

QUANTUM PHYSICS

Physics 8101 Tu & Th Period 4 12:30-1:45pm Room 254 Fall Semester 2017

Physics 8101/8102 is two-semester advanced quantum physics course covering both traditional topics and new developments from a truly modern perspective.

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Course Format

The course consists of two lectures per week. We do not follow any particular text.

Office Hours By appointment
Room 251 Physics Building

Required Course Materials

No textbooks are required for this course.

Homework

Homework problems will be assigned during class. The problems may be quite challenging and you are permitted and encouraged to work together. The midterm and final exams will be partly composed of problems similar to the homework. Homework assignments and due dates will be given in class and there will be no credit for late homework. Some homework assignments require programming in Python.

Exams

There will be one in-class midterm exam and a cumulative final exam. The midterm and final exams will be closed book and closed notes. Calculators are not allowed. The use of laptops, tablets, or other computers is forbidden. Texting or the use of mobile phones during exams is considered cheating. There will no make-up exams given, regardless of whether or not the absence is excused and approved by the university. If a student has an approved absence on the midterm date, their final exam grade will also be used for their midterm grade. Exams are property of the Department of Physics and Astronomy and are not returned.

The in-class midterm exam will be during our regular class period on **Tuesday October 3** in our regular classroom. The final exam will be at 12:00-3:00pm on **Tuesday December 12** in our regular classroom.

Grading

Your final grade will be determined according to:

homework	10%
midterm exam	20%
in-class presentation	20%
final exam	50%

If you do not take the midterm then your final exam will count for 70%.

The grading scale is as follows (points rounded to the nearest integer):

A	89 - 100%
A-	86 - 88%
B+	83 - 85%
B	79 - 82%
B-	76 - 78%
C+	73 - 75%
C	69 - 72%
C-	66 - 68%
D	50- 65%
F	0 - 49%

Academic Honesty

All academic work must meet the standards contained in the document *A Culture of Honesty*, available at www.uga.edu/honesty. Every student is responsible for knowing and understanding this policy. If you have any questions concerning this you are obligated to ask me for clarification. Anyone caught cheating will be reported to the university and will receive an F for the course.

General Information

This syllabus is a general plan for the course and deviations may be necessary. You are responsible for attending every lecture. Each student is responsible for the material discussed in class and the announcements made in class. Absence from class does not relieve one of this responsibility.

You will be responsible for all the assigned material—it may appear in the homework or on an exam—even if it is not discussed in class.