

Newtonian Mechanics

College of Creative Studies
University of California, Santa Barbara

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

- Vectors, kinematics
- Newton's laws of motion
- Work and energy
- Conservative and non-conservative forces
- Momentum, conservation of momentum
- Center of mass motion
- Collisions
- Systems with variable mass

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 2:15-3:15pm and Wednesday 11am – 12pm in ESB 2213

Problem Sessions:

Time / Place: Wed 1:00 - 2:50 p.m., HSSB 4202

Wed 3:00 - 4:50 p.m., CCS Room 148

Instructor: Matthew Neeley, maffoo@physics.ucsb.edu

Office Hours: Mon 3:00-5:00pm in BROIDA Room 4217

Teaching Assistant: Matthew Shepard, mjs981@physics.ucsb.edu

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

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

Grader office hours: Tues 6:00-8:00pm in CCS room 148 (or 145 if room 148 is full)

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/PHYSCS31_F2006