

Course Syllabus  
Introduction to Quantum Mechanics I 29:140

Instructor: Markus Wohlgenannt  
Offices: 412 VAN I am at this office only during office hours  
126 IATL I am at this office at all other times (Tel: 353-1974)  
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Lecture: 11:30A - 12:20P MWF 301 VAN

Office Hours: right after class upon request and TTh: 11:30A-12:30P 412VAN

Required Texts:  
Introduction to Quantum Mechanics  
David J. Griffiths  
Second Edition

Other Resources recommended for self-study:  
A Modern Approach to Quantum Mechanics  
J.S. Townsend  
Lectures on Quantum Mechanics  
Paul A.M. Dirac  
Dover Publications: ISBN 0-486-41713-1  
Problems in Quantum Mechanics with Solutions  
G.L. Squires  
Cambridge University Press: ISBN 0-521-37850-

Course Description: Topics covered: superposition principle, Stern-Gerlach experiment, linear operators, measurement theory, time evolution, angular momentum, wave mechanics in one dimension, one-dimensional harmonic oscillator, two-body problems with central forces, the hydrogen atom. Our goal will be to cover “Part I” of Griffiths. Prerequisites: 29:030 or 29:083, 29:115, 22M:027 and 028 or 22M:047 and 048.

Exams: There are two in-class “midterm” exams and a comprehensive final exam. All exams are open book. Calculators are allowed, but may not be used to store any information in them.

Midterm Exam Schedule: September 28, November 2

Homeworks will be assigned every week on Monday in class (except for the first week of class) and is due the following Monday, class time. To be successful in this course it is essential that you do the homework. Doing problems is the most effective (in my opinion the only) way to learn the material.

Course Grade: The +/- grading system will be used.

For those taking the lab:

Mid term exams	20% each
Homework	35%
Final exam	25%

Grade breakdown: >97% A+, >93% A, >90% A-, >87% B+, >83% B, ..., <60% F.

Expectations: Please note that students should expect to spend a minimum of 2 hours/week of preparation time outside of class (reading, studying, working problems), for each registered semester hour. This is a rough guideline suggested by the College; the amount of time you need to spend may be quite different.

Students With Disabilities: Anyone who has a disability that may require some modification of seating, testing, or other class requirements should contact me so that we can make suitable arrangements. Contact me after class or during my office hours. For further details please consult the College of Liberal Arts and Sciences Student Academic Handbook (CLAS Handbook), or contact the Office of Student Disabilities Services at 335-1462.

Student Complaints: Any complaints about the Instructor should first be taken to the Instructor. If the complaint is not resolved to the satisfaction of the student, he or she should contact the Department Chair (Professor Mary Hall Reno). They can be contacted through the Secretary in the Physics Department General Office, VAN 203. Additional details are described in the CLAS Handbook or in the current Schedule of Courses.

University Policy on Plagiarism and Cheating: Plagiarism and/or cheating will not be tolerated. The Instructor will notify the student in writing soon after any incident. The Instructor will then decide, in consultation with the DEO whether to reduce the grade on the assignment/exam, the grade for the course, or give an F for the course. More details on the University Policy can be found in the CLAS Handbook.

Student Rights and Responsibilities: The following is excerpted from the CLAS Handbook. "All students in the college have specific rights and responsibilities. You have the right to adjudication of any complaints you have about the classroom activities or instructor actions. Information on these procedures is available in the Schedule of Courses and on-line in the College's Student Academic Handbook. You also have the right to expect a classroom environment that enables you to learn, including modifications if you have a disability." "Your responsibilities to this class and to your education as a whole include attendance and participation. You are also expected to be honest and honorable in your fulfillment of assignments and in test-taking situations. You have a responsibility to the rest of the class, and to the instructor, to help create a classroom environment where all may learn. At the most basic level, this means that you will respect the other members of the class and the instructor, and treat them with the courtesy you hope to receive in turn."