Physics 111: Introductory Mechanics

Fall 2004
O169 (Olin Hall)
MTRF
Text: Physics for Scientists and Engineers (R.D. Knight), Chapters 1-12

Dear students,

Welcome to Physics 111! Mechanics is the study of motion and its causes. We are going to carefully define quantities like velocity, acceleration, force, mass, energy, and momentum, and learn how they come together to create Newtonian Mechanics. It will change the way you see the world, from the motion of your car, to the operation of levers, springs, and pulleys, to the motion of the stars, planets, and spacecraft.

Your grade will be determined as follows:

Homework: 15% Due in class every week (see reverse side).
Exam 1: 15% In class, TBA
Exam 2: 15% In class, TBA
Exam 3: 15% In class, TBA
Lab: 15% You must pass the lab to pass the course.
Final Exam: 25% Week of November 15.

Here are the letter grades:

<table>
<thead>
<tr>
<th>Final average</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 -100</td>
<td>A</td>
</tr>
<tr>
<td>86 - 89</td>
<td>B+</td>
</tr>
<tr>
<td>80 - 85</td>
<td>B</td>
</tr>
<tr>
<td>76 - 79</td>
<td>C+</td>
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<tr>
<td>70 - 75</td>
<td>C</td>
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<tr>
<td>66 - 69</td>
<td>D+</td>
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<tr>
<td>60 - 65</td>
<td>D</td>
</tr>
<tr>
<td>59 – below</td>
<td>F</td>
</tr>
</tbody>
</table>

The course web site is here:

http://www.rose-hulman.edu/Class/phao/PH/111-2004/DAB/PHOE111Branning/
TEN THINGS ABOUT HOMEWORK

These practices will help make sure that the homework does what it is supposed to do – give you practice at solving problems – and that you receive proper credit for doing so. Please observe them.

1.) Write legibly and show your work. You will not get credit for an answer unless the grader can see your work, read it, and understand what you are doing. It is up to you to make your thought process clear on the page. Give each problem enough space on the page so that it can be read easily.

2.) Your work must be done by hand, although you can use Maple or some other computer program to check your work.

3.) Significant figures are important and will be graded. Sometimes, however, you will see problems in which numbers are given to only one significant digit (i.e., a 30° angle). In these cases, please assume that these data are known to three significant figures, unless otherwise indicated.

4.) I encourage you to work with others on homework problems, but the work you hand in must be your own. Directly copying someone else’s work, with or without their permission, is plagiarism and will be treated as such.

5.) Your homework must be stapled.

6.) In the upper right-hand corner of the first page, please write:

   Your name
   Campus Box Number
   Physics 111
   HW A
   Date

7.) Homework solutions will be posted on the web site after your work is turned in.

8.) On the day that you hand in your homework, I will conduct a homework review session, where I can answer your questions about the homework that you have handed in. These review sessions will usually be at 7:00 P.M. in the GM Room (Moench B111).

9.) Late homework will not be graded. If you are not going to be able to complete an assignment by the due date, let me know ahead of time in writing (e-mail is fine), and we can work something out.

10.) Homework will be returned to you by campus mail, usually within one week after you turned it in.