

Physics 0175
Basic Physics for Students of Science and Engineering
Fall Term 2009 (2101)

Lecturer: Prof. Robert P. Devaty
402 Allen Hall
Phone: 412-624-9009
E-Mail: devaty@pitt.edu

Office Hours: to be determined

Recitation

Instructor: Leonard Barsody
519 Allen Hall
Phone: 412-624-9002
E-Mail: lnb4@pitt.edu

Office Hours: to be determined

Resource Room (312 Thaw Hall) Hours:
to be determined

Text: **Fundamentals of Physics** (Custom Edition, based on Eighth Edition) by David Halliday, Robert Resnick and Jearl Walker, Chapters 21-33, 35-36. It is important to do the assigned reading **before** the associated lecture. You don't need to purchase the book if you are satisfied with using the electronic version available on WileyPlus. Note that you will lose access to the electronic version at the end of this course.

Lectures: The lectures are scheduled for 9:00 – 10:50 am on Mondays and Wednesdays in Room 104 Thaw Hall, with one important exception. The **Fall Break** is scheduled for Monday, October 12. Our regular Monday lecture will take place on **Tuesday, October 13** that week. Your regular Tuesday classes will not meet on October 14. The lectures will include class participation via a student response system (clickers) as well as frequent demonstrations of the concepts under discussion. Your responses via the clickers will contribute towards your grade.

Homework: Homework will be assigned using the WileyPLUS system. Typically, homework problems will be due weekly, at 11:00 pm on the chosen day. It is your responsibility to do the homework before the recitation section as preparation for the weekly quizzes. The ability to understand and solve problems is essential for successful performance on the quizzes and exams.

To access WileyPLUS:

- Go to: <http://www.wileyplus.com/>
- Make use of the registration code you received by e-mail, or obtained by purchasing the text book at the Pitt book store.

Recitation: Your recitation section provides the opportunity to ask questions and discuss the material in a smaller group. You will also benefit from the alternative viewpoint of the recitation instructor. The intended format for the recitation is:

- Quick review of recent material (5-10 minutes)
- Questions / discussion / problem solving (25-30 minutes) It is highly desirable that most of the recitation period be used for active learning. For example, the recitation instructor can break up the group into smaller groups to do work sheets or guided problems, or ask students to work out problems on the board.
- Weekly quiz (10-15 minutes)

Your recitation grade will be based on the quizzes and homework.

Courseweb Site: There is a Courseweb site associated with this course. It can be accessed through your <http://my.pitt.edu> account. This site will be used to make important announcements and to make materials available such as lecture slides, exam solutions, announcements, tutorials, etc. My tendency is to place everything under “Course Documents”. As mentioned earlier, homework will be handled on-line using WileyPLUS.

Examinations: There will be two preliminary examinations, given during regular lecture periods. The scheduled dates are October 7 (Wednesday) and November 11 (Wednesday). The comprehensive final examination is scheduled by the University for Friday, December 18, from 12:00 – 1:50 pm.

Grading: Each preliminary examination will be worth 100 points. The final examination will be worth approximately 150 points. The weekly quizzes will be worth 80 points, the WileyPLUS homework questions and problems will contribute 65 points, and lecture participation (clickers) will contribute 35 points. Some (perhaps two) of your lowest quiz scores will be dropped. The total number of points for the course will be 530. Your score out of 530 will be converted into a letter grade.

Extra Credit: The Physics Exploration Center (PEC) provides the opportunity to perform simple hands-on experiments related to the material covered in the lectures. Many of the experiments are similar to the lecture demonstrations. Although you can work individually, work in small groups is recommended. Instructions and deadlines will be provided on the Courseweb site. Print out the sheet and take it with you to the PEC, Room 312 Thaw Hall. To verify that you participated, ask the teaching assistant on duty in the adjacent Resource Room to initial your sheet. Answer all questions on the sheet. Hand the initialed sheet (and additional sheets, if necessary) to your recitation instructor at your next recitation (or hand it to him during his office hours). Each PEC experiment will be worth 3 points. Up to fourteen experiments may be offered. If you do all of them, you can earn up to around 40 points extra credit out of the 530 total points in the course, a significant amount.

Academic Integrity:

Students in this course will be expected to comply with the University of Pittsburgh's Policy on Academic Integrity. Any student suspected of violating this obligation for any reason during the semester will be required to participate in the procedural process, initiated at the instructor level, as outlined in the University Guidelines on Academic Integrity. This may include, but is not limited to, the confiscation of the examination of any individual suspected of violating University Policy. Furthermore, no student may bring any unauthorized materials to an exam, including dictionaries and **programmable calculators**.

Disabilities:

If you have a disability that requires special testing accommodations or other classroom modifications, you are encouraged to notify both the instructor and Disability Resources and Services (DRS) no later than the 2nd week of the term. To contact Disability Resources and Services, call 412-648-7890 to schedule an appointment. The Office is located in 216 William Pitt Union. DRS will verify your disability and determine reasonable accommodations for this course.

Assignment for Week 1:

Reading: Chapter 21: Sections 1-6; Chapter 22: Sections 1-4

Homework: Visit the WileyPLUS site for the homework assignment.