Intro Physics Lab
Physics 204
Syllabus Fall 2013

Instructor: Dr. Josh Peterson
Email: jpeterson@uoregon.edu
Office: Willamette Room 45
Office Hours: Monday 14:00 – 15:00
Tuesday 13:00 – 14:00
Wednesday 13:00 – 14:00
Or by appointment or when you see me.

Teaching assistants:
David Shook
Teaching: Monday 15:00-17:30
Email: davidshook@uoregon.edu
Office: Willamette 231
Office Hours: TBA
Drop in Center: TBA

Andrew Blaikie
Teaching: Tuesday 12:30-15:00
Email: ablaikie@uoregon.edu
Office: Willamette 218
Office Hours: Thursday 9 –10 AM
Drop in Center: Friday 8 – 9 AM

Jordan Palamos
Teaching: Tuesday 18:00-20:30
Email: jpalamos@uoregon.edu
Office: Willamette 216
Office Hours: Wednesday 11 – 12 AM
Drop in Center: Friday 11 – 12 AM

David Shook
Teaching: Monday 15:00-17:30
Email: davidshook@uoregon.edu
Office: Willamette 231
Office Hours: TBA
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Andrew Blaikie
Teaching: Tuesday 12:30-15:00
Email: ablaikie@uoregon.edu
Office: Willamette 218
Office Hours: Thursday 9 –10 AM
Drop in Center: Friday 8 – 9 AM

Jordan Palamos
Teaching: Tuesday 18:00-20:30
Email: jpalamos@uoregon.edu
Office: Willamette 216
Office Hours: Wednesday 11 – 12 AM
Drop in Center: Friday 11 – 12 AM

Kevin Walton
Teaching: Monday 18:00-20:30
Email: kwalton@uoregon.edu
Office: Willamette 218
Office Hours: Thursday, 2 – 3 PM
Drop in Center: Tuesday 12 – 1 PM

John Ruffin
Teaching: Tuesday 15:00-17:30
Email: jruffin@uoregon.edu
Office: Willamette 218
Office Hours: TBA
Drop in Center: TBA

William Dumas
Teaching: Wednesday 15:00-17:30
Email: dumas2@uoregon.edu
Office: Willamette 216
Office Hours: TBA
Drop in Center: TBA

Emily Hommerding
Teaching: Tuesday 9:00-11:30
Email: erh@uoregon.edu
Office: Willamette 219
Office Hours: Thursday 11 – 12 AM
Drop in Center:

Peter Lindstrom
Teaching: Tuesday 15:00-17:30
Email: peterl@uoregon.edu
Office: Willamette 216
Office Hours: TBA
Drop in Center:

Ellis Roe
Teaching: Wednesday 18:00-20:30
Email: ellisr@uoregon.edu
Office:
Office Hours:
Drop in Center: Tuesday 10 – 11 AM

More Stuff:
- This course is the laboratory complement to Physics 201 lecture.
- Lab Class Room: Willamette 13
- TextBook: “RealTime Physics, Active Learning Laboratories, Module 1 Mechanics”, Author Sokoloff
- I strongly encourage you to also have a regular physics textbook. A cheap used edition should be fine.

Course Objectives:
- Explore the basic principles of the introductory physics course in a laboratory setting.
- 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

Grading:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 -100%</td>
<td>10% Prelab</td>
</tr>
<tr>
<td>B</td>
<td>80-90%</td>
<td>45% Lab reports</td>
</tr>
<tr>
<td>C</td>
<td>70-80%</td>
<td>25% Homework questions:</td>
</tr>
<tr>
<td>D</td>
<td>60-70%</td>
<td>20% Final exam</td>
</tr>
<tr>
<td>F</td>
<td>0-60%</td>
<td></td>
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</tbody>
</table>
The Lab Daily Routine:
- Turn in prelab at the start of class
  The reason it is called prelab is because it is done before you walk into the lab
  Late prelabs will not be accepted.
- Do the lab
  Work in groups of 3 to 4 collecting data
- Write up the lab report and answer questions.
  Each student turns in their own lab report
  Completed lab reports and homework are due at 4 PM Thursday
  Turn in at Homework box (Near Willamette Room 009)

Resources for confused students:
- Use your instructor and TA’s. You are paying us to teach you. Ask us questions if you are confused.
- Physics drop in center: Willamette 147. Check schedule on door for hours.
- The TAs of other sections of the 204 class.
- Physics reading room, Atrium Willamette Hall
- Your textbook

Lab Course Schedule:

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Prelab pages</th>
<th>Lab pages</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sept 30 – Oct 2</td>
<td>NONE</td>
<td>---</td>
<td>Math quiz, getting used to equipment</td>
</tr>
<tr>
<td>2</td>
<td>Oct 7 – Oct 9</td>
<td>1, 31</td>
<td>1 – 60 (Selected Pages)</td>
<td>Position, velocity, acceleration, and time</td>
</tr>
<tr>
<td>3</td>
<td>Oct 14 – Oct 16</td>
<td>61</td>
<td>31 – 82 (Selected Pages)</td>
<td>Getting used to forces</td>
</tr>
<tr>
<td>4</td>
<td>Oct 21 – Oct 23</td>
<td>83, 107, 125</td>
<td>107 – 146 (Selected Pages)</td>
<td>F = MA and gravity</td>
</tr>
<tr>
<td>6</td>
<td>Nov 4 - Nov 6</td>
<td>175</td>
<td>175 – 196</td>
<td>One dimensional collisions</td>
</tr>
<tr>
<td>7</td>
<td>Nov 11 – Nov 13</td>
<td>197</td>
<td>197 – 212</td>
<td>Newton’s 3rd law, conservation of momentum</td>
</tr>
<tr>
<td>8</td>
<td>Nov 18 – Nov 20</td>
<td>231</td>
<td>231 – 252</td>
<td>Work and energy</td>
</tr>
<tr>
<td>9</td>
<td>Nov 25 – Nov 27</td>
<td>Make up lab (Thanksgiving week)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Dec 2 – Dec 4</td>
<td>253</td>
<td>253 – 270</td>
<td>Conservation of energy</td>
</tr>
<tr>
<td>11</td>
<td>Dec 12, 18:00</td>
<td>Final exam</td>
<td>Room TBA</td>
<td></td>
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NOTE: Dates and labs are subject to change. Check blackboard for an up to date list of the activities.

The Bold Print:
You must complete all laboratory work to pass the course. If you are absent you must schedule make-up work. If it is an absence because of illness/injury or other legitimate reason you may make-up the work without penalty. Any other make-up work that is accepted will entail a late-penalty. Note that for the 204 labs an absence begins 10 minutes after the official start time as measured by the instructor on-duty. If you are later than this you will be required to depart and schedule a make-up session.

Disabilities:
I’m fully committed to help each and every student perform to the best of their ability in this lab. The “accessible education center” (http://aec.uoregon.edu) exists to help students achieve the access to educational resources. If you anticipate needing special consideration or accommodation please contact me immediately so we may discuss your situation.