

Syllabus		Phys 133	Fall 2026
Aug.	24	Introduction; Coulomb's Law	Ch. 21:1–3
	26	Electric Forces and Fields	Ch. 21:3–4
	28	Electric Field Calculations	Ch. 21:5–6
Sept.	31	Electric Fields of Charge Distributions; Dipoles	Ch. 21:5, 7
	2	Electric Flux; HW #1	Ch. 22:1–2
	4	Gauss' Law	Ch. 22:3
	7	Application of Gauss' Law	Ch. 22:4–5
	9	Electrostatic Potential Energy; HW #2	Ch. 23:1–2
	11	Electric Potential	Ch. 23:3
	14	Equipotential Surfaces	Ch. 23:4–5
	16	Capacitance; HW #3	Ch. 24:1,3–5
	18	Capacitors in Series and Parallel	Ch. 24:2
	21	Electric Field Energy	Ch. 24:3–5
	23	Exam I	Chs. 21–24
	25	Current and Resistance	Ch. 25:1–3, 26:1
	28	Ohm's Law and EMF	Ch. 25:3–4
	30	Energy and Power in Circuits; HW #4	Ch. 25:5–6
	2	Kirchhoff's Rules	Ch. 26:1–2
Oct.	5	RC Circuits	Ch. 26:4
	7	Magnetic Fields; HW #5	Ch. 27:1–3
	9	Magnetic Forces on Charges	Ch. 27:4–5
	12	<i>Fall Break</i>	
	14	Magnetic Forces on Currents	Ch. 27:6–8
	16	Biot-Savart Law; HW #6	Ch. 28:1–4
	19	Ampère's Law	Ch. 28:5–6
	21	Applications of Ampère's Law; HW #7	Ch. 28:7
	23	Exam II	Chs. 25–28
	26	Faraday's Law and Lenz's Law	Ch. 29:1–4
	28	Induction and Maxwell's Equations	Ch. 29:5–7
	30	Induction and Magnetic Field Energy	Ch. 30:1–3
	2	Mechanical Waves Review	Ch. 15:1–5
	4	Superposition; HW #8	Ch. 15:6–8
	6	Sound Waves	Ch. 16:1–4
Nov.	9	Resonance; Interference	Ch. 16:5–7
	11	Electromagnetic Waves; HW #9	Ch. 32:1–3
	13	Energy in Electromagnetic Waves	Ch. 32:4–5
	16	Reflection and Refraction	Ch. 33:1–3
	18	Polarization and Scattering; HW #10	Ch. 33:4–7
	20	Exam III	Chs. 15, 16, 29, 30, 32, 33
	23	Interference	Ch. 35:1–3
	25–27	<i>Thanksgiving</i>	
	30	Diffraction and Diffraction Gratings	Ch. 36:1–5
	2	Thin Film Interference;	Ch. 35:4
	4	<i>Final review; HW #11</i>	
		<i>Final Exam</i> (cumulative)	