Physics 31: Introduction to Quantum Mechanics

Instructor  A. P. Hickman  
LL 404  
Office hours: anytime except during the two hours before class  
610-758-3917  
aph2@lehigh.edu

This textbook is out of print. A custom printed edition that includes the chapters used in Physics 31 will be available at the bookstore.

Course content  Chapters 2–7 of the textbook, at least:  
history, key experiments, wave-particle duality, de Broglie waves,  
Heisenberg uncertainty principle, Bohr model of the atom,  
applications of quantum mechanics:  
particle in a box, finite square well,  
harmonic oscillator, hydrogen atom, tunneling,  
quantitative discussion of atomic and molecular structure

Grading  
Homework  
due Thursdays at beginning of class,  
graded for effort, ok to work together,  
no credit if turned in late  
1st exam (late February or early March)  25%  
2nd exam (April)  25%  
Final  35%

Web page  http://www.lehigh.edu/~inphys31

Homework information:  The homework will be checked for effort, but not formally graded. Solutions will be available after the problems are turned in. Every other Tuesday there will be a short quiz consisting of one homework question taken from the previous two weeks’ assignments.

Make up exam policy:  There will be no make up exams. If you miss an exam for a legitimate reason, a portion of the final exam covering the appropriate material will designated as your make up exam.

Disability:  If you have a disability for which you are or may be requesting accomodation, please contact the course instructor and the Office of Academic Support Services, University Center Room 212 (610-758-4152) early in the semester. It is the responsibility of students with disabilities to identify themselves to the appropriate university contact person to provide the required documentation in order to receive accommodations.