

## PY 452: QUANTUM PHYSICS II: GENERAL INFORMATION      Fall 2010

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Office hours: W 11–12:30, F 1-2.

Course website: physics.bu.edu/~redner/452.html

### Required Text:

D. J. Griffiths *Introduction to Quantum Mechanics*, 2nd edition (Pearson Prentice Hall). This is a pedagogical book, and we'll cover most of the material in chapters 5–11.

### Recommended Texts:

There are many helpful references available to complement the text, including:

S. Gasiorowicz, *Quantum Physics* 3<sup>rd</sup> ed. (Wiley). This is a standard text that also presents the major topics that we'll cover this semester.

R. L. Liboff *Introductory Quantum Mechanics*, (Addison Wesley).

R. Eisberg and R. Resnick, *Quantum Physics of Atoms, Molecules, Solids, Nuclei, and Particles*, 2<sup>nd</sup> ed. (Wiley). This book is a bit of an encyclopedia but has lots of useful information.

### Academic Conduct

It is the responsibility of all students to know and understand the provisions of the CAS Academic Conduct Code which is available at: <http://www.bu.edu/cas/students/undergrad-resources/code/>. Academic infractions will be dealt with according to this code. Copying homework solutions from solution manuals is **prohibited**. If you possess such manuals, please erase or destroy them. If you are found to be copying from manuals, you will receive zero points for the homework score for the entire course.

### Problem Sets

There will be weekly assigned problem sets for this course that will be posted on the course website by Friday. You can collaborate with other students in solving the problem sets. However, the write-up that you hand in should represent your own personal effort. Assignments will be due the following Friday by 4:00pm and should be placed in the PY 452 box that is located in the basement of SCI at the bottom of the atrium stairway. Late homework will **not** be accepted. The homework graders are Alan Gabel (agabel@physics.bu.edu) and Dan Volovik (dvolovik@physics.bu.edu). Questions regarding homework grading should be directed to the graders, no more than one week after graded assignments are returned.

### Exams

There will be one in-class mid-term exam in mid October, and a three-hour final exam on Wednesday December 15 at 9am.

### Grading

Your final grade will be computed as follows:

<b>Class Participation</b>	<b>5%</b>
<b>Problem Sets</b>	<b>20%</b>
<b>Midterm</b>	<b>30%</b>
<b>Final Exam</b>	<b>45%</b>