1. Lecture, Staff, Exam and Homework

(a) Lecture
Mon. and Wed. 3:50-5:10 Rm-P113 (Physics), beginning 9/5/07

(b) Staff
Prof. Thomas Kuo, Physics C-137, 631-632-8125, Thomas.Kuo@sunysb.edu
TAs: Mr. Ioannis Iatrakis, Phys. C-121, 631-631-4078
Mr. Zeng Fan, Phys. P122

(c) Office Hours
Kuo: Th. 10-12 am (C-137).
You are welcome to visit me at other times too, just drop in.
Iatrakis: Tue. 5:15-7:15 pm (C-121)
Fan: Mon. and Wed. 5:20-6:20 pm; Frid. 12:50-1:50 pm (P-122)

(d) Exams
Exam-1: Oct. 10, Wed., Rm-P113, 3:50-5:10
Exam-2: Nov. 19, Mon., Rm-P113, 3:50-5:10
Final: Dec. 19, Wed., 5:00-7:30 (room to be announced)

(e) Homeworks
Weekly homework assignments will be announced in lecture.
They will be graded.

2. Course Outline

(a) Textbook
Analytical Mechanics (Fowles and Cassiday, ed-7, Brooks/Cole 2005)

(b) Reference books
Symon, K, Mechanics (Addison-Wesley)
Goldstein, H, Classical Mechanics (Addison-Wesley)

(c) Syllabus
The course is organized approximately into three equal parts:
I. Mainly Chaps 2,3,4 of the text book, including Newton’s law of motion,
one-dimensional motion, velocity dependent forces, harmonic oscillator,
damped harmonic oscillator, non-linear oscillator....
II. Mainly Chape 5,6,7,8 of the text book, including gravitational force,
rotational motion, Kepler’s laws, effective potential, turning points, collisions,
system of many particles, rigid body motion....
III. Mainly Chaps 9 an 10 of the textbook, including Hamilton’s variational
principle, generalized coordinates, Lagrange equations, Lagrange multipliers,
relativistic mechanics (special theory of relativity)....

3. Course Grade
Exam-1 (20%), Exam-2 (20%), Final (40%), Homeworks (20%).