

**CHEM 116: HOMEWORK SHEET
FINAL (Fall 2011-Dr. Babb)**

Chapter 16: A. Spontaneity and Entropy (pg. 647-661)

Graded Online Homework: 116-entropy

*Other Homework: 16.1-16.6, 16.30, 16.36, 16.38, 16.40, 16.44-16.56 (even)
Chapter 15 (Problem Book) 7-10, 14, 15*

B. Free Energy and Equilibrium (pg. 662-677)

Graded Online Homework: 116-gibbsfe

*Other Homework: 16.7-16.17, 16.22, 16.24, 16.28, 16.62-16.92 (even), 16.96, 16.104, 16.110
Chapter 15 (Problem Book) 16-20*

Chapter 17: A. Galvanic Cells and Std. Reduction Potentials (pg. 687-694)

B. Standard Reduction and Net Cell Potentials (E°_{cell}) (pg. 694-699)

Graded Online Homework: 116-electrochem

*Other Homework: 17.1-17.4, 17.26, 17.28, 17.36-17.46 (even)
Chapter 20 (Problem Book) 9-12*

If time permits.....

C. Nernst Equation and Relationship Between E°_{cell} , ΔG° , and K (pg. 699-708)

E. Electrolysis (pg. 716-724)

Graded Online Homework: 116-nernst

*Other Homework: 17.5-17.14, 17.20, 17.22, 17.23, 17.32, 17.52-17.82 (even),
17.94-17.104 (even)
Chapter 20 (Problem Book) 13-19 and 1-8
Chapter 15 (Problem Book) 21-24*

NOTE: Final exam is Tuesday December 13 and will cover most of the topics listed on this sheet AS WELL AS the material covered within the first four exams. You are responsible for material covered in lecture, reading material in text and material covered in homework problems. **Please bring the following items to the exam: #2 pencil, non-programmable calculator (cover removed), and photo ID.** You must bring a photo ID since your instructor may not be in your exam room.

**ANY STUDENT SCORING 40% OR BELOW ON THE FINAL EXAMINATION WILL EARN A GRADE OF "F",
REGARDLESS OF HIS/HER OTHER AVERAGES. SIMILARLY, OTHER VERY LOW SCORES COULD RESULT IN A
REDUCTION OF ONE LETTER GRADE.**

End of Semester Chem 116 Schedule:

Wednesday Dec. 7, 2011 **Lab Final Exam and Checkout**

Friday Dec. 9, 2011 **Makeup Exam** only for students with excused absences from exams. Students will take a makeup exam on approximate content/material from the missed exam.

Tuesday Dec. 13, 2011 **Final Exam** (7-9 PM); Color = Blue or Green; Go to assigned exam room as specified by first letter of last name. Also, go to correct campus (M=Main Campus; T=Evansdale/Towers area). See roster outside of Clark 101 or roster on ecampus for campus assignment.

Main Campus

A-J in Clark 101

K-Z in Ming Hseih G21

Evansdale/Towers Campus

A-K in Eng. Sci. Bldg G102

L-Z in Percival 334