

DEPARTMENT OF PHYSICS

Summer 2001

Physics 2C

August 6, 2001

INSTRUCTOR:

Eun-jin Kim
7238 Urey Hall, Ext. 4-7282; ejk@physics.ucsd.edu
Office Hours: Tu & Th 11:00 am - 12:00 pm

COURSE COORDINATOR:

Patti Hey, 118 Urey Hall Addition, Ext. 2-1468

TEACHING ASSISTANT:

Jong Hyun Baek ; jhbaek@physics.ucsd.edu
Office hour: W ~~1:00 - 2:00~~ pm; 2101 Mayer Hall
- 12:30

GRADER:

John P. Rickgauer ; jrickgau@ucsd.edu

CLASS SCHEDULE:

Lectures:	M, Tu, W, Th	9:30 - 10:50 am	CSB 002 (Aug.6-12) WLH 2001(Aug.13-Sept.9)
Discussion Section:	W	1:00 - 1:50 pm	WLH 2005
Problem Session:	Th	7:00 - 8:50 pm	WLH 2005
Quizzes:	F	9:30 - 10:50 am	CBS 002 (Aug.6-12) WLH 2001(Aug.13-Sept.9)
<u>FINAL EXAM:</u>	F, Sept. 7	9:30 - 12:20 pm	WLH 2001

TEXT: Halliday Resnick and Walker, Fundamentals of Physics, 6th edition

RESERVE LIST: A reserve list will be set up for Physics 2C in the Undergraduate Library. Books will include: French, Vibrations and Waves; Crawford, Waves (Berkeley physics course – vol 3); Giancoli, Physics for Scientists and Engineers; Young, University Physics, 8th edition; Kane and Sternheim, Physics; Davidson & Marion, Mathematical Methods for Introductory Physics with Calculus.

THE COURSE: Physics 2C is the third quarter of a four quarter introductory physics sequence. The course is aimed at students majoring in science and engineering (e.g. computer science, chemistry, molecular biology, mathematics, general physics). Physics 2C covers electromagnetic and other types of waves, optics, thermodynamics and fluid mechanics. The course prerequisites are a grade of C or better in Physics 2A and 2B; Math 21C and concurrent enrollment in Math 21D, or equivalent. A course outline is attached; this schedule and the assignments may be adjusted as the quarter proceeds. Lectures will generally follow the text, but will draw on other material where appropriate. The class web page for is <http://www-physics.ucsd.edu/students/courses/summer2001/physics2c/index.html>. Check the web page changes and other announcements.

HELP IS AVAILABLE: The discussion and problem sessions will be held on Wednesday and Thursday as indicated above. At these sessions we will answer questions, work homework problems and/or go over the weekly quizzes. Attendance at the problem and discussion sessions is voluntary, but students are encouraged to use these meetings to help master course material and prepare for the weekly quizzes. Dr. Kim and Mr. Baek will also have office hours as described above.

HOMEWORK ASSIGNMENTS: Problems will be assigned weekly as per the attached schedule. The homework will not be graded, but many if not most problems in the weekly quizzes will resemble

homework problems assigned for the week. Students typically find doing the homework conscientiously is crucial to getting the course grade they'd like. Solutions will be posted on the web page. To fully understand the material, you should work the problems on your own, without help from the solutions provided. Study groups are valuable, but again, be sure you also work out problems yourself. Problems will be worked in detail during the Thursday problem session.

EXAMS: (Please read carefully.)

Quizzes and the final exam will be closed-book. More complicated relevant formulae will be printed on the front cover of the exams at the instructor's discretion. A copy of a sample formula sheets from previous quarters can be found on the web page. At the first quiz, you will be issued a 3-digit code number. This number will be your code number for the quarter and will be used on each exam thereafter in place of your name. All students are required to purchase bluebooks for the exams. Your assigned code number, the course number and quarter must be written on the cover of the bluebooks.

QUIZZES: Quizzes will be given on Fridays in accordance with the attached schedule. Your overall quiz grade will be computed from the best 3 of the 4 quizzes. There will be no make-up for missed quizzes. If you anticipate missing more than one quiz due to unavoidable circumstances, you must discuss this with Dr. Kim before the missed quizzes or as soon as possible afterward in case of illness. After each quiz, recorded grades will be posted by code number on the class web site. Check to be sure your grades are recorded correctly. Exam solutions will be available on the web site. Exams will be returned the following week at the quiz return room, WLH 2126 (M-F 10 – 2pm); your student ID will be required.

FINAL: The final examination will be closed-book and cover all of the material in the course (i.e., chapters 15, 17 - 21 & 34 - 37). It will be given on Friday, Sept. 7, 9:30 AM. You may bring two 8.5"x11" sheets of paper (four sides if you wish) of formulae and notes in addition to the formula sheet on the test. You must bring a fresh blue book to the final exam. Your student ID is required to take the final exam.

GRADING POLICY: The quizzes will count 50% and the final 50% of your course grade.

Appeals of grading of quizzes must be made in writing to the TA. Appeals of grading of the final should be addressed in writing to the instructor. In all cases, do not write directly on your quiz or exam. Instead, attach a sheet of paper with an explanation of why you are appealing the grade (be specific). Re-grades for other than incorrect addition of points by the TA will only be considered for quizzes and exams written in pen (not pencil). Regrades must be requested within one week of the return of the quiz or exam.

ADD/DROP INFO AND DEADLINES:

Last day to add	Friday, August 10, 2001
Drop without 'W' on transcript	Friday, August 24, 2001
Drop without penalty of 'F' ('W' will appear on transcript)	Friday, August 31, 2001

ACADEMIC DISHONESTY

Please read "UCSD Policy on Integrity of Scholarship" on pages 71-74 of the 2000-2001 UCSD General Catalog. These rules will be strictly enforced. Any confirmed case of cheating will result in an "F" grade in Physics 2C and referral to the appropriate dean for disciplinary action. For the purposes of this class, cheating includes submitting another person's work as your own, copying from another student on quizzes or exams or knowingly allowing another student to copy from you, and use of any unauthorized materials during a quiz or exam.

**Physics 2C – Summer 2001
Course Outline and Schedule**

Week	Chapter	Quiz	Homework Assignments
1 August 6	15 Fluids	August 10	Q: 3, 6, 8, 9 E/P: 3, 14, 18, 20, 22, 38, 40, 45, 54, 55
	19 Temperature		Q: 4, 9, 11 E/P: 3, 5, 17, 22, 40, 44, 49, 51, 56, 62
2 August 13	20 Kinetic Theory	August 17	Q: 1, 5, 12 E/P: 4, 8, 14, 24, 26, 27, 38, 48, 53, 60
	21 Entropy and the Second Law		Q: 3, 6, 8 E/P: 5, 7, 13, 14, 27, 30, 33, 37, 41, 43
3 August 20	17 Waves I	August 24	Q: 1, 5, 6, 9 E/P: 3, 7, 13, 19, 25, 27, 33, 34, 40
	18 Waves II		Q: 3, 7, 11, 14 E/P: 2, 5, 8, 15, 28, 37, 45, 48, 53, 55, 59
4 August 27	34 Electromagnetic Waves	August 31	Q: 3, 6, 10, 12 E/P: 1, 3, 6, 12, 16, 24, 39, 49, 55, 60
	35 Images		Q: 1, 2, 5, 8, 10 E/P: 2, 5, 9, 13, 15, 18, 22, 29, 35, 37
5 Sept. 3 (Hol. Sept. 3)	36 Interference	No quiz	Q: 4, 5, 8, 12 E/P: 1, 5, 10, 12, 15, 24, 34, 42, 43, 56
	37 Diffraction		Q: 1, 4, 8, 10, 11 E/P: 2, 6, 10, 16, 22, 32, 40, 50, 55

FINAL: Friday, September 7, 9:30 – 12:20 pm. It will cover the topics discussed in all assigned chapters (i.e., 15, 17-21, & 34-37).