**Physics 260 – Section 0401, 0402, and 0403 Fall 2013**

**General Physics: Heat, Waves, and Electricity**

**Instructor:**

T.R. Kirkpatrick

Office: IPST Building, Room 1110

(301)405-4801

tedkirkp@umd.edu

**TEXT**: Physics for Scientist and Engineers (Third Edition) - A Strategic Approach by Randall D. Knight.

**CLASS MEETINGS:**

|  |  |  |
| --- | --- | --- |
|  | **Time** | **Location** |
| Lecture: | MW: 7:00-8:15pm | Phys 1410 |

**OFFICE HOURS:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Email** | **Place** | **Phone** | **Time** |
| Prof. Kirkpatrick | tedkirkp@umd.edu | IPST-1110 | 301-405-4801 | W:2:00pm-4:00pm |

You may also meet with the instructor appointment.

**ELECTRONIC CALCULATORS:**

The homework and exam problems require an electronic calculator with scientific functions: trig, log, exponential and arbitrary roots and powers.

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**HOMEWORK**

The weekly homework problem sets, and their due dates, are on the Mastering Physics website.

MASTERING PHYSICS: We will be using Mastering Physics for assignments and managing the course. To register for the course on [Mastering Physics](http://www.masteringphysics.com/) go to their website (<http://www.masteringphysics.com/>). You will need your student ID and the following course ID: MPKIRKPATRICK5013. Use of Mastering Physics will begin with the first assignment so sign up soon.

EXAMS

There will be 3 exams given during the lecture period on the dates shown in the attached schedule. All exams are closed-book exams. A 3x5 index card formula sheet will be allowed for each of the exams. In computing your course grade, the lowest score (after normalization) of the three in-class exams will be dropped. The final exam will be based on the entire semester’s work; the material covered in the in-class exams is indicated on the schedule. Make-up exams will not be given.

**QUIZZES**

Starting the week of September 16, a 10-min quiz will be given during recitation every week except those weeks in which hour exams are scheduled. Each quiz will consist of a slightly revised problem from the homework due the previous week. Make-up quizzes will not be given; however, your lowest quiz score will be dropped.

**LABORATORY**

Physics 261 is the laboratory part of Physics 260. This course carries one credit and the grade is folded in with the Physics 260 course grade. You must pass Physics 261 in order to pass the entire course. If you do not pass this part of the course you will be required to repeat the entire course. The labs meet for three hours a week. You must complete all of the labs, including the culminating labs in order to pass the course. You are expected to attend each class and will be allowed to make up labs only under exceptional circumstances. For more information on the laboratory portion of this course, consult the course with page, or contact the instructors listed in the Schedule of Classes. If you have already taken Physics 261 and want that to count for this semester’s course, go to the Student Services Office, 1120 ask that they officially report the grade to the instructor.

**GRADE**

The course grade will be based on homework, in-class exams, the final exam and the laboratory weighted roughly as follows:

 2-highest in-class exams: 35%

 Quizzes (best 10) 5%

 Homework (best 10) 10%

 Final Exam: 25%

 Laboratory 25%

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**LECTURE AND EXAM SCHEDULE**

|  |  |  |  |
| --- | --- | --- | --- |
| **Day** | **Date** | **Lecture will cover chapters** | **Notes** |
| Wednesday | September 4, 2013 | Chapter 16 |  |
| Monday | September 9, 2013 | Chapter 16 |  |
| Wednesday | September 11, 2013 | Chapter 17 |  |
| Monday | September 16, 2013 | Chapter 17 |  |
| Wednesday | September 18, 2013 | Chapter 18 |  |
| Monday | September 23, 2013 | Chapter 18 |  |
| Wednesday | September 25, 2013 | Chapter 19 |  |
| Monday | September 30, 2013 | Review |  |
| Wednesday | October 2, 2013 | Exam I | Chapters 16-19 |
| Monday | October 7, 2013 | Chapter 20 |  |
| Wednesday | October 9, 2013 | Chapter 21 |  |
| Monday | October 14, 2013 | Chapter 21 |  |
| Wednesday | October 16, 2013 | Chapter 25 |  |
| Monday | October 21, 2012 | Chapter 26 |  |
| Wednesday | October 23, 2012 | Chapter 26 |  |
| Monday | October 28, 2012 | Chapter 27 |  |
| Wednesday | October 30, 2012 | Chapter 27 |  |
| Monday | November 4, 2013 | Review |  |
| Wednesday | November 6, 2013 | Exam II | Chapters 20,21,26,27 (?) |
| Monday | November 11, 2013 | Chapter 28 |  |
| Wednesday | November 13, 2013 | Chapter 28 |  |
| Monday | November 18, 2013 | Chapter 29 |  |
| Wednesday | November 20, 2013 | Chapter 29 |  |
| Monday | November 25, 2013 | Chapter 30 |  |
| Monday | December 2, 2013 | Chapter 30 |  |
| Wednesday | December 3, 2013 |  |  |
| Monday | December 9, 2013 | REVIEW |  |
| Wednesday | December 11, 2012 | EXAM III | Chapters 27(?)-28-30 |

**FINAL EXAM: Tuesday December 17 - 6:30pm – 8:30pm**