

# SYLLABUS

## Physics 1112, Spring 2010

1/25 - 1/29	Introduction, Kinematics, vectors, projectile motion. YF Chapter 1, Chapter 2, 3.1-3.3
2/1 - 2/5	Circular motion, Relative motion, Newton's Laws, Gravity YF 3.4, 3.5, Chapter 4. <b>LAB 2</b>
2/8 - 2/12	Springs, Friction, Drag Forces, Non-inertial frames YF Chapter 5 , <b>LAB 3</b>
2/15 - 2/19	Energy and Work Chapter 6 , <b>LAB 4</b>
2/22 - 2/26	Energy and Work continued. Power. Chapter 7
3/1-3/5	Center of mass, momentum, collisions. Chapter 8, <b>Prelim 1, Thurs. March 4, 7:30</b>
3/8 - 3/12	Collisions in 2 dimensions, Rocket equation. Chapter 8 cont. <b>Lab 6</b>
3/15 - 3/19	Rotational Kinematics, moments of inertia, torque. Chapter 9, <b>LAB 7</b>
3/29 - 4/2	Angular momentum, gyroscopes. Chapter 10
4/5 - 4/9	Static equilibrium, gravity. 11.1-11.4, Chapter 12, <b>Prelim 2, Thurs. April 8,7:30</b>
4/12 - 4/16	Gravitational orbits, extended objects Chapter 12 cont. <b>Lab 8</b>
4/19- 4/23	Oscillations Chapter 13
4/26 - 4/30	Fluid Mechanics Chapter 14
5/3 - 5/7	TBA

**Final Exam: Friday May 14, 9:00-11:30 AM**