

Week	Date	Topic	Text Reading
1	Apr 1	Review of Maxwell's Equations	Chp 7
	Apr 3	Charge and Energy	8.1
2	Apr 8	Momentum	8.2
	Apr 10	Waves in 1D	9.1
3	Apr 15	Electromagnetic waves in vacuum	9.2
	Apr 17	Electromagnetic waves in matter	9.3
4	Apr 22	Absorption and Dispersion	9.4.1, 9.4.2
	Apr 24	Electron Theory of Materials	9.4.3
5	Apr 29	Guided Waves	9.5.1, 9.5.2
	May 1	Coaxial lines and resonant cavities	9.5.3
6	May 6	<b>Midterm Exam</b>	
	May 8	Potential formulation and gauges	10.1.1, 10.1.2
7	May 13	Lorentz gauge. Canonical momentum	10.1.3, 10.1.4
	May 15	Retarded and advanced potentials	10.2.1, 10.2.2
8	May 20	Leinard-Weichert potentials	10.3.1, 10.3.2
	May 22	Radiation. Electric dipole radiation	11.1.1, 11.1.2
9	May 27	Magnetic dipole radiation	11.1.3, 11.1.4
	May 29	Power radiated by a point charge	11.2.1
10	May 28, 30	No class (Work on paper)	
11	June 3	In class presentation I	
	June 5	In class presentation II	

**Final Paper Due June 7, 5PM**