

**PHYS 2135 Syllabus
Fall 2022**

August				2021
Monday Lecture	Tuesday Recitation/Exam	Wednesday Lecture	Thursday Recitation	Throughout Week Lab (Sections, Location)
22 L1 5:1-4 Electric Charge, Coulomb's Law, Electric Field, Motion of a Charge in an Electric Field	23 HW1	24 L2 5:5 Electric Field of a Continuous Charge Distribution	25 HW2	22-26 No Lab
29 L3 5:6-7 & 6:1-3 Electric Field Lines, Electric Dipoles, Electric Flux, Gauss' Law	30 HW3	31 L4 6:3-4 Gauss' Law, Conductors in Electric Fields		(See following page.)

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September				2021
Monday Lecture	Tuesday Recitation/Exam	Wednesday Lecture	Thursday Recitation	Throughout Week Lab
			1 HW4	29-2 Odd Sections Coulomb's Law
5 Labor Day	6 HW4b	7 L5 7:1-3 Electric Potential, Electric Potential Energy	8 HW5	5-9 No Lab
12 L6 7:3-5 Electric Potentials of Charge Distributions, Equipotentials, Potential Gradient	13 HW6	14 L7 8:1-2 Capacitance, Capacitors in Series and Parallel	15 HW7	12-16 Even Sections Coulomb's Law
19 Exam I Review	20 HW E1 Review Exam I 5:00 – 6:00 pm (L1-L7)	21 L8 8:3-5 Energy Stored in Capacitors and Electric Fields, Dielectrics	22 HW8	19-23 Odd Sections Capacitors
26 L9 9:1-4 Electric Current, Current Density, Resistance	27 HW9 (Career Fair)	28 L10 9:5 Emf, Electric Power	29 HW10	26-30 Even Sections Capacitors

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October				2021
Monday Lecture	Tuesday Recitation/Exam	Wednesday Lecture	Thursday Recitation	Throughout Week Lab
3 L11 10:1-3 Resistors in Series and Parallel, Kirchhoff's Rules	4 HW11	5 LSP1	6 Fall Break	3-7 No Lab
10 L12 10:4-6 Electrical Instruments, RC Circuits	11 HW12	12 L13 11:1-3 Magnetic Fields and Flux, Motion of Charged Particle, Gauss' Law for Magnetism	13 HW13	10-14 Odd Sections RC Circuits
17 L14 11:4-7 Magnetic Forces on Currents, Magnetic Torque	18 HW14	19 L15 12:1-3 Magnetic Field of a Current, Biot-Savart Law	20 HW15	17-21 Even Sections RC Circuits
24 Exam II Review	25 HW E2 Review Exam II 5:00 – 6:00 pm (L8-L14)	26 L16 12:3-6 Magnetic Field of a Current Loop, Ampere's law	27 HW16	24-28 Odd Sections Current Balance
31 L17 13:1-5 Faraday's Law, Induction, Lenz's Law, Generators, Motional emf				(See following page.)

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November				2021
Monday Lecture	Tuesday Recitation/Exam	Wednesday Lecture	Thursday Recitation	Throughout Week Lab
	1 HW17	2 L18 13:6-7 Induced Electric Fields, Maxwell's Law, Motors, Transformers	3 HW18	31-4 Even Sections Current Balance
7 L19 16:1-5 Electromagnetic Waves	8 HW19	9 L20 1:1-5 Light, Reflection, Refraction and Dispersion	10 HW20	7-11 Odd Sections Generator
14 Exam III Review	15 HW E3 Review Exam III 5:00 – 6:00 pm (L15-L20)	16 L21 2:1-2 Concave and Convex Mirrors	17 HW21	14-18 Even Sections Generator
21 Thanksgiving Break	22 Thanksgiving Break	23 Thanksgiving Break	24 Thanksgiving Break	21-25 Thanksgiving Break
28 L22 2:3-8 Thin Lenses, Optical Instruments	29 HW22	30 L23a,b 3:1-2 4:1-3 Double Slit Interference, Single Slit Interference		(See following page.)

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December				2021
Monday Lecture	Tuesday Recitation/Exam	Wednesday Lecture	Thursday Recitation	Throughout Week Lab
			1 HW23ab	28-2 Odd Sections Dispersion
5 L23c,d 3:4 4:4 Diffraction Gratings, Thin Film Interference	6 HW23cd	7 End Material Review	8 HW EM Review HW Final Review	5-9 Even Sections Dispersion
12	13 End Material Test Final Exam 3:00 – 5:00 pm	14	15	12-16 No Lab