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


**Instructor**
Prof. Michael Geller  
Office: Room 251 Physics Building  
Tel: 706-340-6021  
Email: mgeller@uga.edu

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

**Office Hours**
After class and 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 9** in our regular classroom. The final exam will be at 3:30-6:30pm on **Tuesday December 11** in our regular classroom.
Grading
Your final grade will be determined according to:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
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<tbody>
<tr>
<td>homework</td>
<td>20%</td>
</tr>
<tr>
<td>midterm exam</td>
<td>30%</td>
</tr>
<tr>
<td>final exam</td>
<td>50%</td>
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If for any reason you do not take the midterm, your final exam score will be used in place of your midterm score.

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.