

Thermal Physics, Spring 2020, Revised Schedule

	Monday	Wednesday	Friday
January	6 Thermal Equilibrium Section 1.1	8 Ideal Gas, Equipartition 1.2, 1.3	10 Heat and Work 1.4, 1.5
	13 PS1 Heat Capacities 1.6	15 Enthalpy finish 1.6	17 Microstates and Multiplicities 2.1, 2.2
	20 M. L. King Day	22 PS2 The Second Law 2.3	24 Large Systems 2.4
	27 Ideal Gas 2.5	29 Entropy 2.6	31 PS3 Temperature 3.1
February	3 Review Session and Test (chapters 1 and 2)	5 Entropy and Heat 3.2	7 Paramagnetism 3.3
	10 PS4 Pressure 3.4	12 Chemical Potential 3.5, 3.6	14 Heat Engines 4.1
	17 Presidents Day	19 Refrigerators 4.2, browse 4.3-4.4	21 PS5 Free Energy 5.1
	24 More about Free Energy 5.2	26 Phase Transformations 5.3	28 Clausius-Clapeyron Relation 5.3
March	2	4 Spring Break	6
	9 PS6 The Boltzmann Factor 6.1	11 Review Session and Test (chapters 3, 4, 5)	13 Emergency shutdown
	16 Emergency shutdown	18 Average Values 6.2	20 The Equipartition Theorem 6.3
	23 PS7 The Maxwell Speed Distribution 6.4	25 More about Partition Functions 6.5, 6.6	27 Ideal Gas Revisited 6.7
April	30 The Gibbs Factor 7.1	1 PS8 Bosons and Fermions 7.2	3 Degenerate Fermi Gases 7.3, to page 277
	6 Photon Gas 7.4	8 Blackbody Radiation finish 7.4	10 PS9 Debye Theory of Solids 7.5
	13 Review Session	15 Test (chapters 6, 7)	17 Work on projects
	20 Work on projects	22 Final Projects Due	24