Class Schedule:	Lecture	Reading
Mon, Jan. 5	#1	5.3 Solids Intro 5.3.1 The Free Electron Gas
Wed, Jan. 7	#2	5.3.2 Band Structure
Fri. Jan. 9	#3	5.4 Quantum Statistical Mechanics Intro 5.4.1 An Example 5.4.2 The General Case
Mon. Jan. 12	#4	5.4.3 Most Probable Configuration 5.4.4 Physical Significance α & β
Wed. Jan. 14	#5	5.4.5 The Blackbody Spectrum
Fri. Jan. 16	#6	6.1 Nondegenerate Perturbation Theory
Wed. Jan. 21	#7	6.2 Degenerate Perturbation Theory Intro 6.2.1Two-Fold Degeneracy
Fri. Jan. 23	#8	6.2.2 Higher-Order Degeneracy
Mon. Jan. 26	#9	6.3 The Fine Structure of Hydrogen Intro 6.3.1Relativistic Correction
Wed. Jan. 28	#10	6.3.2 Spin-Orbit Coupling
Fri. Jan. 30	#11	6.4 The Zeeman Effect
Mon, Feb. 2	#12	6.5 Hyperfine Splitting
Wed, Feb. 4	#13	Review
Fri, Feb. 6	No Class	**Exam I Wed.-Sat. Testing Center**
Mon, Feb. 9	#14	7.1 The Variational Principle Theory
Wed, Feb. 11	#15	7.2 The Ground State of Helium
Fri, Feb. 13	#16	8. The WKB Approximation Intro 8.1 The "Classical" Region
Tues. Feb. 17	#17	8.2 Tunneling
Wed. Feb. 18	#18	Special Topics – Atomic Units; Numerical Techniques
Fri. Feb. 20	#19	Special Topics – Numerical Techniques
Mon. Feb. 23	#20	9. Intro 9.1 Two-Level Systems Intro 9.1.1 The Perturbed System
Wed. Feb. 25	#21	9.1.2 Time-Dependent Perturbation Th 9.1.3 Sinusoidal Perturbations
Fri. Feb. 27	No Class	Instructor University Assignment
Mon. Mar. 2	#22	Problem 9.7 – A topic in itself
Wed. Mar. 4	#23	9.2 Emission and Absorption
Fri. Mar. 6	#24	9.3.1 Einstein's A and B Coefficients
Mon. Mar. 9	#25	9.3.2 Lifetime of an Excited State
Wed. Mar. 11	#26	9.3.3 Selection Rules
Fri. Mar. 13	#27	11.1 Introduction to Scattering
Mon. Mar. 16	#28	11.4.1 Integral Form of the Schrödinger Equation
Wed. Mar. 18	#29	11.4.2 The First Born Approximation 11.4.3 The Born Series
Fri. Mar. 20	#30	Review
Mon. Mar. 23	No Class	**Exam II Mon.-Wed. Testing Center**
Wed. Mar. 25	#31	Special Topics – The Klein-Gordon Equation
Fri. Mar. 27	#32	Special Topics – Klein-Gordon Wave Packet
Mon. Mar. 30	#33	Special Topics – Cannonical Momentum
Wed. Apr. 1	#34	Special Topics – Volkov States
Fri. Apr. 3	#35	Special Topics – Wave Packet in a Relativisistic Laser Field
Mon. Apr. 6	#36	Special Topics – Compton Scattering
Wed. Apr. 8	#37	Special Topics – The Dirac Equation
Fri. Apr. 10	#38	Special Topics – The Dirac Equation
Mon. Apr. 13	#39	Review
Sat. Apr. 18		**Final Exam:** In Classroom 2:30PM-5:30PM