Course Description: This course will cover the first half of a year-long introductory physics class. Topics covered include: kinematics, forces, energy, power, momentum, gravity, rotation, fluids, and sound waves.

Prerequisite(s): First semester of calculus

Credit Hours: 4
To reduce the cost and the number of texts associated with the course, we have asked the publisher to print a custom 14th edition specifically for Washington University. If you purchase this custom edition from the campus bookstore, you will only need one volume of the text each semester. You may, however, purchase a copy of the standard 14th edition from another source. If you choose to go this route, you will need Volumes I and III for Physics 117 and Volumes II and III for Physics 118.

Course Structure: You are enrolled in a semester-long course condensed down to five weeks. This has the consequence of a faster paced class. Class meets every day for three hours each day; this is a long time to sit in a lecture. I plan on breaking up the three hours between lecturing, group problem solving, and demonstrations. There will be one or two short breaks each day.

Course Policies:

- General
  - Homework will be assigned every day, due the following day, with Friday being an exception
  - There will be a quiz at the beginning of every class

- Grades
  - Grades will be maintained in blackboard. Students are responsible for tracking their progress by referring to the online gradebook.
  - Any regrade requests must be made within one week of receiving graded work.

- Homework
  - Since there is an exam every Friday, the homework assigned on Thursday will be due on Monday.
  - There will still be homework assigned on Friday which will also be due on Monday.
  - Feel free to work together on homework, but be sure to turn in your own work.
  - No late assignments will be accepted.

- Quizzes and Exams
  - There will be an exam every Friday from 9:15AM-12:00PM in the usual classroom. Exams will be followed by a normal lecture from 1:30PM-4:30PM.
  - Each exam is worth 12% of your grade for a total of 60%.
  - Exams will not be cumulative. Keep in mind that many concepts in physics build on each other.
  - I will provide an equation sheet for exams. The only thing you need to bring is a writing utensil.
  - There will be a quiz at the beginning of every class. Each quiz will consist of a few multiple-choice clicker questions based on material from the previous class.
  - There is no quiz grade. However, your quiz average can replace your lowest test grade.
• Clickers
  – Clickers will be used in each class. Each student must check out a clicker from Olin Library. If possible, do this before the first class meeting on June 12th, otherwise be sure to have the clicker by the second meeting, June 13th.
  – If another class that you are taking also uses clickers, you can use the same unit for both classes, but you must register it in Blackboard for each.
  – It is a serious violation of WU academic integrity policy to ask another student to submit clicker answer for you or to submit answers on another student’s clicker.

• Attendance
  – Attendance is required.
  – Due to the fast-paced nature of this class, a lot is covered in just one session. This makes it difficult to catch up from an absence.

Laboratory

• Laboratory experience is an integral component of the course to provide you with a hands-on opportunity to explore concepts and to develop careful measurement and documentation skills. No lab experiments, assessments, or quiz scores will be dropped, so failure to complete them will result in a zero for the assignment and thus negatively affect your grade. Complete details about lab policies, procedures, and requirements are available on the lab website at http://physics.wustl.edu/introphys/.

• Lab meets Monday and Wednesday from 1:30PM - 4:30PM. The first lab meeting is on Wednesday, June 14th. Note that the Friday afternoon session will be used as a lecture.

• Before the first lab session, you should download and read the Introductory Physics Lab Information Sheet from the lab website. You must also complete the following three Blackboard quizzes: The Lab Information Quiz, the Units Quiz, and the Pre-Lab. The Lab Information and Measurement Pre-lab quizzes must be completed by Wednesday, June 14th at 1:30PM. The Units quiz must be completed by 1:30 on June 19th. After these deadlines, you will not be allowed to complete the quizzes for any reason.

Grade Distribution:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Labs</td>
<td>20%</td>
</tr>
<tr>
<td>Homework</td>
<td>20%</td>
</tr>
<tr>
<td>Exams</td>
<td>60%</td>
</tr>
</tbody>
</table>

Letter Grade Distribution:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>73.00 - 76.99</td>
</tr>
<tr>
<td>A-</td>
<td>70.00 - 72.99</td>
</tr>
<tr>
<td>B+</td>
<td>67.00 - 69.99</td>
</tr>
<tr>
<td>B</td>
<td>63.00 - 66.99</td>
</tr>
<tr>
<td>B-</td>
<td>60.00 - 62.99</td>
</tr>
<tr>
<td>C+</td>
<td>&lt;= 59.99</td>
</tr>
<tr>
<td>C</td>
<td>&lt;= 59.99</td>
</tr>
<tr>
<td>C-</td>
<td>&lt;= 59.99</td>
</tr>
<tr>
<td>D</td>
<td>&lt;= 59.99</td>
</tr>
<tr>
<td>D-</td>
<td>&lt;= 59.99</td>
</tr>
<tr>
<td>D+</td>
<td>&lt;= 59.99</td>
</tr>
<tr>
<td>F</td>
<td>&lt;= 59.99</td>
</tr>
</tbody>
</table>
Academic Integrity Students are encouraged to study together in groups, but all work submitted for a grade is expected to be completed individually. Cheating on exams or quizzes, copying homework or laboratory work, asking another student to use your clicker when you are not in class or your using another persons clicker are serious offenses. We refer all suspected cases to the Committee on Academic Integrity.

Opportunities for Assistance

- **Instructor Office Hours**
  
  - Don’t hesitate to take advantage of my office hours. If the given hours don’t work for you, send me an email and we can schedule a time.

- **TA Office Hours**
  
  - Don’t hesitate to take advantage of the TA office hours.

- **Private Tutoring**
  
  - Private tutoring can be arranged (for a fee) with some of our advanced undergraduates and graduate students. A list of these tutors is provided on the course web page and in the display case outside Crow 201.