Conceptual Physics
Physics 110
Winter 2009 Syllabus

Instructor
- Frank Skorina
- Office 040, frank.skorina@wwcc.edu
- 527-4578 (w), 301-3839 (c), 527-4480 (fax)

Room
- Walla Walla—Room 285, ITV room
- Clarkston—Room 201, ITV room

Course Description
This is a single-quarter course that serves as an introduction to physics. The course will emphasize physics concepts and is light on computation. Light on computation still means that knowledge of algebra is required. Motion, force, energy, and gravity will be covered. We will also cover fluids, i.e., liquids and gases.

Class Schedule
- Mondays, Wednesdays, Thursdays, and Fridays, 10:30 am – 11:20 am
- Tuesdays, 10:30 am – 12:20 pm (LABS)
- No class on Monday, January 19 (MLK's Day)
- No class on Monday, February 16 (Presidents' Day)
- No class on Thursday, March 5 (Advising Day)
- Last class is on Tuesday, March 17
- Final exam is on Wednesday, March 18, 10:30 am – 12:20 pm

Materials
- Conceptual Physics, Tenth Edition by Paul G. Hewitt
- Calculator

Grading
- Homework, 0%
- Daily Reports, 5%
- Labs, 15%
- Quizzes, 15%
- Exams, 15% each
- Final Exam, 20%
- Grade Table where x is the percent of points earned:

<table>
<thead>
<tr>
<th>Grade</th>
<th>x range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>93 ≤ x ≤ 100</td>
</tr>
<tr>
<td>B+</td>
<td>87 ≤ x ≤ 90</td>
</tr>
<tr>
<td>B</td>
<td>83 ≤ x &lt; 87</td>
</tr>
<tr>
<td>C</td>
<td>77 ≤ x &lt; 80</td>
</tr>
<tr>
<td>D+</td>
<td>73 ≤ x &lt; 77</td>
</tr>
<tr>
<td>D</td>
<td>67 ≤ x &lt; 70</td>
</tr>
<tr>
<td>B-</td>
<td>60 ≤ x &lt; 67</td>
</tr>
<tr>
<td>C-</td>
<td>57 ≤ x &lt; 60</td>
</tr>
<tr>
<td>A-</td>
<td>50 ≤ x &lt; 57</td>
</tr>
<tr>
<td>B</td>
<td>43 ≤ x &lt; 50</td>
</tr>
<tr>
<td>C</td>
<td>37 ≤ x &lt; 43</td>
</tr>
<tr>
<td>D</td>
<td>30 ≤ x &lt; 37</td>
</tr>
<tr>
<td>F</td>
<td>0 ≤ x &lt; 30</td>
</tr>
<tr>
<td>F</td>
<td>x ≤ 0</td>
</tr>
</tbody>
</table>
Homework
Homework will be given almost everyday. It is your responsibility to do and understand the homework. I will answer questions from the homework during the following class period. I will not collect and correct homework. Doing your homework when assigned will increase your grade because you will do better on quizzes and exams.

Labs
- Most Tuesdays
- Required participation
- Each lab grade will be based on attendance, a worksheet, and/or a lab report

Quizzes
There will be approximately 25 quizzes. Quizzes will be on the material just covered, usually on the previous night’s homework. The top 20 quizzes will count towards the final quiz grade. Quizzes will be graded out of 5. There will not be any opportunity to make up quizzes.

Exams
- Four exams during the quarter.
- Lowest exam score dropped.
- There will not be any opportunity to make up exams.
- One comprehensive final exam.

Accommodations
If you have a disability and need accommodations, please see the instructor after class or contact Claudia Angus, the Disabilities Coordinator at claudia.angus@wwcc.edu or 509-527-4543.

Expectations
- Attendance, everyday and on-time
- No use of cell phones or computers during class
- Pre-reading the material
- Honest attempt to do the homework before class
- If you do not understand the material, take steps to understand it by
  1. Rereading the text and your notes
  2. Working with classmates
  3. Visiting the Science Learning Center
  4. Asking the instructor
Weekly Schedule

Week #1, January 5 – January 9
   Chapter 2 – Newton’s First Law of Motion—Inertia
   Chapter 3 – Linear Motion

Week #2, January 12 – January 16
   Chapter 4 – Newton’s Second Law of Motion

Week #3, January 20 – January 23
   No class Monday, January 19
   Exam #1 on Wednesday, January 21 (Chapters 2-4)
   Lab on Thursday this week
   Chapter 5 – Newton’s Third Law of Motion

Week #4, January 26 – January 30
   Chapter 6 – Momentum
   Chapter 7 – Energy

Week #5, February 2 – February 6
   Chapter 7 – Energy (continued)
   Exam #2 on Thursday, February 5 (Chapters 5-7)
   Chapter 8 – Rotational Motion

Week #6, February 9 – February 13
   Chapter 8 – Rotational Motion (continued)

Week #7, February 17 – February 20
   No class Monday, February 16
   Chapter 9 – Gravity
   Chapter 10 – Projectile Motion

Week #8, February 23 – February 27
   Chapter 10 – Projectile Motion (continued)
   Exam #3 on Friday, February 27 (Chapters 8-10)

Week #9, March 2 – March 6
   Chapter 13 – Liquids
   No class Thursday, March 5

Week #10, March 9 – March 13
   Chapter 14 – Gases and Plasmas

Week #11, March 16 – March 18
   Exam #4 on Monday, March 16 (Chapters 13-14)
   Review
   Final Exam on Wednesday, March 18 (Chapters 2-10, 13-14)

Disclaimer
Instructor reserves the right to make changes to this syllabus at any time.