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Physics Department, Kenyon College  
PHYS 360 Fall 2008  
MWF 14:10 - 15:00  
physics.kenyon.edu

### Introduction to Quantum Mechanics

In this course we develop the basic formalism of quantum mechanics. The topics to be covered include wave mechanics, techniques in solving the time-independent Schrödinger equation for simple potentials, the hydrogen atom, angular momentum, spin, and two-particle systems. Prerequisites: PHYS 245 and MATH 213.

#### *Required Materials:*

Griffiths, J.D., *Introduction to Quantum Mechanics*, (2nd ed.), Prentice Hall, 2005  
bundled with the Physlet Quantum PK & CD, ISBN-13: 9780132259026

#### *Material on Library Reserve:*

Feynman, P.R., et. al., *The Feynman Lectures on Physics*, Volume 1, Addison-Wesley, 1963

#### *Course Assignment and Grading:*

*Homeworks* 25%

Problems will be assigned weekly and are due every Friday at class time (2:10 pm). Show every step of your reasoning or derivation. Illegible work receives no credit. Late HWs will lose 20% if turned in on Saturday by 2:10 pm (one day late) and no credit after that.

*Reading Quizzes* 5%

An occasional reading quiz will be announced with a one-week notice. Multiple choice and true or false questions will follow up on your reading assignments.

*Intra-Semester Exams* 20% each

There will be two in-class, closed book exams on 10/01 (Wednesday) and 11/03 (Monday) starting at 7pm. Each exam will last two hours. One A4 sheet with handwritten notes on both sides is allowed but must be submitted with the exam.

*The Final Exam* 30%

The final Exam is scheduled for 12/18 (Thursday) at 8:30am. It will cover all of the material (comprehensive) and will last three hours.

#### *Scales*

A+	97-100	B+	87-89	C+	77-79	D+	67-69	F	<60
A	93-96	B	83-86	C	73-76	D	63-66		
A-	90-92	B-	80-82	C-	70-72	D-	60-62		

## *Course Policies:*

### *Attendance*

Attendance is required. You may miss one class. Multiple absences will result in a letter grade reduction and/or expulsion from the course. Missing a class on an exam day will result in zero credit for that exam. You are responsible for all information presented in class, even if your absence is excused.

### *Late Assignments*

You may earn extensions by attending the 3pm seminar on Fridays. An approved extension will postpone the deadline to Monday. To apply an extension, you must ask me before the deadline. No other extensions will be given under any circumstance.

### *Disability*

If you need special accommodations because of a disability, you must contact the Coordinator of Disability Services Erin Salva at [salvae@kenyon.edu](mailto:salvae@kenyon.edu) so that such accommodations may be arranged. After you have contacted Ms. Salva, feel free to discuss your concerns with me. All information and documentation of disability is confidential.

### *Academic Honesty*

Collaboration on HW assignments is strongly encouraged as part of learning. This means that you may discuss an approach to a problem with your peers, or me, but must write up the solution in your own format. Do not have another person's HW in front of you when working on your assignment. Copying of any kind will be sanctioned as described in Kenyon's policies on academic honesty. Please find and read these policies in the 2008-09 Course of Study.