

Fundamentals of Physics I Syllabus*

Week	Topics	Chapters	Lab	Notes
1 (26-30 Aug.)	Models, Vectors, & Interactions	C1, C2, C3	Excel Workshop & Measurement Uncertainty	
2 (2-6 Sept.)	Systems of Particles & Conservation of Momentum	C4, C5	1D Motion	No Class Mon. Sept. 2
3 (9-13 Sept.)	More Conservation Laws: Angular Momentum & Energy	C6, C8, C9	No Lab	Campus Day Thurs. Sept. 12
4 (16-20 Sept.)	Work & Rotational Energy	C10, C11	Force Measurement	Exam I Fri. Sept. 20
5 (23-27 Sept.)	Thermal and Internal Energy & More on Angular Momentum	C12, C13, C7	Cons. of Momentum (Lab Paper due Oct. 7)	
6 (30 Oct.-4 Sept.)	Newtonian Mechanics: Vector Calculus & Forces	N1, N2	Open Lab	Fall Wknd: No Class Fri. Oct. 4
7 (7-11 Oct.)	Linear Motion & Coupled Systems	N3, N5, N6	Cons. of Energy	Lab Paper due Mon Oct. 7
[Ohio Section of the American Physical Society Fall Meeting: 11-12 Oct.]				
8 (14-18 Oct.)	Circular Motion, Non-inertial Frames, & Projectiles	N7, N8, N9	Circular Motion	
9 (21-25 Oct.)	Oscillatory & Orbital Motion	N10, N11	Oscillatory Motion	Exam II Fri. Oct. 25
10 (28 Oct.-1 Nov.)	Temperature, Entropy, & the Second Law	T1, T2, T3	Temperature of Liquid Nitrogen and Absolute Zero	
11 (4-8 Nov.)	Boltzmann Factor, Ideal Gas Model, & Gas Processes	T4, T5, T7	Heat of Vaporization of Liquid Nitrogen	
12 (11-15 Nov.)	Entropy Calculations, Heat Engines, & Climate Change	T8, T9, T10	No Lab	
Comprehensive Final Exam: Mon. Nov. 18, noon-2:00 PM				

*Note: This schedule is subject to change through the term, although the exam dates are firm.