**Physics 161 – Sections 0201, 0202, 0203, and 0204 Fall 2014**

**General Physics: Mechanics and particle dynamics**

**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: | TuTh: 11:00am-12: 15pm | Phys 1410 |

**OFFICE HOURS:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Email** | **Place** | **Phone** | **Time** |
| Prof. Kirkpatrick | tedkirkp@umd.edu | IPST-1110 | 301-405-4801 | Tu: 2:30pm-4:00pm |

You may also meet with the instructor by 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: MPKIRKPATRICK69021. 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.

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**GRADE**

The course grade will be based on homework, quizzes, in-class exams, and the final exam. Each exam will be normalized so that the average grade is 70. Similarly, the total quizzes and homework will be normalized so that the average grade is 70.

 2-highest in-class exams: 40%

 Quizzes (best 10) 10%

 Homework (best 10) 15%

 Final Exam: 35%

The final grade will follow previous Phys 161 distributions. Roughly, 24% A, 39% B, 29% C, 4% D, and 4% F.

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**LECTURE AND EXAM SCHEDULE**

|  |  |  |  |
| --- | --- | --- | --- |
| **Day** | **Date** | **Lecture will cover chapters** | **Notes** |
| Tuesday | September 2, 2014 | Chapter 1 |  |
| Thursday | September 4, 2014 | Chapter 2 |  |
| Tuesday | September 9, 2014 | Chapter 3 |  |
| Thursday | September 11, 2014 | Chapter 4 |  |
| Tuesday | September 16, 2014 | Chapter 4 |  |
| Thursday | September 18, 2014 | Chapter 5 |  |
| Tuesday | September 23, 2014 | Chapter 5 |  |
| Thursday | September 25, 2014 | Chapter 6 |  |
| Tuesday | September 30, 2014 | Review |  |
| Thursday | October 2, 2014 | Exam I | Chapters 1-6 |
| Tuesday | October 7, 2014 | Chapter 7 |  |
| Thursday | October 9, 2014 | Chapter 7 |  |
| Tuesday | October 14, 2014 | Chapter 8 |  |
| Thursday | October 16, 2014 | Chapter 8 |  |
| Tuesday | October 21, 2014 | Chapter 9 |  |
| Thursday | October 23, 2014 | Chapter 9 |  |
| Tuesday | October 28, 2014 | Chapter 10 |  |
| Thursday | October 30, 2014 | Chapter 10 |  |
| Tuesday | November 4, 2014 | Review |  |
| Thursday | November 6, 2014 | Exam II | Chapters 7-10 |
| Tuesday | November 11, 2014 | Chapter 11 |  |
| Thursday | November 13, 2014 | Chapter 11 |  |
| Tuesday | November 18, 2014 | Chapter 12 |  |
| Thursday | November 20, 2014 | Chapter 12 |  |
| Tuesday | November 25, 2014 | Chapter 13 |  |
| Tuesday | December 2, 2014 | Chapter 14 |  |
| Thursday | December 4, 2014 | Chapter 14 |  |
| TuesdayThursday | December 9, 2014December 11,2014 | ReviewExam III | Chapters 11-14 |

**FINAL EXAM: Tuesday December 16 - 6:30pm – 8:30pm**