

Physics 211

Elementary Physics

Fall 2012

Course schedule

This schedule is a living document; it will be updated periodically throughout the course. The final exam date will not change, since it is scheduled by the university.

Date	Event
Aug 28	Intro, orders of magnitude
Aug 30	Measurement, significant figures
Sep 4	1D motion, problem solving
Sep 6	Constant acceleration motion, <i>HW #1 due</i>
Sep 11	More constant accel., intro to 2D motion & projectiles, vector addition
Sep 13	Projectiles, vector components, <i>HW #2 due</i>
Sep 18	Projectiles, relative velocity
Sep 20	Force, laws of motion <i>HW #3 due</i>
Sep 25	Exam 1
Sep 27	Laws of motion, <i>HW #4 due</i>
Oct 2	Free body diagrams
Oct 4	Free body diagrams, friction, <i>HW #5 due</i>
Oct 9	Free body diagram practice & wrap-up
Oct 11	Work, energy, kinetic & potential energy <i>HW #6 due</i>
Oct 16	Kinetic & potential energy, conservation of energy
Oct 18	Conservation of energy, power, <i>HW #7 due</i>
Oct 23	Exam 2
Oct 25	Linear momentum, conservation of linear momentum
Oct 30	Conservation of linear momentum, collisions
Nov 1	Center of mass, rockets, <i>HW #8 due</i>
Nov 6	Circular motion, gravitation
Nov 8	Gravitation, Kepler's laws
Nov 13	Special feature: temperature, heat, entropy <i>HW #9 due</i>

Date	Event
Nov 15	Exam 3
Nov 20	<i>Fall Recess — No class</i>
Nov 22	<i>Fall Recess — No class</i>
Nov 27	Rigid body rotation, torque, equilibrium
Nov 29	Rotational dynamics, rotational energy
Dec 4	Angular momentum, rigid body wrap-up <i>HW #10 due</i>
Dec 6	Harmonic motion
Dec 11	Harmonic motion & waves
Dec 13	Gravitational waves, harmonic motion, black holes, <i>HW #11 due</i>
Dec 20	Final exam 9:30AM–11:20AM