

Syllabus	Phys 151	Spring 2025	
Jan.	27	Introduction	Ch. 1:1-6
	29	Review of Kinematics	Ch. 2:1-6
	31	Review of Vectors; HW #1	Ch. 1:7-9
Feb.	3	Motion in Two and Three Dimensions	Ch. 3:1-5
	5	Newton's Laws; HW #2	Ch. 4, 5:1-2
	7	Friction and Drag Forces;	Ch. 5:3
	10	Uniform Circular Motion	Ch. 5:4-5
	12	Work; HW #3	Ch. 6:1-2
	14	Energy and Power	Ch. 6:3-4
	17	Potential Energy	Ch. 7:1-3
	19	Conservation of Energy	Ch. 7:4-5
	21	HW #4; <i>Review</i>	
	24	Hour Test I	
26	Momentum; Collisions	Ch. 8:1-3	
28	Elastic and Inelastic Collisions	Ch. 8:4	
Mar.	3	Rotational Motion	Ch. 9:1-3
	5	Rotational Inertia and Energy; HW #5	Ch. 9:4-6
	7	Torque; Rolling Motion	Ch. 10:1-3
	10	Angular Momentum	Ch. 10:4-7
	12	Gravitational Force and Energy; HW #6	Ch. 13:1-3
	14	Orbits;	Ch. 13:4-6
	17-21	<i>Spring Break</i>	
	24	Applications	Ch. 13:7-8
	26	<i>Review</i> ; HW #7	
	28	Hour Test II	
Apr.	31	Simple Harmonic Motion; Energy	Ch. 14:1-3
	2	Applications; Pendula	Ch. 14:4-6
	4	Damped and Driven Oscillations	Ch. 14:7-8
	7	Wave Properties	Ch. 15:1-5
	9	Interference; Standing Waves; HW #8	Ch. 15:6-8
	11	Applications	Ch. 15
	14	Sound Waves	Ch. 16:1-3
	16	Interference; Resonance; HW #9	Ch. 16:4-6
	18	Beats; The Doppler Effect	Ch. 16:7-9
	21	<i>Review</i>	
23	Hour Test III		
25	Temperature and Heat; Specific Heat	Ch. 17:1-7	
28	Kinetic Theory; Ideal Gas	Ch. 18:1-6	
30	Work; First Law of Thermodynamics; HW #10	Ch. 19:1-4	
May	2	Ideal Gas Processes	Ch. 19:5-8
	5	The Second Law of Thermodynamics	Ch. 20:1-5
	7	Entropy	Ch. 20:6-8
	9	Final Review; HW #11	
<i>Final Exam (cumulative)</i>			

February 12, 2025