

Mechanics and Waves

College of Creative Studies
University of California, Santa Barbara

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

- Oscillatory motion
- Rotational motion
- Angular momentum
- Newtonian gravity
- Central forces
- Elastic waves
- LaGrangian Mechanics
- Tensor Notation

Prerequisites: PHYS CS 31 or consent of instructor

Lecture:

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

Place: BLDG 387, room 104

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

Office Hours: Tuesday 1:30-3:20pm in ESB 2213

Problem Sessions:

Time / Place: Wed 1:00 - 2:50 p.m., BLDG 387, room 104

Wed 3:00 - 4:50 p.m., BLDG 387, room 104

Instructor: Francesc Roig, roig@physics.ucsb.edu

Office Hours: Mon 2:00-3:50pm in BROIDA Room 6139

Teaching Assistant: Jim Garrison, garrison@physics.ucsb.edu

TA office hours: Tues 6:00-8:00pm in CCS Room 145

Grader: Kathryn McGill, kmcgill@umail.ucsb.edu

Grader office hours: Mon 6:00-8:00pm in CCS room 145

Required Texts: *Physics*, 5th 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/PHYSCS32>