

Phys 111 Tentative Schedule

Fall 2019

Week	Tuesday	Thursday	Reading C&J
1 – 08/26	Syllabus Measurements & Uncertainty Math Review	Introduction to Motion Kinematics Directional Quantities	1.1 – 1.4 1.5, 2.1 – 2.3
2 – 09/02	Applications of Acceleration Graphical Analysis	Vectors Kinematics in 2 Dimensions	2.4 – 2.8 1.6 – 1.8, 3.1 – 3.2
3 – 09/09	Projectile Motion Relative Velocity Concept of Force & Mass	Laws of Motion Types of Forces	3.3 – 3.5 4.1 – 4.6
4 – 09/16	Examples	Uniform Circular Motion Centripetal Force	4.7 – 4.12 5.1 – 5.7
5 – 09/23	Midterm 1	Midterm Overview	Ch. 1 – Ch. 5
6 – 9/30	Work Types of Energy	Power Examples	6.1 – 6.5 6.6 – 6.9
7 – 10/07	Linear Momentum Center of Mass	Collisions Energy & Momentum	7.1 – 7.3 7.4 – 7.6
8 – 10/14	Rotational Motion	Rotational Acceleration Rolling Motion	8.1 – 8.3 8.4 – 8.8
9 – 10/21	Torque on Rigid Objects Center of Gravity	Rotational Work & Energy Angular Momentum	9.1 – 9.4 9.5 – 9.7
10 – 10/28	Midterm 2	Midterm Overview	Ch. 6 – 9
11 – 11/4	Simple Harmonic Motion Ideal Springs & Pendulum	Damped Harmonic Motion Driven Harmonic Motion	10.1 – 10.4 10.5 – 10.6

12 – 11/11	Pressure & Density Static Fluids	Fluids in Motion Continuity Equation Bernoulli's Equation	11.1 – 11.6 11.7 – 11.11
13 – 11/18	Temperature & Heat Thermal Expansion	Internal Energy Specific Heat Capacity Phase Changes	12.1 – 12.6 12.7 – 12.9
NA – 11/25	No Class Heat Transfer Types	Thanksgiving	13.1 – 13.4
14 – 12/02	Waves & Properties Periodic Waves Sound	Doppler Effect Applications	16.1 – 16.8 16.7 – 16.11
15 – 12/09	Linear Superposition Interference Diffraction	Beats Transverse Standing Waves Longitudinal Standing Waves	17.1 – 17.3 17.4 – 1.7
16 – 12/16	Finals	Finals	