PHYS1212 Spring Semester 2010

Period 5:  12:20pm - 1:10pm MWF Room 202

Professor Mon, Room 223D

Office Hours:
Monday :  1:15pm - 2:00pm
Wednesday :  1:15pm - 2:00pm
Appointment can be made for other times.

Professor Mon can be reached at 542-3454.

Primary means of communication is to meet with Professor Mon after class or at office hours.
Federal law prohibits discussion of student record without positive identification. This excludes common use of telephone and email. Attendences are mandatory but no roll will be taken.

Grade information may be made available through eLearning Common of UGA.

The course is in two parts. The first has test A and a midterm.
The second part has test B and a final test.
All tests will be closed book and closed notes.

Academic honesty will be strictly enforced.

All students are expected to take all tests.
The dates will be announced in class.

Excused absence from a test must be documented. The midterm test grade will substitute for the excused test A. There will be a makeup for an excused midterm. This makeup will be given at the time of the final test. The final test grade will substitute for the excused test B. A student excused for more than two tests/midterm will be considered for withdrawal.

Grading Policy:

45%(test A + midterm + test B + final test average)
+ 40%(Mastering Physics Online homework)
+ 15%(Lab)
= 100%

The letter grade will be assigned as:

A  = 90 to 100
A-  = 87 to 89
B+  = 83 to 86
B  = 80 to 82
B-  = 73 to 79
C+  = 66 to 72
C  = 56 to 65
C-  = 50 to 55
D = 46 to 49  
F = 0 to 45  

Standard rounding will be used for the final numerical grade. For example, 89.4999 will be 89 and A-, but 89.5 will be 90 and A.

There are no exception to these assignments.

All withdrawals will be processed in accordance with University policy as stated in the undergraduate bulletin. For withdrawals before the midpoint, a grade of "W" will be assigned for all cases. Students are expected to attend all classes but no record of attendance will be taken.

Required Course materials:

1. The textbook is: "Physics for Scientists and Engineers: A Strategic Approach, 2nd ed" by R.D. Knight (Pearson-Addison Wesley, 2008). This is the same text used in Phys 1211.

2. An account on www.masteringphysics.com: An access code to this site is included with the required textbook. If your textbook is an used one, you can purchase an access code through the University book store or online (www.masteringphysics.com).

3. The same lab manual from Phys 1211 will be used in your lab part of the course.

Homework assignment:

Frequent online homework assignments will be an important part of the course. Homework grade is 40% of your total score. Late homework will be reduced in maximum credit by 10% per day. This means homework not submitted for ten days or longer will received no credit. Homework not completed by the last day of class will received zero credit. To account for valid excuses for not being able to submit homework, the lowest homework grade will be dropped in the calculation of grade.

Lecture attendances are mandatory. Learning from your peers can be valuable and encouraged but plagiarism is forbidden.

Students should make maximum use of the online Mastering Physics eLearning facility. Each student's subscription to Mastering Physics also contains access to online tutorials, simulations and limited (two hours) online tutor services. There is also the "student workbook" which is an important part of the course.

We will study chapters 22-24 and 26-35.

Course Schedule: (Changes are likely and will be announced in class.)
Week #1
Jan 8  Chapter  22.1      intro, nature of light

Week #2
Jan 11  Chapter  23.1-4    geometric optics
Jan 13
Jan 15
Week #3
Jan 18   Dr M.L. King Jr Day - Holiday
Jan 20  Chapter  24.1-4   optical instrumentation
Jan 22

Week #4
Jan 25  Chapter  22.2-5   wave optics interference, diffraction
Jan 27
Jan 29   Review for Test A.

Week #5
Feb 1   Test A on Chapters 22, 23, 24.
Feb 3  Chapter  26.1-5    electric charge and force
Feb 5

Week #6
Feb 8
Feb 10  Chapter  27.1-6   electric charge and field
Feb 12

Week #7
Feb 15
Feb 17  Chapter  28.1-6   Gauss's law
Feb 19

Week #8
Feb 22
Feb 24  Review for Midterm Test.
Feb 26  Midterm Test on Chapters 22, 23, 24, 26, 27, 28.

Week #9
Mar  1  Chapter  29.1-2,4  electric potential
       Midterm March 2
Mar  3
Mar  5

Spring Break, March 8 - 12.

Week #10
Mar 15  Chapter  30.1-6   potential and field
Mar 17
Mar 19

Week #11
Mar 22  Chapter  31.1-5   current
Mar 24
Mar 26

Week #12
Mar 29  Chapter  32.1-9   dc current circuits
Mar 31  Review for Test B.
Apr  2  Test B on Chapters 29, 30, 31

Week #13
Apr  5
Apr  7
Apr  9  Chapter  33.1-8   magnetic field force

Week #14
Apr 12
Apr 14
Apr 16  Chapter  34.1-4   Farady induction

Week #15
Apr  19
Apr  21
Apr  23 Chapter 35.1-7 electromagnetic waves

Week #16
Apr  26
Apr  28
Apr  29 is a Monday class and the last day of lecture;
Review for final test.
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Final test on Chapters 29,30,31,33,34,35. :
Wed May 5, 7pm, Room TBA.
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