

TOPIC 1: PROPERTIES OF ELEMENTS, ISOTOPES & COMPOUNDS

8/29/07	L1	Organizational Meeting: ELEMENTS & ISOTOPES (Ch 1)
8/31/07	L2	THE CHARACTER OF ATOMS (Ch 5)
9/3/07		Labor Day
9/5/07	L3	Lab Demonstration: Spectra
9/7/07	L4	THE SPECTRA OF HYDROGEN: A QUANTITATIVE ATOMIC MODEL (Ch 5)
9/10/07	L5	MOSELEY'S LAW & INTRODUCTION TO WAVE MECHANICS (Ch 5)
9/12/07	L6	THE PERIODIC TABLE & ATOMIC WEIGHTS (Ch 6)
9/14/07	L7	Anne Hofmeister Guest Lecture
9/17/07	L8	THE PERIODIC TABLE & ATOMIC WEIGHTS, Contd. (Ch 6)
9/19/07	L9	PERIODIC PROPERTIES AND CHEMICAL BONDS (Ch 7)
9/21/07	L10	CHEMICAL BONDS & IONIC CRYSTALS (Ch 8)
9/24/07	L11	SILICATES & IONIC SUBSTITUTION (Ch 8)
9/26/07	L12	Recitation
9/28/07	L13	EXAM #1 (Criss to SMU)

TOPIC 2: THERMODYNAMICS AND HEAT FLOW

10/1/07	L14	EQUILIBRIA (Ch. 9)
10/3/07	L15	UNITS AND SOURCES OF ENERGY (Ch 11)
10/5/07	L16	LAWS OF THERMODYNAMICS (Ch 11)
10/8/07	L17	FUNDAMENTAL QUANTITIES; MAXWELL RELATIONS (&Q2)
10/10/07	L18	GASES, ADIABATS & ISOCHORES (Ch 11)
10/12/07	L19	No class? NCKMS Criss talk
10/15/07	L20	ATMOSPHERE (Ch 12)
10/17/07	L21	PHASE DIAGRAMS (Ch 12)
10/19/07		FALL BREAK
10/22/07	L22	LAWS OF HEAT FLOW AND DIFFUSION
10/24/07	L23	HEAT FLOW AND DIFFUSION
10/26/07	L24	STABLE ISOTOPE FRACTIONATION (Ch 17)
10/29/07	L25	OXYGEN ISOTOPE DISTRIBUTION
10/31/07	L26	EXAM II

TOPIC 3: COSMOCHEMISTRY AND ISOTOPE GEOLOGY

11/2/07	L27	DISTRIBUTION OF MATTER IN THE COSMOS (Ch 2)
11/5/07	L28	THERMODYNAMIC COSMOLOGY
11/7/07	L29	STELLAR CHARACTERISTICS & 'COSMIC' ABUNDANCES (Ch 2)
11/9/07	L30	STELLAR SPECTRA & EVOLUTION (Ch 2)
11/12/07	L31	NUCLEAR REACTIONS, BINDING ENERGY, & NUCLEOSYNTHESIS (Ch 2)
11/14/07	L32	ORBITAL CHARACTERISTICS & FORMATION OF THE SOLAR SYSTEM (Ch 3)
11/16/07	L33	PHYSICAL CHARACTERISTICS OF THE SOLAR SYSTEM (Ch 3)
11/19/07	L34	INTRODUCTION TO RADIOACTIVE DECAY (Ch 16)
11/21/07		Thanksgiving Holiday
11/23/07		Thanksgiving Holiday
11/26/07	L35	K-Ar & Rb/Sr GEOCHRONOLOGY (Ch 16)
11/28/07	L36	UTh/Pb GEOCHRONOLOGY; METEORITES (Ch. 16)
11/30/07	L37	AGE OF THE SOLAR SYSTEM , MOON, & TERRESTRIAL PLANETS (Ch 16)
12/3/07	L38	INTERNAL STRUCTURE & DIFFERENTIATION OF THE EARTH (Ch 4)
12/5/07	L39	DIFFERENTIATION OF THE EARTH, contd.
12/7/07	L40	Recitation
12/10/07	L41	Exam III