

## Chem 344 Topics, and correlation to chapters in various texts

Category/ Timing/ Exams	Topic\Text/ General/ Quantum	Engel Drobny Reid	Tinoco Sauer Wang, Puglisi	Atkins dePaula	Raff	House	Blinder	Ratner Schatz
	Transport Review	Ch. 24						
<b><u>Kinetics</u></b> ~3 week	Rate Laws	Ch. 25. 1-5	Ch. 7	Ch. 6	Ch.19			
	Mechanisms	Ch. 25. 7-11	Ch. 7	Ch. 7	Ch.19			
	Rate Theory	Ch. 25. 10-14	Ch. 7	Ch. 7	Ch.20			
	Biochemical Processes	Ch. 26	Ch. 6	Ch. 8				
<i>Hour Exam</i>	Enzyme Kinetics	Ch.26.4	Ch. 8	Ch. 8				
<b><u>Structure</u></b> ~8 weeks	Quantum principles	Ch. 12, 13	Ch. 9	Ch. 9	Ch.11	Ch.1,2	Ch.1, 2,4	Ch.1,2
	Model problems box, oscill., atom	Ch. 14, 15	Ch. 9	Ch. 9	Ch. 12,13	Ch.3-8	Ch. 3,5-9	Ch. 3- 9
	Chemical bonding	Ch. 16, 17	Ch. 9	Ch. 10	Ch.14	Ch.9,11	Ch. 10- 12	Ch. 10-12
<i>Hour Exam</i>	Macromolecules?	Ch.23.11, 24.5-6	Ch. 9	Ch. 11				
<b><u>Spectroscopy</u></b> ~3 weeks	Electronic UV-vis, fluores.	Ch.19	Ch. 10	Ch. 13	Ch. 15		Ch. 14	Ch. 14-15
	Vibrational IR, Raman	Ch. 18	Ch. 10	Ch. 13	Ch. 15		Ch. 14	Ch. 14-15
	Photobiology?		Ch. 10	Ch. 13				
<i>Final Exam</i>	Magnetic Resonance?	Ch. 20	Ch. 10	Ch. 14	Ch. 16		Ch. 15	