

Syllabus		Phys 335	Fall 2026
Aug.	24	Welcome and Introduction; Thermal Equilibrium	Ch. 1.1
	26	Ideal Gas; Equipartition	Ch. 1.2–3
	28	Heat and Work	Ch. 1:4–5
Sept.	31	Heat Capacity	Ch. 1:6
	2	Enthalpy; HW #1	Ch. 1:6
	4	Microstates	Ch. 2.1–2
	7	Interacting Systems, 2nd Law	Ch. 2.3
	9	Large Systems ; HW #2	Ch. 2.4
	11	Ideal Gas	Ch. 2.5
	14	Entropy	Ch. 2.6
	16	Temperature; HW #3	Ch. 3.1
	18	Entropy and Heat	Ch. 3.2
	21	Paramagnetism	Ch. 3.3
	23	Equilibrium and Pressure; HW #4	Ch. 3.4
Oct.	25	Chemical Potential	Ch. 3.5–6
	28	<i>Problems and Review</i>	Chs. 1–3
	30	Hour Test I	Chs. 1–3
	2	Heat Engines	Ch. 4.1
	5	Refrigerators	Ch. 4.2
	7	Free Energy; HW #5	Ch. 5.1
	9	Free Energy and Equilibrium	Ch. 5.2
	12	<i>Fall Break</i>	
	14	Phase Transformations	Ch. 5.3
	16	Phase Transformations of Mixtures; HW #6	Ch. 5.4
	19	Boltzmann Factor	Ch. 6.1
	21	Boltzmann Factor; HW #7	Ch. 6.1
	23	Boltzmann Factor	Ch. 6.1
	26	Average Values	Ch. 6.2
	28	Equipartition; HW #8	Ch. 6.3
Nov.	30	Applications	Ch. 6.3
	2	Maxwell Speed Distribution; Free Energy	Ch. 6.4–5
	4	Composite Systems; Ideal Gas; HW #9	Ch. 6.6–7
	6	Gibbs Factor	Ch. 7.1
	9	Hour Test II	Chs. 4–6
	11	Bosons and Fermions	Ch. 7.2
	13	Degenerate Fermi Gas; Blackbody Radiation	Ch. 7.3–4
	16	Ising Model	Ch. 8.2
	18	Ising Model (<i>continued</i>)	
	20	<i>Presentations; HW #10</i>	
Dec.	23	<i>Presentations</i>	
	25–27	<i>Thanksgiving</i>	
	30	<i>Presentations</i>	
	2	<i>Presentations</i>	
	4	Critical Exponents	
<i>Final Exam (cumulative)</i>			

Revised August 5, 2026