

			Topic	Video 1	Video 2	Video 3
Monday	August	19	No class			
Wednesday	August	21	<b>CURrENT</b>			
Friday	August	23	Inductance	Faraday/Lenz	Self inductance	
Monday	August	26	LC circuits	Energy in inductors	LC circuits	
Wednesday	August	28	HW 1 due Maxwell eqns	Maxwell's equations	Monopoles	Div/stokes
Friday	August	30	<b>Recitation</b>			
Monday	September	2	Helmholtz formulation	Helmoltz	Helmholtz E&M	Potentials
Wednesday	September	4	HW 2 due Gauges	Gauges	Gauge transforms	Aharonov Bohm
Friday	September	6	<b>Peer lecture - text</b>			
Monday	September	9	Maxwell in matter	Maxwell in matter	Dynamic BCs	
Wednesday	September	11	Energy, p, S	Energy, p, S		
Friday	September	13	Plane waves	Plane waves		
Monday	September	16	Spherical waves	Spherical waves	Complex math	
Wednesday	September	18	HW due <b>Recitation/review</b>			
Friday	September	20	<b>Exam 1</b>			
Monday	September	23	Reflection/refraction	Reflection/refraction		
Wednesday	September	25	Evanescence/conductors	Evanescence	Conductors	
Friday	September	27	R, T coefficients	R, T coeffs		
Monday	September	30	Multiple interfaces	Multiple interfaces		
Wednesday	October	2	HW due Non normal incidence	Non normal incidence		
Friday	October	4	<b>Recitation</b>			
Monday	October	7	Dispersion	Dispersion & res	Group and phase velocity	
Wednesday	October	9	Waveguide intro	Waveguide intro	Parallel plate TE	
Friday	October	11	<b>Peer lecture - freestyle</b>			
Monday	October	14	Fall break			
Wednesday	October	16	TM modes	Power, wavespeed	TM modes	
Friday	October	18	HW due Other waveguides	Rectangular	Coax	
Monday	October	21	Retarded potentials	Green's functions	Retarded potentials	
Wednesday	October	23	<b>Recitation/Review</b>			
Friday	October	25	<b>Exam 2</b>			
Monday	October	28	Retarded potentials 2	Sheet current	Asymptotic potentials	
Wednesday	October	30	HW due Radiation	Dipole radiation	Monopole radiation	Classical atom collapse
Friday	November	1	Scattering	Scattering		
Monday	November	4	Lienard-Wiechert	Lienard-Wiechert	Shades of relativity	
Wednesday	November	6	HW due <b>CURrENT</b>			
Friday	November	8	<b>Peer lecture - text</b>			
Monday	November	11	Intro to relativity			
Wednesday	November	13	Covariance and invariance			
Friday	November	15	Covariance and invariance			
Monday	November	18	Index notation			
Wednesday	November	20	HW due Minkowski formulation	Covariance supplement		

Friday	Novembe	22		Fields and potentials	Matrix operations
Monday	Novembe	25		Field transforms	
Wednesday	Novembe	27	Thanksgiving		
Friday	Novembe	29	Thansksgiving		
Monday	Decembe	2		Transforms for problem solving	
Wednesday	Decembe	4	HW due	EM Stress tensor	
Friday	Decembe	6	Dead day		