

Fall 2009 PHYSICS FOR TODAY SCSU (Phy111) T+R 11:00-12:15

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Text: Hewitt; **Conceptual Physics 10th edition; Also my solution manual on my website**

This course assumes no previous knowledge of physics. The mathematics will be arithmetic and simple algebra. Regular class attendance is expected and participation is encouraged. **Course objectives** include the ability to explain the topics listed below and working knowledge of the rules listed on the 'things to know by heart' pages of my workbook. Bring your text, notebook and an open mind to class and let's take a look at the world that we live in.

Tentative Schedule

Date	Topic	Chapter	Mandatory H.W.
Sept. 1	Introduction; linear motion displacement, speed, velocity, and acceleration	3	p.54 RQ. 2,3,5-13,18-20,23-26 p.55-57 Ex.1-6,9-11,13,15-18,21,25-30,36 32,33,35,37 p.57 Prob. 2,5,6, Project#1 2pts EC
3	Newton's 1 st Law of Motion inertia,mass	2	p. 36 RQ 9-11,14,15,17,20 Ex. 1,20,21,24,26,37,30,40,46,47,49 Project 2 pts EC
8	Nonlinear motion,Vector addit.	10	p. 204 RQ 1,3,5-7,8,9,11,13
10	Projectile motion, Satellites		p.205-208 EX. 5,10,13,14,19,27,36,51 p. 208 Prob. 2
15	Newton's 2 nd Law of Motion Terminal Velocity	4	p. 69 RQ 3-6,10-12,14,16,19-25,27,30-33 1 step calc. 1,6 p. 71 Ex.1,7,9,13,14,17,21,34,37-39 p. 73 Prob. 2,4
17	Newton's Third law	5	p.87 RQ 4,5,10,11,13,17
22	Weight, tee shirt contest 10 Pt. question	5	p.88 EX. 13,19,21,24,29,40 p. 90 Prob. 2
24	Rotation-centripetal accel.	8	p. 154 RQ 1,2,6,7,13,15,23-26,29,31 Project#1 2pts EC
	torque, angular momentum Moment of inertia	8	p. 156 EX. 18,38,41
29	Gravity-an inverse square law review and catch-up	9	p. 179 RQ 4,6,7,9 p. 181 EX. 3,10,14,25,28,34 p. 183 Prob. 1,2
Oct. 1	EXAM 1		
6	Linear Momentum, impulse	6	p. 105 RQ. 1-4,9,16,
8	Linear Momentum, impulse	6	p. 106 EX. 1-3,5,13,16,18,27,46,48,49 p. 109 Prob. 6,8
13	Work, Power and Energy	7	p. 126 RQ. 2-4,7,8,10,11,17,25,26 p. 127 1-step calc. 1,4,7
15	Work, Power and Energy	7	p. 127-129 Ex. 11,19,20,28,29,32,33,45,61 p. 130 Prob. 4,7; p200 Ex.59
20+22	Fluids, Pressure and Buoyancy	13	p.263 RQ 1-5,7,9,16,21 p.264 1-step calc. 2 Pts EC 1+2 p.264 Ex. 4-6,8,13,14,23,32,35,41
27	Gases, Air Pressure, Bernoulli's Principle Mid-Term grades	14	p. 283 RQ 7-11,13,16,20,22 p. 286 Ex. 9,15,26,55 p. 288 Prob. 1,2
29	Temperature and Heat	15	p. 301 RQ 2,5,7-10,12,15,17 p. 303 Ex.14,25,27,28 p. 305 Prob. 2