

# Physics 231: Spring 2014: Course Planner

Date	Topic	Text	Assignments
M: 1-13	Dimensional analysis	Ch. 1	
W: 1-14	Trig, vectors, dot-products	Ch. 1	
F: 1-17	Vector addition, calculus	-----	
F: 1-17	ASA 1-7 p.1&2.	Exp # 1	Lab 1: Experimental Uncertainty and Data Analysis.
M: 1-20	Vector addition, calculus	Ch. 1	
W: 1-22	One-dimensional motion	Ch. 2	
F: 1-24	2D and 3D motion	Ch. 3	Mission 1 due
F: 1-24	ASA 1-9 p.35&36.	Exp # 5	The Addition and Resolution of Vectors: The Force Table.
M: 1-27	2D and 3D motion	Ch. 3	
W: 1-29	Relative and circular motion	Ch. 3	
F: 1-31	Relative and circular motion		Mission 2 due
F: 1-31	ASA question 1-4 p46-47.	Exp # 4	Uniformly Accelerated Motion.
M: 2-3	Newton's Laws	Ch. 4	
W: 2-5	Time for questions		
F: 2-7	Free body diagrams	Ch. 5	
F: 2-7	Test 1 (during Lab period)		comprehensive and timed.
M: 2-10	Applying Newton's Laws	Ch. 5	
W: 2-12	Applying Newton's Laws	Ch. 5	
F: 2-14	The line-integral and Work	Ch. 6	
F: 2-14	ASA 1-5 p.55&56.	Exp #6	Newton's Second Law: The Atwood Machine.
M: 2-17	Conservative forces	Ch. 6-7	
W: 2-19	Conservation of energy	Ch. 6-7	
F: 2-21	Conservation of energy	Ch. 6-7	Mission 3 due
F: 2-21	ASA 1-6 p.97&98.	Exp # 11	Work and Energy.
M: 2-24	Energy analysis	Ch. 7	
W: 2-26	Energy analysis	Ch. 7	
F: 2-28	Energy analysis	Ch. 7	Mission 4 due
F: 2-28	(no Lab meeting)		
M: 3-3	Further examples		
W: 3-5	Time for questions		
F: 3-7	Center of mass	Ch. 8	
F: 3-7	Test 2 (during Lab period)		comprehensive and timed.
	Spring Break: (3-10 to 14)		no classes 3-11,3-13,3-15

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Date	Topic	Text	Assignments
M: 3-17	Momentum, impulse	Ch. 8	
W: 3-19	Collisions	Ch. 8	
F: 3-21	Collisions	Ch. 8	
F: 3-21	ASA 1-6 p. 81&82.	Exp # 8	Projectile Motion: The Ballistic Pendulum.
M: 3-24	Rotational motion	Ch. 9	
W: 3-26	Rotational energy	Ch. 9	
F: 3-28	Rotational dynamics	Ch. 10	Mission 5 due
F: 3-28	ASA 1-6 p.109&110.		Torques, Equilibrium, and Center of Gravity.
M: 3-31	Rotational collisions	Ch. 10	
W: 4-2	Gravity	Ch. 13	
F: 4-4	Gravity	Ch. 13	
F: 4-4	ASA 1-8 p.69&70.	Exp # 3	The Scientific Method: The Simple Pendulum.
M: 4-7	Gravity	Ch. 13	
W: 4-9	Assessment Day (no class)		
F: 4-11	Gravity	Ch. 13	Mission 6 due
F: 4-11	ASA 1-5 p.141&142.	Exp # 39	Air Column Resonance: The Speed of Sound in Air.
M: 4-14	Further examples		
W: 4-16	Time for questions		
F: 4-18	Concerning reality.		
F: 4-18	Test 3		comprehensive and timed.
M: 4-21	Easter Monday		
W: 4-23	Concerning reality.		
F: 4-25	Concerning reality.		
F: 4-25	ASA 1-5 p121&122 (TI part only)	Exp # 14	Simple Harmonic Motion.
M: 4-28	Concerning reality.		