Introduction to General Physics I (PHYS 1021)  
Course Syllabus Fall 2014

1 Instructor Information

Name: Dr. Tsvetelin D. Tsankov  
Office: Barton Hall BA 222  
E-mail: tsankov@temple.edu  
Phone: 215-204-3168  
Office Hours: Wednesday, Thursday and Friday 2:00 - 5:00

2 Time and Places

Lectures: Monday, Wednesday and Friday 12:00-12:50, Barton Hall BA 130

Recitations (Barton Hall BB 409):
01 Wednesday 1:00-1:50  
02 Monday 10:00-10:50  
03 Monday 11:00-11:50  
04 Monday 1:00-1:50

Labs (room BA 104):
041 Monday 3:00-4:50  
042 Monday 10:00-11:50  
043 Monday 1:00-2:50  
044 Friday 10:00-11:50  
045 Tuesday 10:00-11:50  
046 Tuesday 2:00-3:50  
047 Friday 1:00-2:50  
048 Wednesday 11:00-12:50  
049 Wednesday 1:00-2:50  
050 Wednesday 9:00-10:50  
051 Thursday 10:00-11:50  
052 Thursday 2:00-3:50  
053 Tuesday 12:00-1:50  
057 Wednesday 3:00-4:50

3 Course Description

Fundamental physics concepts and principles are introduced and applied to the study of motions of rigid and deformable bodies, liquids and gases.
4 Textbook

*Essential College Physics* Volume 1 with *Mastering Physics* kit, 1st edition
Authors: Andrew Rex and Richard Wolfson
Publisher: Pearson/Addison-Wesley
ISBN-10: 0321611187

Students might also consider obtaining the Student Solutions Manual:
*Student Solutions Manual for Essential College Physics*, Volume 1
Authors: Andrew Rex and Richard Wolfson
Publisher: Pearson/Addison-Wesley
ISBN-10: 0321611209

5 Assessment

5.1 Exams

There will be three exams in the course of the semester. They will be held during class time (50 minutes) and are scheduled as follows:

- Conceptual Exam 1 - Week #6, Friday, October 3.
- Midterm Exam - Week #10, Friday, October 31.
- Conceptual Exam 2 - Week #13, Friday, November 21.

The conceptual exams are structured as closed-book multiple-choice tests containing 24 questions with 4 possible answers per question. The midterm exam consists of 3 problems similar in style to the problems discussed in recitation and assigned for homework. Students are supposed to provide complete written solutions. The instructor will provide an equation sheet to be used during the exam.

Each exam contributes 10% towards your final course grade.

5.2 Lab Reports

Upon completion of a lab exercise you need to write individually a formal lab report, describing your work. The lab report should be written in concise language and contain the following:

1. Title, including date and names of group participants, your name must be underlined
2. Statement of the topics that were investigated
3. Brief description of the actions taken in the process of investigation, listing any special precautions (releasing the glider always from the same elevation etc.)

4. List of all devices used in the experiment

5. Sketch (or a photo) of the experimental setup (if possible)

6. Tables with measured data (including the appropriate physical units)

7. Graphs, sketches, and figures (if applicable)

8. Calculations (if applicable)

9. Answers to questions in the lab manual (if applicable)

10. Conclusions

A sample lab report is posted on Blackboard. The average lab grade contributes 20% to your final course grade. Please notice that all lab grades count.

No make-up labs are permitted due to the fact that the lab equipment is changed every week. You may only attend another identical lab within the same week if you missed your designated time slot.

Lab reports submitted later than the due date will receive reduced maximum credit in the amount of −10% for each day past the deadline.

Labs start in the 3rd week of the semester.

5.3 Homework Assignments

Homework will be assigned on a regular basis - usually weekly, starting with week #3 of the semester. The new homework will become available at 2:00 PM on Monday. You will have one week to complete each homework assignment. Each assignment consists of 6 problems of varying levels of difficulty. Homework contributes 20% to your final course grade.

The assignments will be posted on the website http://www.masteringphysics.com. The Mastering Physics access code comes with the version of the textbook that is required for the course. If you use a different book you must buy access separately. The course ID is MPTSANKOV07534

5.4 Final Exam

The Final Exam consists of problems similar to those discussed in recitation and assigned for homework. The problems will be of varying degree of difficulty.

The exam will be held on Wednesday, December 17, 10:30-12:30 in the lecture room. The final exam contributes 30% to your course grade.
6 Grading

Grade contribution of the different types of assessment tools:

- 3 Exams 30%
- Labs 20%
- Homework 20%
- Final Exam 30%

Letter grade assignment:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
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<tr>
<td>A-</td>
<td>89% ... 86%</td>
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<td>B+</td>
<td>85% ... 80%</td>
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<tr>
<td>B</td>
<td>79% ... 75%</td>
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<tr>
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<td>74% ... 70%</td>
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<td>69% ... 67%</td>
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<tr>
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<td>59% ... 55%</td>
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<tr>
<td>F</td>
<td>45% ... 0%</td>
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Last day to drop the course: Monday, September 8.
Last day to withdraw: Tuesday, October 21.