

**Tentative Schedule, Physics 113, Fetrow, Fall 2007, modified 11/10/2007**

Date	Home work, Reading quiz	Class Topic	Text Chapt	Video(s)	Class	Lab
Aug 29		Introduction and class overview				
Aug 31	RQ-1	Estimation and order of magnitude	Chap 1	Units of Measure; Dimensional Analysis; Significant Figures	Estimation and order-of-magnitude problem	
Aug 31	<b>HW-1</b>	Chapter 1; Due 9pm				
Sep 3	RQ-2	Measurement, Motion in 1D	Chap 2	1D Kinematics	Human motion	Lab 1 Measurement
Sep 5	RQ-3	Motion in 1D	Chap 2	1D Kinematics	Cart motion	
Sep 7	RQ-4	Motion in 1D	Chap 2	1D Kinematics	Rocket launch models	
Sep 7	<b>HW-2</b>	Chapter 2; Due 9pm				
Sep 10	RQ-5	Vectors	Chap 3	Rectangular and Polar Coordinates; Rectangular and Polar Coordinate Conversion; Scalars and Vectors; Vector Properties and Vector Algebra	Rocket launch (cont) Exercises with vectors	Lab 2 Uniform acceleration
Sep 12	RQ-6	Vectors	Chap 3	Rectangular and Polar Coordinates; Rectangular and Polar Coordinate Conversion; Scalars and Vectors; Vector Properties and Vector Algebra; Vector Components and Unit Vectors; Products of Vectors	Exercises with vectors	
Sep 14		Exam 1: Chapters 1, 2, 3				
Sep 14	<b>HW-3</b>	Chapter 3; Due 9pm				
Sep 17	RQ-7	Motion in 2D	Chap 4	2D Kinematics; projectile motion	Galileo's projectile	Lab 3 Measurement of mass
Sep 19	RQ-8	Motion in 2D	Chap 4	2D Kinematics; Projectile motion	Galileo's projectile; problem solving	
Sep 21	RQ-9	Motion in 2D	Chap 4	Uniform Circular Motion; 2D Kinematics; Projectile Motion	Tennis ball on a string	
Sep 21	<b>HW-4</b>	Chapter 4; Due 9pm				
Sep 24	RQ-10	Laws of Motion	Chap 5	Newton's First Law; Newton's Second Law; Newton's Third Law; Free Body Diagrams	Mass, weight, force vectors, in-class problem	Lab 4 Equilibrium and first law
Sep 26	RQ-11	Laws of Motion	Chap 5	Newton's First Law; Newton's	Carts, motion,	

## Tentative Schedule, PHY 113, Section A, Fall 2007

				Second Law; Newton's Third Law; Friction; Free Body Diagrams	and force		
Sep 28	RQ-12	Laws of Motion	Chap 5	Newton's First Law; Newton's Second Law; Newton's Third Law; Friction; Free Body Diagrams	Carts, motion, and force		
Sep 28	<b>HW-5</b>	Chapter 5; Due 9pm					
Oct 1	RQ-13	Laws of Motion	Chap 5	Newton's First Law; Newton's Second Law; Newton's Third Law; Friction; Free Body Diagrams	Carts and friction	Lab 5 Friction, work	
Oct 3	RQ-13a	Circular Motion	Chap 6	Uniform Circular Motion	Forces in circular motion		
Oct 5	RQ-14	Circular Motion	Chap 6	Uniform Circular Motion	Forces in circular motion		
Oct 8	RQ-15	Energy and Energy Transfer	Chap 7	Products of vectors		Lab 6 Conservation of momentum	
Oct 10		<b>NO CLASS!</b>					MSF-D SS
Oct 10	<b>HW-6</b>	Chapters 5 and 6 ( <i>slightly expanded</i> ); Due 9pm					
Oct 12		Exam 2: Chapters 4, 5, 6					
Oct 15	RQ-16	Energy and Energy Transfer	Chap 7	Products of Vectors			
Oct 17	RQ-17	Potential Energy	Chap 8	Conservation of Energy			
Oct 19		Fall Break—no class; But homework is due, as usual.					
Oct 19	<b>HW-7</b>	Chapt 7, 8; Get it done early, so you don't have to work on it during break! Due 9pm					
Oct 22	No RQ	Linear momentum and collisions	Chap 8	Conservation of Energy		Lab 8 Equilibrium-second law	
Oct 24	RQ-18	Potential energy	Chap 8	Conservation of Energy	Bowling ball pendulum		
Oct 26	RQ-19	Momentum and collisions	Chap 9	Conservation of Momentum; Conservation of Momentum Examples	Momentum of carts		
Oct 26	<b>HW-8</b>	Chapt 8, 9; Due 9pm					
Oct 29	RQ-20	Momentum and collisions	Chap 10	Conservation of Momentum; Conservation of Momentum Examples		Lab 9 Simple harmonic motion	
Oct 31	RQ-21	Rotation of a rigid object	Chap 10	Rotation of a rigid object (A, B, and C), Torque, Rolling motion			
Nov 2	RQ-22	Rotation of a rigid object	Chap 10	Rotation of a rigid object (A, B, and C), Torque, Rolling motion			
Nov 2	<b>HW-9</b>	Chapt 9, 10, 11; Due 9pm					

Tentative Schedule, PHY 113, Section A, Fall 2007

Nov 5		Exam 3: Chapters 7, 8, 9, 10				Lab 10 Velocity and wave prop
Nov 7	RQ-23	Angular momentum	Chap 11	Torque; Rolling Motion, Angular Momentum; Products of Vectors		
Nov 9	RQ-24	Static equilibrium and elasticity	Chap 12			
Nov 9	<b>HW-10</b>	Chapter 11, 12; Due 9pm				
Nov 12	RQ-25	Static equilibrium and elasticity	Chap 12			Lab 11 Archimedes principle
Nov 14	RQ-26	Universal Gravitation	Chap 13	Kepler's Laws of Planetary Motion; Newton's Law; Gravitational Potential Energy		
Nov 16	RQ-27	Fluid Mechanics	Chap 14	Physics of Static Fluids; Fluids in Motion; Dynamics of Fluids		
Nov 16	<b>HW-11</b>	Chapter 12,13; Due 9pm				
Nov 19	RQ-28	Fluid Mechanics	Chap 14	Physics of Static Fluids; Fluids in Motion; Dynamics of Fluids		Lab 12 Viscosity of water
Nov 21		Thanksgiving Break—no class				
Nov 23		Thanksgiving Break—no class				
Nov 26	<b>HW-12</b>	Chapter 13,14; Note—different day! Due 9pm				
Nov 26	No RQ	Oscillatory Motion	Chap 15	Simple Harmonic Motion 1, 2, 3, and 4		
Nov 28		Exam 4: Chapters 11, 12, 13, 14, 15 (part)				
Nov 30	RQ-29	Wave Motion	Chap 16	Wave Motion Introduction; The Wave Function; Sinusoidal Waves		
Nov 30	<b>HW-13</b>	Chapter 15, 16; Due 9pm				
Dec 3	RQ-30	Waves and Sound Waves	Chap 17	Wave Motion Introduction; The Wave Function; Sinusoidal Waves		
Dec 5	RQ-31	Superposition and Standing Waves	Chap 18	Wave Motion Introduction; The Wave Function; Sinusoidal Waves		
Dec 7		Summary and review				
Dec 7	<b>HW-14</b>	Chapter 17, 18; Due 9pm				
Dec 11	9 am	Final Examination				