

Physics 402 Fall 2020 March 11

Instructors

Chris Lobb, 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; Yijia Xu, yijia@umd.edu .

Office Hours

Lobb 1, F 1-2 (beginning 1/31), Toll 1364; Xu W 2:30-3:30 Toll 0360; Taneja Th 2-3, Toll 0360.

Course Material

Quantum states as vectors; spin and spectroscopy, multiparticle systems, the periodic table, perturbation theory, band structure, etc. ESJ 0215

Class Schedule

Hours: M 9-9:50 W 9-9:50, PHYS 1201; W 10-10:50 usually ESJ 0215, sometimes PHYS 1201, as announced in class; F 9-9:50 PHYS 1201. *Testudo does not list the Wednesday rooms correctly.*

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~~. *Second exam postponed because of COVID-19.*

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/courselatedpolicies.html>