

**General Physics 1 (PHYS-111-03, Fall 2004)**

MWF 9:00-9:50

238 Haberlin Hall

Professor Tom Narita

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4 Exams @ 20% each, homework 20%

<u>Week</u>	<u>Dates</u>	<u>Chapter</u>	<u>Topics</u>
1	9/1 W	1	Introduction, length, mass, time
	9/3 F	1	Vectors
2	9/6 M	2	Velocity and acceleration
	9/8 W	2	Constant acceleration
	9/10 F	3	Projectile motion
3	9/13 M	3	Circular motion
	9/15 W	4	Force and mass
	9/17 F	4	Newton's Second Law
4	9/20 M	4	Applications of Newton's laws
	9/22 W	5	Friction
	9/24 F		EXAM 1
5	9/27 M	5	Friction and circular motion
	9/29 W	5	Non-uniform circular motion and gravity
	10/1 F	6	Work done by forces
6	10/4 M	6	Kinetic theory
	10/6 W	6	Power and energy
	10/8 F	7	Potential energy
7	10/11 M		COLUMBUS DAY
	10/13 W	7	Conservation of forces and potential energy
	10/15 F	7	Gravitational and electrical potential energy
8	10/18 M		EXAM 2
	10/20 W	8	Conservation of momentum
	10/22 F	8	Impulse and momentum
9	10/25 M	8	2-D collision and center of mass
	10/27 W	10	Angular speed and acceleration
	10/29 F	10	Rotational kinematics
10	11/1 M	10	Rigid body in equilibrium
	11/3 W	10	Angular momentum
	11/5 F	12	Particle on a spring
11	11/8 M	12	Simple harmonic motion
	11/10 W	12	Conservation of energy in harmonic motion
	11/12 F		EXAM 3
12	11/15 M	13	Mechanical waves
	11/17 W	13	Traveling waves
	11/19 F	13	Sound waves
13	11/22 M	14	Superposition and interference of waves
	11/24 W		THANKSGIVING
	11/26 F		THANKSGIVING
14	11/29 M	14	Standing waves
	12/1 W	15	Pressure in fluids
	12/3 F	15	Buoyant forces
15	12/6 M	15	Bernoulli's Principle
	12/15 W		EXAM 4