PHYS CS 33 Spring 2007

## Waves, Kinetic Theory, and Relativity

College of Creative Studies University of California, Santa Barbara

This is the third of 6 courses in the CCS Physics sequence and is required for all CCS Physics majors. Topics to be covered include:

- · Sound waves
- Fluid dynamics
- Kinetic theory of matter
- The Maxwell-Boltzmann distribution
- Specific heat
- The special theory of relativity

Prerequisites: PHYS CS 32 or consent of instructor

## **Lecture:**

**Time:** Tues/Thurs 3:30 - 4:50 p.m.

Place: PHELPS 1440

Instructor: Dr. Ilan Ben-Yaacov, ESB Room 2213, ext 5295, ilan@engineering.ucsb.edu

Office Hours: Wednesday 10:00am-12:00pm in ESB 2213

## **Problem Sessions:**

**Time / Place:** Wed 1:00 - 2:50 p.m., BLDG 387 room 103

Wed 3:00 - 4:50 p.m., BLDG 387 room 103

**Instructor:** Matthew Neeley, <u>maffoo@physics.ucsb.edu</u> **Office Hours:** Tues 1:15-3:15pm in BROIDA Room 4217

Teaching Assistant: Daniel Balick, <a href="mailto:dbalick@physics.ucsb.edu">dbalick@physics.ucsb.edu</a>

TA office hours: Mon 5:00-7:00pm in CCS Room 145 (or 148 if room 145 is full)

Grader: Ryan Hazelton, rhazelton@umail.ucsb.edu

**Grader office hours:** Tues 7:00-9:00pm in CCS room 148 (or 145 if room 148 is full)

Required Texts: Physics, 5<sup>th</sup> edition, by Resnick, Halliday, and Krane, 2002, ISBN 0-471-32057-9

An Introduction to Mechanics, by Kleppner and Kolenkow, 1973, ISBN 0-07-035048-5

Class Web Page: http://my.ece.ucsb.edu/PHYSCS33\_S2007