PHYS CS 31 Fall 2009

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 1:30-3:20pm in ESB 2213

Problem Sessions:

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

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

Instructor: Dr. Francesc Roig, <u>roig@physics.ucsb.edu</u> **Office Hours:** Mon 2:00-3:50pm in BROIDA Room 6139

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

TA office hours: TBA in CCS Room 145 or 148

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

Grader office hours: TBA in CCS Room 145 or 148

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