

CLASSICAL MECHANICS

Ph 425

SYLLABUS FOR SPRING 2002

3/28/02

Approx. half-life: 5 weeks

Instructor: Donald G. Howard 725-4224 email: HOWARDD@PSU4.PDX.EDU
Office: 402 SB2 (also try lab in 417 SB2)
Regular hours: M & W 10:30 – 11:30
or by appointment (i.e., try anytime, especially afternoons).

You are welcomed to stop by my office and chat anytime about anything, pertaining to the course or to Physics or to whatever you are currently reading. If you have trouble finding me, leave a message on my answering service or email and we will negotiate a satisfactory time.

Class Hours 11:30 – 12:20 M, W & F 104 SB2

Reading Materials:

Analytical Mechanics Fowles and Cassiday Chapters 7 through 11

Grading:

Weekly homework 20%
Midterms (two) 20% each
Final exam 40%

Schedule:

	<i>Subject</i>	<i>Reading</i>	<i>Assignments</i>
Week 1	Systems of particles: energy, momentum, angular momentum	Chapt. 7	
Week 2	Collisions, momentum conservation		PS#1 due
Week 3	Rigid bodies; moment of inertia	Chapt. 8	PS#2 due
Week 4	Dynamical problems		PS#3 due
Week 5	Problem Review	<i>MT#1</i>	PS#4 due
Week 6	Generalized rotations, principle axes	Chapt. 9	PS#5 due
Week 7	Precession and nutation		PS#6 due
Week 8	Lagrangian formalism	Chapt 10	PS#7 due
Week 9	Problem solving	<i>MT#2</i>	
Week 10	Oscillating systems	Chapt 11	PS#8 due
Thurs., June 13	12:30 – 2.20	<i>FINAL</i>	