PHYSICS 202 APPLIED PRINCIPLES PHYSICS II

Fall 2016

Lecture: A107 SCI, Tue, Thr. 8:00-8:50

Lab: B104 SCI, Thr 14:00-16:50

Brad Hinaus is the lab instructor

**Instructor**: Timea Hohl

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**Phone**: 715-432-2281

**Office**: SCI B118

**Office Hours**: Thr. 17:30 – 18:30, and by appointment

**Text**: Physics, Walker, 5th edition

**Laboratory:**  The laboratory is mandatory. There is no lab manual. Labs will be posted on D2L at least one day before a lab session is held. It is recommended that you read over the lab prior to coming to the laboratory. Laboratory handouts can be printed at the beginning of each laboratory session. Every student should expect to be actively **participating** in the laboratory. Notice that the lab grade is 25% of your final grade. The lab and lecture are only roughly synchronized, so do not be shy about asking questions!

**Homework:** You will submit homework on paper. After the homework is graded, it will be handed back to you, and you are encouraged to review those during your preparation for exams. Homework due dates will be posted on D2L and announced in class. Homework is to be turned in, at the beginning of the class period, on the date that it is due. Late homework will be accepted within 24 of the due date, but your score will be reduced by 50%. Homework will not be accepted more than 24 hours after the due date.

As with laboratory exercises, you are encouraged to work with others on homework problems, but keep in mind you may see these problems on exams, so you should make sure you understand how to arrive to the correct solutions. A total of 150 points or 15% of your grade can be earned from homework.

**Exams:** Three examinations will be given during the semester. Two 120 minute mid-term exams will be held, as well as a final exam. Each exam is worth 200 points. The mid-term exams will be held in the lab room SCI B104, during the time of the lab session. The final exam is not cumulative, and will be held in SCI A107. See the course calendar (below) for exam dates and times. Missing an exam will earn a grade of 0 (zero). Examinations are not group projects. Plagiarism and cheating are serious offenses and may be punished by failure on the exam; failure in the course; and/or expulsion from the university.

**Grades:**

2 Exams (200 points each), and 1 Final Exam (200 points)

30 points for each lab (250 points total)

Homework (150 points total)

|  |
| --- |
| Distribution of Maximum Possible Points |
| Exams 1 and 2 | | 2 \* 200 = 400 |
| Final Exam | | 200 |
| Homework | | 150 |
| Laboratory | | 250 |
| TOTAL | | 1000 |

Final grades will be determined from the total points as follows:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | A- | B+ | B | B- | C+ | C | D | F |
| 930-1000 | 900-929 | 870-899 | 830-869 | 800-829 | 770-799 | 700-769 | 600-699 | Below 600 |

D2L: A great deal of information about this class will be posted on D2L:

Scores: from homework, exams, and labs, and your final grade.

Announcements: Such as deviations from the course calendar, class cancellations, etc., solutions to some homework, exams, … etc.

Email: Occasionally, announcements will be emailed to you in addition to being posted on D2L.

Individual Help:  Any student who wishes individual help is encouraged to contact me through email or setting up a time to meet in my office.

Note:  **If you have any condition such as a physical or learning disability, which will make it difficult for you to carry out the work as I have outlined it or which will require academic accommodations, please notify me and contact the Office of Disability Services during the first two weeks of the semester in order to request accommodation.**

Tentative Course Schedule: Physics 202, Fall 2016

Exam 1: Electric forces and fields, Electric Energy and Capacitance, Current and Resistance, Direct Current Circuits

Exam 2: Magnetism, Induced Voltage and Inductance, Electromagnetic Waves, Geometrical Optics

Final Exam: Wave Optics, Quantum Physics, Atomic Physics, Nuclear Physics

###### Class Schedule – Fall 2016

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY |
| Sept 5th – Sept 9th  **No Lab held this week** |  | Lect., 8:00-8:50 |  | Lect., 8:00-8:50 |  |
| Sept 12th – Sept 16th  **Lab. 1** |  | Lect., 8:00-8:50 |  | Lect., 8:00-8:50  Lab 1: 14:00-16:50 |  |
| Sept 19th -Sept 23rd  **Lab. 2** |  | Lect., 8:00-8:50 |  | Lect., 8:00-8:50  Lab 2: 14:00-16:50 |  |
| Sept 26th – Sept 30th  **Lab. 3** |  | Lect., 8:00-8:50 |  | Lect., 8:00-8:50  Lab 3: 14:00-16:50 |  |
| Oct 3rd - Oct 7th  **No Lab held this week** |  | Lect., 8:00-8:50 |  | Lect., 8:00-8:50  **Exam1**: 14:00-16:00 in B104 |  |
| Oct 10th - Oct 14th  **Lab. 4** |  | Lect., 8:00-8:50 |  | Lect., 8:00-8:50  Lab 4: 14:00-16:50 |  |
| Oct 17rd - Oct 21st  **Lab. 5** |  | Lect., 8:00-8:50 |  | Lect., 8:00-8:50  Lab 5: 14:00-16:50 |  |
| Oct 24th - Oct 28th  **Lab. 6** |  | Lect., 8:00-8:50 |  | Lect., 8:00-8:50  Lab 6: 14:00-16:50 |  |
| Oct 31st – Nov 4th  **Lab. 7** |  | Lect., 8:00-8:50 |  | Lect., 8:00-8:50  Lab 7: 14:00-16:50 |  |
| Nov 7th – Nov 11th  **No Lab held this week** |  | Lect., 8:00-8:50 |  | Lect., 8:00-8:50  **Exam2**: 14:00-16:00 in B104 |  |
| Nov 14th – Nov 18h  **Lab. 8** |  | Lect., 8:00-8:50 |  | Lect., 8:00-8:50  Lab 8: 14:00-16:50 |  |
| Nov 21st – Nov 25th  **No Lab held this week** |  | Lect., 8:00-8:50 |  | **BREAK** | **BREAK** |
| Nov 28th –Dec 2th  **Lab. 9** |  | Lect., 8:00-8:50 |  | Lect., 8:00-8:50  Lab 9: 14:00-16:50 |  |
| Dec 5th – Dec 8th  **Lab. 10** |  | Lect., 8:00-8:50 |  | Lect. 8:00-8:50  Lab 10:14:00-16:50 |  |
| Dec 12th – Dec 15th  **No Lab held this week** |  | Lect., 8:00-8:50 |  | Lect., 8:00-8:50 |  |
| Dec 19th – Dec 23rd |  | **FINAL EXAM**  **12:30- 14:30** |  |  |  |