

General Information
Physics 107, Fall 2012

Instructor: Mark D. Semon
334 Carnegie
786-6324 (office)
786-8721 (home)
msemon@bates.edu

Office Hours: Mon: 11 am – noon
Wed: 3:30 pm – 4:30 pm
Fri: 1:30 pm – 2:30 pm
By Arrangement

Lab Manager: Mark Nordberg
303 Carnegie
786-6042 (office)
mnordber@bates.edu

Office Hours: W 2:00 PM – 3:30 PM
Th 2:00 PM – 3:00 PM

PALS Leaders:

The Peer-Assisted Learning in the Sciences (PALS) program sponsors weekly discussion sections on the material covered in class. In these sessions you work in small groups, and with the PALS leaders, to learn how to solve problems especially relevant to the material covered in class. Many of the problems are taken from tests given in previous years. This year's leaders of the PALS program are Erin Curry (ecurry@bates.edu) and Jocelyn Hoye (jhoye@bates.edu). They will announce the time and location of the weekly PALS sessions during the first week of class and will send out a reminder each week.

Required Texts:

- 1) *University Physics, Complete Edition or Vol. I and II separately*, by R. L Reese (Brooks/Cole Pub., 2000);
- 2) *Student Solutions Manual for Reese's University Physics, Volumes I and II*, by R. L. Reese, R. B. S. Brooks and M. Semon (Brooks/Cole Pub., 2000).
- 3) Lab Handouts – available each week as downloads from Lyceum (free!)

Assignments:

Reading and problem assignments are given in the syllabus. Note that it is one thing to follow what you read in the text or hear in class, and quite another to use that material to solve problems. Problem-solving is a *skill developed by practice*, like playing tennis or the piano. Feel free to discuss the assigned problems, labs or class material with

your professor, lab manager or PALS leaders. Expository solutions to many of the odd-numbered problems are in the solution manuals. Solutions to all the assigned problems will be posted on Lyceum.

Examinations and Grading:

There will be three one-hour and fifteen minute exams during the semester and a two-hour final exam. Exam questions will be based upon homework problems, material covered in class, textbook examples, and lab work. Grades normally are computed as follows, unless special circumstances make them unjust in a particular case:

Each hour Exam: $1/8$ (three hour exams = $3/8$)

The Final Exam: $2/8$ (equivalent to two hour exams)

Laboratory: $2/8$ (equivalent to two hour exams)

Homework: $1/8$ (equivalent to one hour exam)

Labs:

You may only attend the lab for which you are registered unless you have made alternative arrangements with Mark Nordberg; any alternative arrangement **must** be made in advance of your assigned lab period. Also, you **must** complete all eleven labs to pass the course; failure to do so will result in failure of the course.

Lab begins on Monday September 10, 2012. Each lab has a pre-lab posted on Lyceum that you must complete before your lab period. Turn in the pre-lab for grading when you come to lab.

Websites:

The Physics 107 Website is <http://www.bates.edu/physics-astronomy/physics-107/>. It contains a description of the course, the syllabus, and this General Information Sheet. It also contains general information related to the lab (an Excel tutorial, a statement of Laboratory Policies, and a tutorial on uncertainty analysis). The website also gives the names of all the people associated with the course and lab.

The Lyceum website is <https://lyceum.bates.edu/login/index.php>. It contains the core information for the course and the lab: the weekly pre-lab and lab handouts, the daily assignments, solutions to the assigned problems, videos and links associated with the course content, the Excel tutorial, and past exams.