

## SYLLABUS

**Textbook:** Young and Freedman, University Physics, 13<sup>th</sup> edition, (Addison Wesley, 2012).

**Useful References:** A host of introductory texts is shelved in Gordon Library, QC 21-23. Several are also conveniently located in Olin 118 (a very comfortable room to study in).

The schedule of day-by-day lecture topics is listed below. To get the most out of each lecture, you should read -- AHEAD OF TIME! -- the respective objectives (see Course Objectives) and skim through the relevant sections in the text (as indicated below), so that the lecture discussions will have something to stick to in your memory banks.

<b>DATE</b>	<b>TOPICS</b>	<b>TEXT</b>	<b>SG*, OBJECTIVES</b>
Th 8/29	Vectors	Sect. 1.7-1.9	1, Obj. 2-5
F 8/30	Displacement, Velocity, Acceleration	Sect. 2.1-2.5	1, Obj. 6, 7
W 9/4	Vectors and Motion	Sect. 2.5, 3.1, 3.2, 3.4	1, Obj. 6-9
F 9/6	Projectile Motion	Sect. 3.3	1, Obj. 9
M 9/9	Newton's Laws	Sect. 4.1-4.6	2, Obj. 10-12
<b>W 9/11</b>	<b>EXAMINATION NO. 1 (ON STUDY GUIDE 1)</b>		
F 9/13	Dynamics	Sect. 5.1, 5.2	2, Obj. 13
M 9/16	Friction and Circular Motion	Sect. 5.3, 5.4	2, Obj. 14
W 9/18	Work, Energy, & Power	Sect. 6.1-6.4	3, Obj. 15-18
<b>F 9/20</b>	<b>EXAMINATION NO. 2 (ON STUDY GUIDE 2)</b>		
M 9/23	Conservation of Energy	Sect. 7.1-7.3	3, Obj. 19-21
W 9/25	Momentum & Impulse	Sect. 8.1	3, Obj. 22-23
F 9/27	Conservation of Momentum	Sect. 8.2	3, Obj. 24
M 9/30	Collisions	Sect. 8.3, 8.4	3, Obj. 24
W 10/2	Torque, Static Equilibrium	Sect. 10.1, 11.1, 11.3	4, Obj. 25
<b>F 10/4</b>	<b>EXAMINATION NO. 3 (ON STUDY GUIDE 3)</b>		
M 10/7	Rotational Kinematics	Sect. 9.1-9.3	4, Obj. 26
W 10/9	Rotational Energy	Sect. 9.4, 9.5	4, Obj. 27
F 10/11	Rotational Dynamics	Sect. 10.2, 10.4	4, Obj. 27
M 10/14	Rotational Momentum	Sect. 10.5, 10.6	4, Obj. 28-30
W 10/16 (day)	Review of Study Guide 4	--	4, Obj. 25-30
<b>W 10/16 (evening)</b>	<b>EXAMINATION NO. 4 (ON STUDY GUIDE 4)</b>		

\* SG = Study Guide