

Physics 121 - Fundamentals of Physics 1 - Summer I 2010

Contact Information:

Email:

Phone:

Office Hours: M, W, F 1/2 hr. before class or by appointment

Lecture: M-F 5:30 - 6:50

Section 0181: M,W 7-8 discussion; Tu, Th 7-9 lab; TA: Amir (Chris) Najmi

Section 0182: M,W 7-9 lab; Tu, Th 7-8 discussion; TA: Ranchu Mathew

Textbook:

College Physics, A Strategic Approach, Knight, Jones, & Field (Pearson, 2007).

Software: Mastering Physics (comes with a new book, or you can purchase separately from the bookstore or www.masteringphysics.com). CourseID:

Physics 121 Laboratory Manual, UMCP (Wellstood)

Classroom Rules:

We will all treat each other with respect. Please don't speak on the phone or text while in class.

If you need to make an emergency call or send an emergency message, please leave the classroom and come back when you are done. Laptop computers are generally not a good way to take notes, so I don't expect to see them at your desk. If you feel you have a special case, please come see me so we can discuss it.

Grading:

The total grade in the class is calculated according to the following:

| | |
|--------------------------------------|---------------|
| Class Participation/ Reading Quizzes | 5% |
| Homework | 15% |
| Laboratory | 15% |
| Midterms | 45% (3 x 15%) |
| Final Exam | 20% |

I have not yet assigned what the range of percentages are for each letter grade. After each exam I will discuss the class distribution so you know where you stand in relation to the rest of the class. If your final grade is on the borderline, I will discuss your progress with the T.A. before assigning a grade. Please seek help from me or your TA throughout the course if you have any problems.

Laboratory:

There are 9 experiments, all of which must be completed for a passing grade. There are “make-up” days on the lab schedule during which you can do a maximum of 2 missed experiments. You must submit a written request to your T.A. with the name of the experiments you wish to make up at least one day prior to the make up day. Always read the lab manual and review related material in your text before coming to lab. Lab reports should be finished and turned in to the teaching assistant in charge of the section no later than the next lab class day following your lab class. Late reports will be penalized. Your T.A. will discuss the report format and their lab grading policy during the first lab period.

Class Participation:

The class “lecture” period is meant to be an Active Learning environment. This means I will explain concepts and methods for solving problems, and then we will be solving problems together. Bring paper, pencil, and calculators to class every day. You must read the textbook before each class so you are prepared; I will not just retell you what is in the book. You are expected to actively participate in answering questions and discussing problems with your classmates when appropriate.

There will be occasional reading quizzes in class, to check that you have done the reading.

Exams:

There will be 3 midterm exams held during class (80 minutes).

One make-up period is scheduled to cover any exams missed due to illness or another University approved reason. If students will miss an exam for any reason, they must contact me before the exam and give proper documentation to be allowed to make up the exam. The make-up exam will be given Tuesday, July 6, at 11 am.

The final exam must be taken to receive a passing grade in the course. The final exam will be given Friday, July 9, from 5:30 - 7:30 pm.

During exams you can have only a calculator and an index card with equations. The index card should have your name on it and any equations you think you will need, and must be turned in with each exam.

Homework:

Homework will be assigned for each week to do online through Mastering Physics. You will need to get an access number (either with your textbook or you can buy it online). Go to www.masteringphysics.com and log on to the course ID: MICHELMAN2010S1. Solutions will be available immediately after doing the assignment. Homework will be due at midnight on Monday nights and Thursday nights (except for the last 2 weeks of class, where it's due

Wednesday at midnight). See homework assignment schedule. I will also periodically assign homework problems to be written on paper and turned in in class.

Help Available:

It is important to not fall behind in this class, as the pace is rapid and the material builds on previous concepts. If you are having trouble, contact me or the TA. Additional help is available from free tutors in the Slawsky Clinic. It is located in Room 1214 in the Physics building. For more information, see www.physics.umd.edu/academics/ugrad/slowsky.html

Academic Honesty:

You may work in groups on homework problems or for studying, but copying someone else's work is cheating. Any work you turn in must be your own. First work through problems on your own and arrive at an answer. With this preparation, you can then discuss with others and see if you have missed something. More details on the honesty policy can be found at www.testudo.umd.edu/soc/dishonesty.html

Homework Assignment Schedule:

| Date due | Time due | Chapter |
|----------|----------|---------------------------|
| F 6/4 | noon | intro to MasteringPhysics |
| F 6/4 | midnight | 1, 2 |
| M 6/7 | midnight | 3 |
| Th 6/10 | midnight | 4 |
| M 6/14 | midnight | 5 |
| Th 6/17 | midnight | 6 |
| M 6/21 | midnight | 7 |
| Th 6/24 | midnight | 8 |
| M 6/28 | midnight | 9 |
| W 6/30 | midnight | 10, 11 |
| W 7/7 | midnight | 12, 13 |

Syllabus:

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|------------------|--------------------|---|--------------------|--|
| | Tu 6/1 Ch. 1 | W 6/2 Ch. 2 | Th 6/3 Ch. 2, 3 | F 6/4 Ch. 3 |
| M 6/7 Ch. 4 | Tu 6/8 Ch. 4, 5 | W 6/9 Exam 1 (Ch. 1,2,3) | Th 6/10 Ch. 5 | F 6/11 Ch. 5, 6 |
| M 6/14 Ch. 6 | Tu 6/15 Ch. 6 | W 6/16 Ch. 7 | Th 6/17 Ch. 7 | F 6/18 Ch. 8 |
| M 6/21 Ch. 8 | Tu 6/22 Ch. 9 | W 6/23 Exam 2 (Ch. 4,5,6,7) | Th 6/24 Ch. 9 | F 6/25 Ch. 10 |
| M 6/28 Ch. 10 | Tu 6/29 Ch. 11 | W 6/30 Ch. 11 | Th 7/1 Ch. 12 | F 7/2 Exam 3 (Ch. 8,9,10,11) |
| M 7/5 Holiday | Tu 7/6 Ch. 12 | W 7/7 Ch. 13 | Th 7/8 Review | F 7/9 Final Exam |