PHYSICS 121 - FALL 2003  
Sections 0401, 0402, 0403, 0404, 8101  
University of Maryland  
Department of Physics  
https://www.courses.umd.edu/  
http://www.webassign.net/

TITLE: Fundamentals of Physics I (4 Credits)

INSTRUCTOR: Prof. G.C. Goldenbaum  
Room 1201K,  
Energy Research Building  
Tel.: 301 405 4965  
FAX: 301 314 9437  
email: ggoldenb@deans.umd.edu  
Office Hours: Thursday 2-4 pm, and by appointment

TEACHING ASSISTANTS:  
Richard Willis - Section 0401, 0403  
Office: Phys. Room 4223  Phone: 301 405  
E-mail: tommyw@physics.umd.edu

Ingmar Broemstrup - Sections 0402, 0404, 8101  
Office: Phys. Room 4223  Phone: 301 405 6192  
E-mail: ibroemst@umd.edu

PREREQUISITE: Previous work in trigonometry or MATH 115

TEXT: Serway and Faughn, College Physics

LECTURES: Z 1412 (Physics Bldg.), Tu 6:30 - 8:20 pm, Thur 6:30 - 7:20 pm

SECTIONS:  
0401 Wed 6:30 - 7:20 pm  PHY 3301  Mon 7:30 9:20 pm
0402 Mon 6:30 -7:20 pm  PHY 1201  Wed 7:30 - 9:20 pm
0403 Thu 7:30 - 8:20 pm  PHY 3301  Tue 4:30 - 6:20 pm
0404 Tue 8:30 - 9:20 pm  PHY 1402  Thu 7:30 - 9:20 pm
8101 Tue 8:30 - 9:20 pm  PHY 1402  Thu 7:30 - 9:20 pm

COURSE DESCRIPTION: This is the first semester of a two-semester sequence in introductory physics. The subjects covered will be mechanics, fluids, heat, vibrations and waves, sound. This is a non-calculus sequence, but it does make extensive use of algebra, trigonometry, and elementary geometry.
HOMEWORK:  Homework will be done on the computer at http//:webassign.net.  In order to utilize this website you will either need to purchase an access card at the Student Union or use a credit card to pay on the web.  Homework will be assigned at each Monday and due the following Monday at 10:00AM.  Late homework will not be accepted.  How to use the website will be explained in the first lecture.

QUIZZES: Starting the week of Sept. 8, a 10-min quiz will be given during Discussion every week except those weeks in which hour exams are scheduled and Spring Break week. Each quiz will consist of a slightly revised problem from the homework due the previous week. Make-up quizzes will not be given.

LABORATORIES: The laboratory experiments are a very important part of this course. All experiments must be completed in order to pass the course. Lab reports will be handed in at the end of the two-hour period. Late reports will receive a score of zero but will be counted towards the requirement of completing all experiments. You are expected to arrive at the laboratory well prepared, having answered any pre-lab questions.

EXAM DATES: Hour exams: Thursday, Oct. 2 Thursday, Nov 6 Thursday, Dec 4

Final exam: Tuesday, Dec 16 6:30 pm -8:30 pm

EXTRA HELP: I will be available after each lecture to answer questions. Or come see me during my office hours or make an appointment for another time. Your TAs will also have office hours. Free help with homework for Physics 121 is also available from experienced volunteers at the Slawsky Physics Clinic. The Clinic is on the first floor of the Physics Bldg and will have a schedule posted on the door. You are encouraged to seek help at the first sign of difficulties.

GRADING: Your semester grade will be based on the following percentages:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hour exams</td>
<td>45%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Homework</td>
<td>10%</td>
</tr>
<tr>
<td>Laboratories</td>
<td>20%</td>
</tr>
<tr>
<td>Final exam</td>
<td>15%</td>
</tr>
</tbody>
</table>

SCHEDULE CONFLICTS: If you miss a lecture, you are responsible for finding out from a classmate what was done in class. Makeup exams will only be given if you have a valid doctor’s note stating that you were too ill to take the exam.

DISABILITY SUPPORT SERVICE: If you have a documented disability and wish to discuss academic accommodations, please contact me as soon as possible.
TIPS FOR DOING WELL:

1) Read the material in the textbook before and after the material is covered in lecture.

2) Freely ask questions in lecture and in recitation.

3) Work all of the homework problems. This is how you learn physics. You are allowed and encouraged to discuss homework with anyone you wish. However, in order to learn, you should initially make a serious attempt to solve the problems by yourself.

4) Seek help immediately if you do not understand the material. If you have difficulties with the homework, try to analyze what is causing you problems. That is the first step towards better understanding. Don't wait until just before exams.

5) Remember that you are responsible for material discussed in class, including demonstrations, even if it does not appear in the textbook. You are also responsible for material in assigned readings even if not covered in class.