

## 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										
Textbook	<i>Concepts of Modern Physics</i> (6 <sup>th</sup> edition, 2003, by A. Beiser) 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	<table><tr><td>Homework</td><td>15 %</td></tr><tr><td>due Thursdays at beginning of class, graded for effort, ok to work together, <i>no credit if turned in late</i></td><td></td></tr><tr><td>1<sup>st</sup> exam (late February or early March)</td><td>25%</td></tr><tr><td>2<sup>nd</sup> exam (April)</td><td>25%</td></tr><tr><td>Final</td><td>35%</td></tr></table>	Homework	15 %	due Thursdays at beginning of class, graded for effort, ok to work together, <i>no credit if turned in late</i>		1 <sup>st</sup> exam (late February or early March)	25%	2 <sup>nd</sup> exam (April)	25%	Final	35%
Homework	15 %										
due Thursdays at beginning of class, graded for effort, ok to work together, <i>no credit if turned in late</i>											
1 <sup>st</sup> exam (late February or early March)	25%										
2 <sup>nd</sup> exam (April)	25%										
Final	35%										
Web page	<a href="http://www.lehigh.edu/~inphys31">http://www.lehigh.edu/~inphys31</a>										

**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 be designated as your make up exam.

**Disability:** If you have a disability for which you are or may be requesting accommodation, 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.