

General Physics II (PHYS 2022)

Course Syllabus Fall 2014

1 Instructor Information

Name: Dr. Tsvetelin D. Tsankov

Office: Barton Hall BA 222

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Phone: 215-204-3168

Office Hours: Wednesday, Thursday and Friday 2:00-5:00 PM.

2 Time and Places

Lectures: Monday, Wednesday and Friday 8:00-8:50, Barton Hall BA 140

Recitations:

01 Friday 9:00-9:50, Beury Hall BE 413

02 Monday 9:00-9:50, Beury Hall BE 119

03 Monday 10:00-10:50 Barton Hall BB 102

Labs (room BA 102):

041 Thursday 9:00-10:50

042 Thursday 11:00-12:50

043 Thursday 1:00-2:50

044 Monday 9:00-10:50

045 Wednesday 9:00-10:50

3 Course Description

Fundamental physics concepts and principles are introduced and applied to the study of natural phenomena in the fields of Electromagnetism, Optics and Quantum Physics.

4 Textbook

Essential University Physics 2nd edition, Volume 2, with *MasteringPhysics*

Author: Richard Wolfson

Publisher: Pearson

ISBN-13: 9780321711748

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 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 produce complete written solutions. The instructor will provide an equation sheet to be used during the exam.

Each exam contributes 10% towards your final 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
4. List of all devices used in the experiment
5. Picture or drawing 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 the questions in the lab manual
10. Conclusions

The average lab grade contributes 20% to the 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 weekly basis, starting with week #3 of the semester. Each assignment consists of 6 problems. The new assignment will be posted on Monday at 2:00 PM. All homeworks contribute a total of 20% towards the course grade. The homework will be posted at the website <http://www.masteringphysics.com>.

The course ID to for this course is

MPTSANKOV64515

5.4 Final Exam

The Final Exam consists of 5 problems similar to those discussed in recitation and assigned for homework.

The exam will be held on Monday, December 15, 8:00 AM - 10:00 AM in the lecture room. The final exam contributes 30% of your final grade.

5.5 Policy regarding cheating

The penalty for academic dishonesty can vary from receiving a reprimand and a failing grade for a particular assignment, to a failing grade in the course, to suspension or expulsion from the university. The penalty varies with the nature of the offense.

6 Grading

Grade contribution of the different types of assessment tools:

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

Letter grade assignment:

A	100%...90%
A-	89%...86%
B+	85%...80%
B	79%...75%
B-	74%...70%
C+	69%...67%
C	66%...60%
C-	59%...55%
D	54%...46%
F	45%...0%

Last day to drop the course: Monday, September 8.

Last day to withdraw: Tuesday, October 21.