

## Physics 402 Fall 2020 January 26

### Instructors

Chris Lobb, [lobb@umd.edu](mailto:lobb@umd.edu), 301-405-6130 office, 202-601-7789 home (before 9:30 pm)  
Office: Toll Physics Building 1364. The easiest way to get there is through the entrance to the Quantum Materials Center in the courtyard between the math and physics buildings. After entering, turn right, go down the hallway, and then turn right again to go up the stairs.  
Siddharth Taneja, [taneja.sid@gmail.com](mailto:taneja.sid@gmail.com); Yijia Xu, [yijia@umd.edu](mailto:yijia@umd.edu).

### Office Hours

Lobb Tu10-1, F 1-2 (beginning 1/31), Toll 1364; others TBA.

### Course Material

Quantum states as vectors; spin and spectroscopy, multiparticle systems, the periodic table, perturbation theory, band structure, etc.

### Class Schedule

Hours: M 9-9:50 W 9-10:50, PHYS 1201; F 9-9:50 usually ESJ 2212, sometimes PHYS 1201, as announced in class. *Testudo does not list both Friday rooms.*

### Prerequisites

PHYS 401 and all math pre/corequisites for PHYS 401. *A good working knowledge of linear algebra and differential equations is essential.*

### Required Text

Griffiths and Schroeter, *Introduction to Quantum Mechanics* 3rd Edition (ISBN: 978-1-107-18963-8). Earlier editions of this book should not be used.

### Course Website

<http://elms.umd.edu>

### Homework

Assignments will be posted on ELMS approximately weekly, due in one week, hardcopy in the beginning of class. No late homework will be accepted unless you have a valid medical excuse or other serious problems that would allow you to miss an exam, but your lowest homework grade will be dropped.

### Exams

*Quizzes:* There will be announced in-class quizzes, every week or two weeks. They will often be homework problems. There will be no makeup quizzes unless you have a valid medical excuse or other serious problems that would allow you to miss an exam, but your lowest quiz grade will be dropped.

*Hour exams:* March 6 and April 10.

*Final:* The final exam date will be announced

### Grading

Homework:	20%
Quizzes:	25%
Hour exams:	30%
Final exam:	25%

### Tips for Failing

*Don't try to understand things, just memorize.*

*Don't read the book.*

*Don't do the homework, or copy the homework from friends or from the web.*

*Work on physics only on the nights before the exams.*

*Don't ask questions in class or during office hours*

### Academic Dishonesty and Other Student Conduct Policies

<http://www.ugst.umd.edu/courserelatedpolicies.html>