## Syllabus - Spring 2012 Physics 160: University Physics I Course website: <u>http://complex.gmu.edu/www-phys/phys160</u>

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Prerequisite: Math 113; Co-requisite: Math 114

**Required textbook**: <u>University Physics</u>, 13th edition, by Young and Freedman (Pearson/Addison Wesley)

Also required: Mastering Physics access code (see homework section below)

Week	Read in advance	Assignment	Due by Saturday 11:59PM	Exam Date Material
<b>1</b> 1/23	1.1-1.9 (1.10 deferred)	Intro. to MP HW 1	1/28	
<b>2</b> 1/30	Ch. 2	HW 2	2/4	
<b>3</b> 2/6	Ch. 3	HW 3	2/11	
<b>4</b> 2/13	Ch. 4 5.1 - 5.2	HW 4	2/18	
<b>5</b> 2/20	5.3-5.5,1.10, 6.1-6.2	HW 5	2/25	
<b>6</b> 2/27	6.3-6.4	HW 6	3/3	March 2 Chapters 1-5
<b>7</b> 3/5	Ch. 7	HW 7	3/10	
Spring Break				
<b>8</b> 3/19	Ch. 8	HW 8	3/24	
<b>9</b> 3/26	Ch. 9	HW 9	3/31	
<b>10</b> 4/2	1.10 Ch. 10	HW 10	4/7	
<b>11</b> 4/9	Ch. 11	HW 11	4/14	April 13 Chapters 6-10
<b>12</b> 4/16	Ch. 14	HW 12	4/21	
<b>13</b> 4/23	Ch. 13	HW 13	4/28	
<b>14</b> 4/30	Ch. 12	HW 14	5/5	

*Course Goals:* Introduction to the principles of mechanics - concepts of motion, Newton's laws of motion, the law of gravity, conservation of energy, momentum, and angular momentum, rotation, and oscillatory systems.

## Grading:

Midterm exams; 2 @ 20% each		
Final exam	20%	
Online homework (drop lowest 2)		
Recitation	20%	

The <u>final exam</u> will be Friday May 11, 2012, from 10:30AM to 1:15PM and will cover all the material (Chapters 1-14).

## Grade Scale:

A+	[97-100]	B+	[87-90)	C+	[77-80)	D	[60-70)
A	[93-97)	В	[83-87)	C	[73-77)	F	<60
A-	[90-93)	B-	[80-83)	C-	[70-73)		

*Exams:* Bring a scientific calculator for exams. You may bring one 8.5x11" sheet with any notes or formulas on it.

- If you must miss both midterms, or the final exam, then don't take this class.
- <u>No makeup exams will be given</u>. If you must miss one midterm because of something unavoidable (i.e., jury duty), and you tell me in advance, then I will count your final exam for 40% of your grade in place of that midterm. The same applies in the case of significant unforeseen emergencies on the exam date (i.e., broken leg), if you provide appropriate documentation of the emergency.
- If the university closes due to snow, exams scheduled on the date of the closing will be held during the next class session unless otherwise announced. Check the university and class web sites.

*Homework:* Homework will be assigned every week using the online Mastering Physics system. Assignments must be completed online by Saturdays at 11:59PM as indicated in the chart above. Mastering physics can be accessed at the following URL: <u>http://www.masteringphysics.com</u>

Register online using your purchased access code.

- The course ID for this course is **BARRETOSPR2012**.
- Be sure to enter your first and last names correctly, so that proper credit can be assigned.
- Please enter your GMU ID number (excluding the G) in the "student ID" field.

*Honor Code:* Cheating, copying homework, giving or receiving assistance on exams, or other improper conduct will be considered a violation of the Honor Code. See <a href="http://academicintegrity.gmu.edu/honorcode">http://academicintegrity.gmu.edu/honorcode</a>