

Grading Scale:

The grading scale I will use is:

%	Grade
90 - 100	A
80 - 89	B
70 - 79	C
60 - 69	D
0 - 59	F

I reserve the right to lower the cut-off points (i.e. increase the letter grades for percentages), but I will not raise the cut-offs (i.e. make it harder to get a good grade).

Honor Code:

In the process of conducting scientific work it is essential that an attitude of trust and honesty is common to all participants. In the Physics Department we have an honor code. We expect you to behave honorably in all aspects of your life. This means that we trust you. For example, you are free to leave the room during test, even without asking me. Because we take this trust seriously, a breach of the trust has severe consequences. Cheating in any form is grounds for dismissal from the course with a grade of F. When working on homework I expect you to communicate with each other but all tests are to be conducted entirely on your own.

Calendar: (subject to change)

<u>Date</u>	<u>Topic</u>	<u>Notes</u>
01.31	Introduction	Ch 3
02.02	Photoelectric Effect	Ch 3
02.04	Compton Effect and X-Rays	Ch 3
02.07	Atomic Spectra	Ch 4
02.09	Bohr's Atom/Frank-Hertz Expt.	Ch 4
02.11	De Broglie's Wavelength/Davisson-Germer Expt.	Ch 5
02.14	Wave-Particle Duality/Uncertainty Principle	Ch 5
02.16	Wave Groups and Dispersion	Ch 5
02.18	Exam 1	Ch 3-5
02.21	Born Interpretation/Wave-function for Free Particle	Ch 6
02.23	Plausibility of Schroedinger Equation	Ch 6
02.25	Wave-functions/Particle in a Box	Ch 6
02.28	Finite Square Well/Quantum Oscillator	Ch 6
03.02	Expectation Values and Observables	Ch 6
03.04	Square Barrier	Ch 7
03.07	Applications of Square Barrier	Ch 7
03.09	Particle in a 3-D Box	Ch 8
03.11	Central Forces and Angular Momentum	Ch 8
03.14	Space Quantization	Ch 8
03.16	Atomic Hydrogen and Hydrogen-like Ions	Ch 8
03.18	Exam 2	Ch 6-8
03.21	SPRING BREAK STARTS!	
03.28	Stern-Gerlach Expt./Electron Spin	Ch 9
03.30	Spin-Orbit Interaction	Ch 9
04.01	Exchange Symmetry/Exclusion Principle	Ch 9
04.04	Periodic Table/X-Rays and Mosley	Ch 9
04.06	Classical Statistics	Ch 10
04.08	Quantum Statistics	Ch 10
04.11	Applications of BE Statistics	Ch 10
04.13	Applications of FD Statistics	Ch 10
04.15	Ionic and Covalent Bonds	Ch 11
04.18	Molecular and Rotational Spectra	Ch 11
04.20	Vibrational and Electronic Spectra	Ch 11
04.22	Structure of Solids	Ch 12
04.25	Exam 3	Ch 9-11
04.27	Classical Theory of Conduction/Free e^- Model	Ch 12
04.29	Quantum Theory of Conduction	Ch 12
05.02	Band Theory of Solids	Ch 12
05.04	Semiconductor Devices	Ch 12
05.06	Superconductivity	Ch 12
05.09	Lasers	Ch 12
05.11	Review/Catch-up Day	
05.13	Review/Catch-up Day	

The readings under the notes section are the readings related to the concepts that we will cover that day. It is usually helpful to examine the readings BEFORE we cover the topic in class.