Groups if you make advance arrangements with the Campus Learning Assistant Service (CLAS) in Bldg. 477, phone 893-4248, 893-3269.

Perspective: Physics 6C is a challenging course, but with calm, diligent effort, you can master the material. The topics are of great importance for the understanding of many disciplines in science, medicine, and technology.
Problem solving skills are much more important than memorization for mastering physics.
To achieve the greatest understanding with least effort, do the reading listed on the syllabus *before* the lecture. Read in a quiet place where you can concentrate, and have scratch paper, a pencil, and a calculator available. Work the examples, and try the problems *as you read*. After the lecture, review the reading, and finish the problems: get the solutions *after* doing your final work on the problems, and use them to *correct* your work. Reading the solutions prior to completion of your own work will seriously reduce your retention and comprehension of the material.
When you work problems, make a clear drawing *as you read the problem*, and to write down the fundamental principles and equations that you will base your solution upon. Establish a clear strategy for solving the problem, and write a brief description of that strategy. After you think you have solved the problem, re-read the wording of the problem, and double-check that you have provided everything.