PHYSICS 206, WINTER of 2006

Please note that this syllabus is subject to change!

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Homepage: http://www.udayton.edu/~physics/ma/ma.htm
Office Hours: **MWF: 11:00-12:00 ; 1:00-2:00 or by appointment.**

TEXT:

***Physics for Scientists and Engineers*, 5th Edition, Extended Version - Paul A Tipler**

COURSE DESCRIPTION AND OBJECTIVES:

This course is designed to provide students with a basic understanding of a range of physical principles and applications traditionally encountered in the beginning level college general physics curriculum. Topics include subjects from kinematics, dynamics, Newton's laws of motion, work and energy, conservation of energy, linear and angular momentum, collisions, rotational motion, gravitation, and oscillations. At the completion of the course the student is expected to be able to apply physical principles to the analysis of a variety of situations, communicate qualitative analyses in writing, and provide quantitative analyses consistent with the mathematical level of the course. In general physics, the student must learn the methods of problem solving and critical examination of the principles underlying each problem, not the mere memorizing of a method of solution.

GRADING: Grades are based on 4 hourly exams worth 16 % each, homework 16 %, and a comprehensive final exam worth 20%. *There are no extra credit assignments.* The assigned grade is based on the following table.

A	A-	B+	B	B-	C+	C	C-	D	F
93%	90	87	83	80	77	73	70	60	< 60

TESTS:

ALL EXAMS ARE CLOSED BOOK WITH A FORMULA SHEET PROVIDED.
Exams are given during normal class period in the usual classroom. All exams must be taken at the assigned time. Make-up tests may be arranged with a LEGITIMATE EXCUSE, such as a medical note. Students missing an exam must see me as soon as possible. Students with an excused absence will be allowed to take a MAKE-UP EXAM to be given near the end of the semester. The final exam will be given according to the Examination Schedule Winter 2006 **(Tue May 02, 12:20-2:10)**.

EXAMINATION DATES (*dates are tentative*):

TEST1 (Chapters 1, 2, 3) – January 20
TEST2 (Chapters 4,5, 6, 7) – February 23
TEST3 (Chapters 8, 9, 10) – March 30
TEST4 (Chapters 11 and 14) –Friday, April 21
FINAL – **Tue May 02, 12:20-2:10**

HOMEWORK

Please check my website for the homework and due dates
"http://www.udayton.edu/~physics/ma/PHY206/Homework.htm"

STRATEGIES TO SUCCEEDING IN THIS COURSE:

- Read subject material before each class.
- Attend every class.
- Start homework problems early and do them on a regular basis; *never fall behind!* For the homework work in groups. However, please keep in mind that it is in your best interest to fully understand each homework problem. Otherwise you will not be able to perform as well on the examinations as someone who has understood each problem.
- Study and understand every relevant example in the textbook. Please do not memorize the answers. Try to understand which principles or laws are employed, and how each step follows from the preceding ones. If there are points you do not understand note them, and ask me about them.
- Participate in class and ask a lot of questions.
- *Office hours are extremely important. Please make use of them*. Please remember that I am here to help you in any way I can so that you can do well.