INTRODUCTORY PHYSICS FOR SCIENTISTS AND ENGINEERS

Physics 1212  Tu & Th  Period 5  2:20–3:35pm  Room 202  Fall Semester 2020

PHYS 1212 is the second semester of a two semester course in introductory physics. It is a four credit hour course requiring a working knowledge of calculus, trigonometry, algebra, and geometry.

Instructor  Prof. Michael Geller
Office: Room 251 Physics Building
Office hours: By appointment via Zoom
Email: mgeller@uga.edu

Course Website  https://uga.view.usg.edu  (ELC website)

Course Format

This course consists of two lectures and one laboratory per week. The lectures will be used primarily to supplement the material discussed in the book, not present it comprehensively. You will be expected to study assigned material before it is discussed in class. If you do not study the assigned material on your own or do not do the assigned reading before coming to class you will have difficulty in this course. You will be responsible for all the assigned material—it may appear in the homework or on an exam—even if it is not discussed in class.

You must also be registered for one of the laboratory sections which will meet once a week for two hours. The laboratory is required. Graduate teaching assistants will be assigned to be your lab instructors. They will assign you a laboratory grade at the end of the semester. I will include that grade in your overall grade for the course. Questions about the laboratory exercises should be directed to your lab instructor.

This course will adopt a flexible format that will allow students to take the course completely online, if desired. Lectures will be recorded and will be available for asynchronous viewing.

Required Course Materials

Physics for Scientists and Engineers (4th edition), by R. D. Knight (Pearson). Earlier editions are also acceptable. You do not need a Mastering Physics license for this course.

Scientific calculator.

Homework

Homework will be assigned but not collected or graded.

Exams

There will be one midterm exam and a cumulative final exam. Exams will be open book and open note. They will be emailed to you at the exam time and will be collected via email.
Grading

Your final grade will be determined according to:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm exam</td>
<td>35%</td>
</tr>
<tr>
<td>Lab grade</td>
<td>15%</td>
</tr>
<tr>
<td>Final exam</td>
<td>50%</td>
</tr>
</tbody>
</table>

The grading scale is as follows (points rounded to the nearest integer):

- A: 89 - 100%
- A-: 86 - 88%
- B+: 83 - 85%
- B: 79 - 82%
- B-: 76 - 78%
- C+: 73 - 75%
- C: 69 - 72%
- C-: 66 - 68%
- D: 50 - 65%
- F: 0 - 49%

General Information

This syllabus is a general plan for the course and deviations may be necessary. You are responsible for attending every lecture. Each student is responsible for the material discussed in class and the announcements made in class. Absence from class does not relieve one of this responsibility.

If you are *retaking* the course and are happy with the final lab grade you received previously, you do not have to attend the lab. You do have to remain registered for the lab, but you do not have to attend. Please contact Tom Barnello, the Lab Coordinator (tjbar@uga.edu) before the end of the drop/add period so that your seat may be made available to another student. If you would like to improve your lab grade, you must attend the lab and do all of the lab exercises again and take another lab final.

Academic Honesty

All academic work must meet the standards contained in the document *A Culture of Honesty*, available at [www.uga.edu/honesty](http://www.uga.edu/honesty). Every student is responsible for knowing and understanding this policy. If you have any questions concerning this you are obligated to ask me for clarification. Anyone caught cheating will be reported to the university and will receive an F for the course.