PHY 1054 Topic	Intro Physics II Sub-Topics	M=Mandatory, O=Optional, R=Review, V=Overview M,O,R,V
Electricity and Magnetism	Coulomb's Law	M
	Magnetic forces and fields	M
	Electric forces and fields	M
	Electromagnetic induction	M
	Electric potential	M
	Lenz's Law	M
	Faraday's Law	M
	Static electricity	M
	Electric Power	M
	Circuits - theory, DC circuits, components	M
	Gauss's Law	M
Optics	Physical optics - diffraction, interference, and polarization	M
	Electromagnetic waves	M
	Optical instruments	M
	Geometric optics - reflection, refraction, lens and mirrors, shadows, ray diagrams.	M
Oscillations and Wave Motion	Sound	M(53/54)
	Simple harmonic motion	M(53/54)
	Superposition principle	M(53/54)
	Standing waves and resonance	M(53/54)
	Doppler effect	M(53/54)
Thermal	Equations of state	M(53/54)
	Heat transport	M(53/54)
	Specific heat, latent heat	M(53/54)
	Thermal expansion	M(53/54)
	Kinetic theory of gas	M(53/54)
	3 laws of thermodynamics	M(53/54)
Atomic and Nuclear	Fusion	V
	Fission	V
	Atomic structure	M
	Radioactive decay	M
Relativity	Time dialation	V
	Length contraction	V
	Lorentz transformation	V