Intro Physics Lab
Physics 204
Syllabus Summer 2014

Professor: Dr. Josh Peterson
Email: jpeters4@uoregon.edu
Office: Willamette Room 45 (But you will probably find me in the Lab room)
Office Hours: 10 – 12 Monday, Thursday, Friday Or by appointment.

Teaching Assistants:
- William Dumas
dumas2@uoregon.edu
Office: Willamette 231
Office Hours:
Drop in Center:
- Rick Montgomery
rmontgom@uoregon.edu
- Nathan Wilson
npw@uoregon.edu

Class times
1 – 3:20 PM
3:30 – 5:50 PM
6 – 8:20 PM (Lots of open seats)

Course Objectives:
- Explore the basic principles of the introductory physics course in a laboratory setting.
- Devise experiments to obtain useful quantities for solving problems.
- Practice extracting data from graphs and instruments.
- Practice thinking critically and quantitatively about the world around us.
- Bridge the gap between equations on a page and the physical world

More Stuff:
TextBook: “RealTime Physics, Active Learning Laboratories, Module 1 Mechanics”, Author Sokoloff
- Supplemental Handouts: See Blackboard for weekly lab handouts
- This course is the laboratory complement to Physics 201 lecture.

Grading Breakdown
- 20% Final Exam (Comprehensive)
- 13% Quiz 1 (Kinematics)
- 13% Quiz 2 (Forces)
- 13% Quiz 3 (Energy and Momentum)
- 5% Quiz 4 (Rotational Motion)
- 9% Prelabs (not graded for correctness)
- 9% Predictions (Not graded for correctness)
- 18% Lab packet

Grading:
F < 60
60 < D_minus < 63 < D < 67 < D_plus < 70
70 < C_minus < 73 < C < 77 < C_plus < 80
80 < B_minus < 83 < B < 87 < B_plus < 90
90 < A_minus < 93 < A < 100 < A_plus

- Each daily lab is worth a total of 4% of your grade
  - Prelab, predictions, packet
  - This collection of materials will be recorded as one score.

- There are 10 scheduled lab periods.
- You will be graded on your highest 9 of these labs.
  - You can miss one lab without penalty
  - **BUT** you are still responsible for the material that you miss on the quizzes and exam.
The Lab Daily Routine:
• Print the lab from blackboard before class
• Complete prelab before the start of class
• Have instructor check your prelab for completeness
  • Late prelabs will not be accepted
• Do (and understand) the lab
• Write up the lab report and answer homework questions.
• Completed lab packets are due Monday after the quiz.
• Late work will entail a 10% penalty per day it is late
• Points for the lab will be clearly denoted

The lab packets will be checked for completeness not correctness.
What you learned will be assessed during the quizzes.
It is your responsibility to learn the material

Lab Course Schedule:

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Lab activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>2013-06-23</td>
<td>Math quiz, getting used to Logger Pro</td>
</tr>
<tr>
<td>Wednesday</td>
<td>2013-06-25</td>
<td>Position, velocity, acceleration, and time</td>
</tr>
<tr>
<td>Thursday</td>
<td>2013-06-26</td>
<td>Getting used to forces</td>
</tr>
<tr>
<td>Monday</td>
<td>2013-06-30</td>
<td>F = MA and gravity</td>
</tr>
<tr>
<td>Wednesday</td>
<td>2013-07-02</td>
<td>Gravity</td>
</tr>
<tr>
<td>Thursday</td>
<td>2013-07-03</td>
<td>Projectile Motion</td>
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<tr>
<td>Monday</td>
<td>2013-07-07</td>
<td>Work and energy</td>
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<tr>
<td>Wednesday</td>
<td>2013-07-09</td>
<td>Conservation of energy</td>
</tr>
<tr>
<td>Thursday</td>
<td>2013-07-10</td>
<td>Conservation of momentum</td>
</tr>
<tr>
<td>Monday</td>
<td>2013-07-14</td>
<td>Rotational Motion</td>
</tr>
<tr>
<td>Wednesday</td>
<td>2013-07-16</td>
<td>Review day (and make up lab day)</td>
</tr>
<tr>
<td>Thursday</td>
<td>2013-07-17</td>
<td>3:30 PM All sections</td>
</tr>
</tbody>
</table>

Final Exam (comprehensive)

Attendance Policy:
• There are 10 scheduled lab periods.
• You will be graded on your highest 9 of these labs.
  • You can miss one lab without penalty
  • If you miss more than one lab, contact Peterson to schedule a make up.
  • If you know that you are going to miss a lab, contact Peterson beforehand. It is easiest for you and me, if you simply come to a different section of the labs. The night class has a lot of open seats.

Final Exam: Students should not plan on taking the final exam early. Airplane tickets are not a valid excuse. Students wishing to take the exam before the scheduled test date will entail a 25% penalty.

PLAN ON TAKING THE TEST AT THE SCHEDULED TIME!!! (July 17, at 3:30 PM)

Disabilities:
I’m fully committed to help each and every student perform to the best of their ability in this lab. For students with special testing needs, a secondary quite classroom will be available for your tests and quizzes. Contact Peterson if this is not a suitable solution to your needs and we will work something out.