

Week	Date	Topic	Reading
1	M	30-Aug	Course Intro
	W	1-Sep	Units, Dimensional Analysis, Sig Figs
	F	3-Sep	1D motion, average speed, velocity, acceleration
2	M	6-Sep	Constant Acceleration, freefall
	W	8-Sep	Vectors
	F	10-Sep	Velocity, Acceleration, Projectile Motion
3	M	13-Sep	Circular Motion, Relative Motion
	W	15-Sep	Forces: Newton's 1st and 2nd Laws
	F	17-Sep	Combinations of forces
4	M	20-Sep	Newton's 3rd Law, Motion with a constant force
	W	22-Sep	Applications: Friction, Springs
	F	24-Sep	Uniform circular Motion, Fundamental Forces
5	M	27-Sep	<b>EXAM 1 Chapters 1 - 5</b>
	W	29-Sep	Work: Constant and variable forces
	F	1-Oct	Kinetic and Potential Energy
6	M	4-Oct	Conservative Forces, and potential energy
	W	6-Oct	Other forms of energy and power
	F	8-Oct	Law of Gravitation, Circular Orbits
7	M	11-Oct	Kepler's Laws, energy
	W	13-Oct	Momentum, Center of mass of a system
	F	15-Oct	Motion of the center of mass, energy of the system
8	M	18-Oct	<b>Fall Break</b>
	W	20-Oct	Collisions: Impulse, 1D elastic collisions
	F	22-Oct	Inelastic collisions and 2D
9	M	25-Oct	Rotational Motion, Constant Angular Acceleration
	W	27-Oct	Kinetic energy of rotation, moment of inertia
	F	29-Oct	<b>EXAM 2 Chapters 6 - 11</b>
10	M	1-Nov	Torque, Newton's 2nd law for rotation
	W	3-Nov	Angular Momentum and Conservation
	F	5-Nov	Torque and angular momentum as vectors
11	M	8-Nov	Static Equilibrium
	W	10-Nov	Levers, Pulleys, Elasticity
	F	12-Nov	Oscillations: Simple Harmonic Motion
12	M	15-Nov	Kinetic and Potential Energy in SHO, Pendulum
	W	17-Nov	Damped and Forced Oscillations
	F	19-Nov	Fluids: Density, flow, Pressure in static fluids
13	M	22-Nov	Archimedes Principle, Fluid dynamics, Bernoulli's equation
	W	24-Nov	<b>Thanksgiving</b>
	F	26-Nov	<b>Thanksgiving</b>
14	M	29-Nov	Thermo: Ideal Gases
	W	1-Dec	Thermal Energy, Degrees of Freedom
	F	3-Dec	Heat transfer, thermal expansion
15	M	6-Dec	Specific heat
	W	8-Dec	1st Law of Thermodynamics, Heat Engines
	F	10-Dec	2nd Law of Thermodynamics, Entropy

The comprehensive final exam is on Tuesday, December 14, at 7 pm.