

TENTATIVE SCHEDULE FOR PHYSICS 404, Spring 2010					
Date	Mtg.#	Reading Assignment	Topic	HW Due	Exams
Week 1		Kittel-Kroemer /			
1/26	1	1	From micro to macro physics		
1/28	2	1	States and multiplicity. Configurations and probability of occurrence		
Week 2					
2/2	3	2	Entropy and Temperature		
2/4	4	2	Laws of Thermodynamics	1	
Week 3					
2/9	5	3	Boltzmann Distribution		
2/11	6	3	Helmholtz Free Energy	2	
Week 4					
2/16	7	3	Ideal Gas		
2/18	8	4	Thermal Radiation	3	
Week 5					
2/23	9	4	Planck Distribution, Phonons		
2/25	10	4	Chemical Potential		
Week 6					
3/2	11	5	Gibbs Distribution		
3/4	12		Chapters 1-4 (roughly)		EXAM #1
Week 7					
3/9	13	5	Grand Canonical Ensemble, Gibbs Free Energy		
3/11	14	6	Quantum Statistics	4	
SPRING BREAK 15-19 MARCH					
Week 8					
3/23	15	6	Classical Limits		
3/25	16	6		5	
Week 9					
3/30	17	7	Quantum Ideal Gas		
4/1	18	7	Bose Einstein, Fermi-Dirac Distributions	6	
Week 10					
4/6	19	8	Heat Engines		
4/8	20		Chapters 4-6 (roughly)		EXAM #2
Week 11					
4/13	21	8	Thermodynamics		
4/15	22	8	Heat and Work	7	
Week 12					
4/20	23	9	Gibbs Free Energy		
4/22	24	9	Chemical Reactions	8	
Week 13					
4/27	25	10	Phase Transitions		
4/29	26	10	Landau Theory	9	
Week 14					
5/4	27	14	Kinetic Theory		
5/6	28	14	Kinetic Theory	10	
Week 15					
5/11	29		Review		
	5/18	30	FINAL EXAM [1:30-3:30 pm]		FINAL EXAM