CH 1160
Spring, 2013

Instructor: Dr. David Chesney
Office: Chem Sci 404C
Email: djchesne@mtu.edu (please put “CH1160” in the subject line)
Lecture: MWF 11:00 AM in Dow 641
Office hours: MWF at 12 PM
Textbook: “Chemistry” by Chang 11th edition

Introduction
Students in CH 1160 are required to take the associated laboratory (CH 1161) as a co-requisite. A separate recitation section (CH 1163) is also offered, and you may choose to register for CH 1163 even if your major does not require you to do so. The recitation sessions will emphasize problem solving, and are an excellent means to help you identify those course topics with which you are less than proficient.

Tentative course outline
Chemical Kinetics Monday, Jan 14 Chapter 13
MLK Day Monday, Jan 21
Chemical Equilibrium Monday, Jan 28 Chapter 14
Winter Carnival Break Wednesday, Feb 6 (10 pm)

Review Day Monday, Feb 11
Exam 1 Wednesday, Feb 13 Exam 1 (Material thru Feb 6)
Acids and Bases Friday, Feb 15 Chapter 15
Acid-Base Equilibria and Friday, Feb 22 Chapter 16
Solubility Equilibria

Review Day Wednesday, March 6
Exam 2 Friday, March 8 Exam 2 (Material thru March 1)
Spring Break March 8 - 17 Spring Break
Entropy, Free Energy, and Monday, Mar 18 Chapter 17
Equilibrium
Electrochemistry Friday, March 29 Chapter 18

Review Day Monday, April 8
Exam 3 Wednesday, April 10 Exam 3 (Material thru April 5)
Nuclear Chemistry Monday, April 15 Chapter 19
Final Exam Week of April 29 Comprehensive

Grading
Exam 1 100 pts A 90-100%
Exam 2 100 pts AB 86-89%
Exam 3 100 pts B 80-85%
Final Exam 200 pts BC 76-79%
Total 500 pts C 60-75%
CD 56-59%
D 50-55%
Course Administration
For any administrative issue (excused makeup exam, learning disability accommodations, athletic travel, etc., please see Lois Blau in the Chemistry Learning Center (lablau@mtu.edu). If you contact me about administrative issues, I will direct you to Lois, since she knows just about everything there is to know about addressing such issues.

Canvas
I may on occasion place material on Canvas that augments the discussion in class.

Chemistry Learning Center
The CLC is open – hours are posted. I encourage you to use it early and often. I highly recommend seeking out the CH 1163 recitation instructors who are required to attend 1160 lectures. They will have the freshest background for solving problems – particularly when we get to chemical equilibrium.

SI (Supplemental Instruction)
A designated individual will be attending the class and will be posting hours for SI.

Exams
Three hour exams and a final exam are scheduled for the term. These will be of the multiple-choice type. On the hour exams, you are allowed to use one 3X5 inch card on which you can enter any information that you do not care to memorize.

The instructor reserves the right to give pop quizzes.

Practice Problems
Do you want a good grade in this class? If so, it is essential that you work practice problems until they become so easy they’re boring. Part of the problem with Chang is that there aren’t enough practice problems. In addition, he doesn’t provide the answers to the odd-numbered problems, even in the “Student Solutions Manual.”

You need to find additional problems to do. Here are some suggestions:
1) Change the numbers. There is nothing prohibiting you from changing the numbers in a problem (be reasonable - no negative temperatures). Solve the “new” problem and exchange the problem with a study buddy. You’ll be surprised how much you learn this way.
2) Find alternative textbooks. Each author treats a given concept slightly differently. Often problematical issues can be resolved just by reviewing the topic in a different text. The CLC has a wealth of textbooks by different authors on its shelves, each one having its own Examples, Practice Exercises, and end-of-chapter problems to solve.
3) Search for tutorials or worksheets on the internet. Some of them are pretty good.
Class Schedule And Absence Policy
The hour exams in this class are scheduled during class hours in an attempt to minimize scheduling conflicts. An unexcused absence is an automatic zero for any exam that is missed. An excused absence may be granted by the Office of Student Affairs only. If you know that you will have an official university excused absence on a day that an exam is scheduled (university athletic event or religious holiday), you are required to make arrangements as early as possible in advance of the exam date. Other examples of excused absences granted in the past are serious illness or a death in the family. Excused absences are not given to travel home (there is an exam scheduled the Friday prior to Spring Break) or to attend a social event. Plan to take your exam at the scheduled time.

Cell Phones, calculators, etc.
Cell phones and Blackberries are not to be used in the classroom. Use of any other electronic device should be done in such a way to avoid disturbing others. Information exchanges on these devices during exams are also prohibited and violate the Academic Integrity Code of Michigan Tech.

Please make sure to bring a calculator with you to class. Programmable calculators are NOT allowed in the exams. Acceptable inexpensive nonprogrammable calculators can be purchased at the MTU bookstore for about $10 to $15.

University Policies
Academic regulations and procedures are governed by University policy. Academic dishonesty cases will be handled in accordance the University's policies. If you have a disability that could affect your performance in this class or that requires an accommodation under the Americans with Disabilities Act, please see Lois Blau in the CLC as soon as possible so that we can make appropriate arrangements.

The Affirmative Action Office has asked that you be made aware of the following: Michigan Technological University complies with all federal and state laws and regulations regarding discrimination, including the Americans with Disabilities Act of 1990. If you have a disability and need a reasonable accommodation for equal access to education or services at Michigan Tech, please call the Dean of Students Office at 487-2212. For other concerns about discrimination, you may contact your advisor, Chair/Dean of your academic unit, or the Affirmative Programs Office at 487-3310.

Academic Integrity:
http://www.studentaffairs.mtu.edu/dean/judicial/policies/academic_integrity.html

Affirmative Action:
http://www.admin.mtu.edu/aoa/

Disability Services:
http://www.mtu.edu/dean/disability/services/