Chapter 16:

C. Determination of Rate Law (Rate = \( k[A]^m[B]^n[C]^p \ldots \)) (pg. 634-642)

D. Zeroth, First and Second Order Reactions (pgs. 642-648)
1. Integrated Form of Rate Law
2. Half-Life (\( \tau_{1/2} \))

Graded Online Homework: 116-integrate
Other Homework: Follow-Up Problems: 16.3-16.7
Chapter 16 (Problem Book) 11-18

E. Collision Theory & Arrhenius Eqn. (\( k = A \times e^{-E_A/(RT)} \)) (pg. 648-655)

F. Elementary Reactions & Reaction Mechanisms (pg. 655-660)

G. Catalysis (pg. 660-665)

Graded Online Homework: 116-mech
Other Homework: Follow-Up Problems: 16.8-16.10,

Chapter 17:

A. Chemical Equilibrium (\( K = [\text{Products}]/[\text{Reactants}] \)) (pg. 677-679)

B. \( K_c, K_p \) and Relationship of \( K_c \) to \( K_p \) (pg. 686-687)

Graded Online Homework: 116-introeq
Other Homework: Follow-Up Problems: 17.3, 17.4
End of Chapter Problems: 17.1, 17.3, 17.4, 17.16, 17.25, 17.26, 17.27, 17.29, 17.31

C. Reaction Quotient \( Q_c \), Conc. Problems and Quadratic Eqn. (pg. 680-686; 687-698)

D. Le Chatelier’s Principle and Its Application (pg. 698-709)

Graded Online Homework: 116-lechat
Other Homework: Follow-Up Problems: 17.1, 17.2, 17.5, 17.6-17.15
End of Chapter Problems: 17.6, 17.7, 17.11, 17.12, 17.14, 17.18, 17.23, 17.33, 17.38, 17.40, 17.41-17.51 (odd), 17.55, 17.59, 17.63-17.71 (odd)
Chapter 17 (Problem Book) 1-6, 8-24 even (do 8-24 odd if needed)

Continued on Back
Chapter 18:  

A. Acid/Base Theories and Strengths (pg. 719-724; 728-733; 750-754)

Graded Online Homework: 116-acid
End of Chapter Problems: 18.2, 18.4, 18.5, 18.7, 18.15, 18.17

B. Dissociation of H2O, pH, pOH, Kw (pH=-log[H+], pOH=-log[OH-]) (pg. 724-726)
C. pH of Solutions of Strong Acids and Bases (pg. 727-728)

Graded Online Homework: 116-pH
Other Homework: Follow-Up Problems: 18.2, 18.3
End of Chapter Problems: 18.21, 18.22, 18.23-18.31 (odd), 18.151
Chapter 18 (Problem Book) 11, 14, 15

NOTE: Exam II is Wednesday, Oct. 3 (in lab) and will cover most of the topics listed on this sheet. You are responsible for material covered in lecture, reading material assigned from your text and material covered in homework problems (graded and other). Please bring the following items to the exam: #2 pencil, non-programmable calculator, and photo ID. Sample back tests can be found on the Chem 116 website at http://www.as.wvu.edu/~mbabb and on ecampus.