

Physics 3810
Quantum Mechanics, Spring 2012

Instructor: Dr. David Murdock, Bruner 221, [372]-3044 (Office)

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Open office hours!

Meeting Time: MWF, 10:10pm–11:05pm, Br 224.

Textbook: *Introduction to Quantum Mechanics*, David J. Griffiths, 2nd ed.

Prerequisites: Phys 2110-2120, Modern Physics, Calculus III, Math Methods in Physics, E&M1. Everyone is expected to have access to a computer-based calculation and graphics system like Maple. Help will be provided in using such software.

Course requirements: Problem sets to be given out about every 2 weeks, making about 7 in all; probably there will also be a short project involving computation, i.e. programming. Three exams (including the Final).

Grading: 60% of grade based on the exams. 40% from the problems sets. For the sake of completeness, I will quote percentages for which I will *guarantee* the following grades:

A: 80%–100%, B: 65%–80%, C: 50%–65%, D: 30%–50%.

but I will adjust the cutoffs downward if I see fit!

Attendance: Not required but it will help you to show up! I will provide comments and material to supplement the text and help with the homework.

Course Material: As much of Griffiths' book as we can get done this semester. (Probably the first five chapters.)

The Point of All This: To gain some mastery over the challenging ideas and mathematical techniques of quantum physics; to give you the *mad ninja skillz* necessary to compete in today's physicz hood.

Students with a disability requiring accommodations should contact the Office of Disability Services (ODS). An Accommodation Request (AR) should be completed as soon as possible. The ODS is located in the Roaden University Center, Room 112; phone 372-6119.