

Physics 2710 Schedule – Fall 2013 – 11:30am MWF

	Monday	Wednesday	Friday	Readings
Aug. 26-30 <i>Week 1</i>	Welcome & Principle of Relativity	The Nature of Time	Metric Equation	Moore Ch 1-4
Sept. 2-6 <i>Week 2</i>	No Class	Proper Time [PS1 due]	Coordinate Transformations	Moore Ch 5-6
Sept. 9-13 <i>Week 3</i>	Length Contraction	Cosmic Speed Limit [PS2 due]	Four-Momentum	Moore Ch 7-9
Sept. 16-20 <i>Week 4</i>	Four-Momentum Conservation	Four-Momentum Applications [PS3 due]	Miscellaneous Relativity	Moore Ch 10 TD&Z Ch 2
Sept. 23-27 <i>Week 5</i>	Review & Exam 1 Relativity	Quantization and the photoelectric effect	Scattering & Particle-Wave Duality	TD&Z Ch 3 & 4
Sept. 30-Oct. 4 <i>Week 6</i>	Atomic Spectra	Bohr Atom [PS4 due]	Hydrogen-like Atoms	TD&Z Ch 5
Oct. 7-11 <i>Week 7</i>	Matter Waves	Quantum Wave Function [PS5 due]	Uncertainty Principle	TD&Z Ch 6
Oct. 14-18 <i>Week 8</i>	Schrödinger in 1D	Particle in a Box [PS6 due]	No Class	TD&Z Ch 7
Oct. 21-25 <i>Week 9</i>	Review & Exam 2 Quantum in 1D	Simple Harmonic Oscillator	Schrödinger in 3D	TD&Z Ch 8
Oct. 28-Nov. 1 <i>Week 10</i>	Quantized Angular Momentum	Hydrogen Atom [PS7 due]	Electron Spin	TD&Z Ch 9
Nov. 4-8 <i>Week 11</i>	Magnetic Effects of Spin	Periodic Table [PS8 due]	Exclusion Principle	TD&Z Ch 10
Nov. 11-15 <i>Week 12</i>	The Nucleus	Radioactivity [PS9 due]	Nuclear Decay	TD&Z Ch 16 & 17
Nov. 18-22 <i>Week 13</i>	Catch-up	Review & Exam 3 Quantum & Nuclear [PS10 due]	Student Presentations	
Nov. 25-29 <i>Week 14</i>	Student Presentations	Student Presentations	No Class	
Dec. 2-6 <i>Week 15</i>	Student Presentations	Student Presentations	Student Presentations	
Dec. 9-13 <i>Finals</i>	Final Exam 11:30-1:20			