

	Date	Lecture #	Text	Topic
Focus 4: THERMODYNAMICS (finish) Focus 5: EQUILIBRIUM				
Week 1				
	January 21	1	4J	Gibbs Free Energy
	January 23	2	5A	Vapor pressure
Week 2				
	January 26			SNOW DAY
	January 28	3	5A	Vapor pressure
	January 30	4	5B	Phase diagrams; 1-component phase equilibria
Week 3				
	February 2	5	5C	2-component phase equilibria
	February 4	6	5C; 5D	2-component phase equilibria; Solubility
	February 6	7	5E	Colligative properties
Week 4				
	February 9	8	5F	Chemical equilibrium

	FEBRUARY 11: EXAM 1			
	February 13	9	5F; 5G; 5H	Thermodynamic description of equilibrium; Alternative forms of K ; Equilibrium calculations
Week 5				
	February 17 (TUESDAY)	10	5H	Equilibrium calculations
	February 18	11	5H	Equilibrium calculations
	February 20	12	5I	Perturbing equilibria
Focus 6: REACTIONS				
Week 6				
	February 23	13	6A	Nature of acid and bases
	February 25	14	6B	Autoprotolysis; pH
	February 27	15	6C	Weak acids and bases
Week 7				
	March 2	16	6D	pH calculations
	March 4: EXAM 2			
	March 6	17	6E	Polyprotic acids and bases
SPRING BREAK				

Week 8				
	March 16	18	6E	Speciation in polyprotic acids
	March 18	19	6F; 6G	pH of very dilute solutions. Buffers
	March 20	20	6G; 6H	Buffers. Acid-base titrations
Week 9				
	March 23	21	6H	Acid-base titrations
	March 25: EXAM 3			
	March 27	22	6I; 6J	Solubility equilibria. Precipitation
Week 10				
	March 30	23	6K	Redox reactions; Biological redox; Balancing redox reactions
	April 1	24	6L	Galvanic cells
	April 3	25	6M	Standard potential
Week 11				
	April 6	26	6N	Nernst equation
	April 8	27	6N	Nernst equation
	April 10	28	6O	Corrosion; Electrolysis

Focus 7: KINETICS				
Week 12				
	April 13	29	7A	Reaction rates
	APRIL 15: EXAM 4			
	April 17	30	7B	Integrated rate laws
Week 13				
	APRIL 20: PATRIOTS DAY			
	April 22	31	7C	Reaction mechanisms
	April 24	32	7C; 7D	Reaction mechanisms; Models of reactions
Week 14				
	April 27	33	7D	Models of reactions
	April 29	34	7E	Catalysis; Enzyme catalysis
	Friday, May 8 9:00 - 11:00 am	FINAL EXAM		