

week	Date		Contents	Remark
1	Feb	15	17	Chapter 9. Energy, Enthalpy, and Thermochemistry <ul style="list-style-type: none"> • <i>Heat, Work, Internal Energy Change (ΔE)</i> • <i>Hess's Law, Enthalpy Change (ΔH)</i> Chapter 10. Spontaneity, Entropy, and Free Energy <ul style="list-style-type: none"> • <i>Entropy (S) and the Second Law of Thermodynamics</i> • <i>Free Energy (G) and Equilibrium</i> Chapter 11. Electrochemistry <ul style="list-style-type: none"> • <i>Cell potential, Electrical Work, and Free Energy</i> • <i>Batteries, Electrolysis</i>
2		22	24	
3	Mar	1	3	
4		8	10	
5		15	17	• First Mid-term Exam
6		22	24	Chapter 15. Chemical Kinetics <ul style="list-style-type: none"> • <i>Rate Laws & The Integrated Rate Law</i> • <i>Reaction Mechanism</i> • <i>The Steady-State Approximation</i> Chapter 16. Liquids and Solids <ul style="list-style-type: none"> • <i>Intermolecular Forces</i> • <i>Bonding in Metals</i> • <i>Molecular and Ionic Solids</i> • <i>Phase Diagrams</i> Chapter 18. The Representative Elements <ul style="list-style-type: none"> • <i>The Chemistry of Hydrogen, Nitrogen, Phosphorus, Oxygen, Sulfur</i>
7		29	31	
8	Apr	5	7	
9		12	14	
10		19	21	
11		26	28	
12	May	3	5	• Second Mid-term Exam
13		10	12	Chapter 17. Properties of Solutions <ul style="list-style-type: none"> • <i>Solubility, Vapor Pressure, Boiling-Point Elevation, Freezing-Point Depression, Osmotic Pressure</i> • <i>Colligative Properties</i> Chapter 19. Transition Metals and Coordination Chemistry <ul style="list-style-type: none"> • <i>Coordination Compounds</i> • <i>Bonding in Complex Ions</i> • <i>The Crystal Field Model</i> Chapter 20. The Nucleus: A Chemist's View <ul style="list-style-type: none"> • <i>The Kinetics of Radioactive Decay</i> • <i>Nuclear Transformation</i> • <i>Nuclear Fission and Nuclear Fusion</i>
14		17	19	
15		24	26	
16	Jun	31	2	
17		7	9	

上課時地：W3W4-10:10~11:30, F3F4-10:10~11:30; 教室：旺宏館245室

➤ 教科書：Chemical Principles By Steven S. Zumdahl, Donald J. DeCoste, 8th Ed.

記分	期中考-I	30%
	期中考-II	30%
	期末考	40%

Office Hours : F7F8 , 陳益佳辦公室 : 化學館地下室B13室, Tel : 33339