

Tentative Schedule for Physics 390: Fall 2011: will be revised

Date	Events	Topics (presented on dates shown)	who presents what
Aug 24 - Aug 26	Organizational meeting	Assignment of topics for next classes	
Aug 29 - Sept 02	5 minute presentations	Mechanics I	
		preliminary topic submission	all
		kinematics	
		conservation of energy	
		conservation of momentum	
		uniform circular motion	
		Newton's laws	
Sept 05 - Sept 09	5 minute presentations	Mechanics II	
		vibrations	
		gravity	
		non-uniform circular motion	
		simple harmonic oscillation	
		rigid body rotational motion	
Sept 12 - Sept 16	5 minute presentations	Waves	
		Revised prelim topic submission	all
		traveling pulses	
		standing waves	
		transverse waves on strings	
		sound	
		TEM waves	
Sept 19-Sept 23	5 minute presentations	Thermodynamics	
		Formal Topics Submission for approval	all
		linear expansion	
		ideal gas	
		internal energy	
		entropy	
		adiabatic ideal gas	
Sept 27 – Sept 30	5 minute presentations	Electrostatics	
		Formal Progress Update 01	all

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		Coulomb's law	
		Electric dipole	
		Gauss's Law	
		Electrostatic Potential	
		Capacitance and energy density	
Oct 03 - Oct 07	5 minute presentations	Magnetism	
		Formal Progress Update 02	all
		Ampere's law	
		Law of Biot-Savert	
		Solenoid	
		magnetization	
		Inductance and energy density	
Oct 10 - Oct 14	5 minute presentations	Optics	
Fall Break conflict possibility		Formal Progress Update 03	all
		Snell's Law	
		images formed with thin lenses	
		images formed with spherical mirrors	
		dispersion and prisms	
		polarization and Brewster's angle	
Oct 17 - Oct 21	5 minute presentations	Misc. Physics Topics I	
		(Student Selected)	
		Formal Progress Update 04	all
Oct 24- Oct 28	5 minute presentations	Misc. Physics Topics II	
		(Student Selected)	
		Formal Paper Rough Draft Due	all
Oct 31 - Nov 04	5 minute presentations	Misc. Physics Topics III	
		(Student Selected)	
		Formal Topic Papers Due	all
Nov 07 - Nov 11	20 minute presentations		
Nov 14 - Nov 18	20 minute presentations		
Nov 21 - Nov 25	20 minute	Thanksgiving conflict possibility	

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	presentations		
Nov 28 - Dec 02	20 minute presentations		
Dec 05 – Dec 09	20 minute presentations	Also wrap-up as needed	