Instructor: Prof. Louis J. Kirschenbaum  Room 425F Beaupre  
Telephone: 874-2340  E-mail: chm112@chm.uri.edu

Office Hours: Monday, Wednesday 9:15-9:40 AM and after class, Thursday, 9:30-10:30 AM or by chance.  
(I am often in the Ram’s Den around 8-8:45 AM. You can see me there.)


Sakai Site is CHM112 Sp18 LJK

Resources and online homework  
Mandatory: McGraw-Hill Connect. BOOKMARK THE URL FOR OUR COURSE:

http://connect.mheducation.com/class/kirschenbaum-spring-2018

You must REGISTER first (Under “students” tab). Do not click “SIGN IN” until after you have registered for the CHM112 site.

There will be graded CONNECT homework, and LearnSmart modules. These are particularly useful in helping reinforce the concepts in each chapter. The PREP part of LearnSmart will help refresh you in fundamental concepts that are prerequisite to understanding the more advanced topics in Chemistry 112.

Course Description and Philosophy:  
The second semester of general chemistry is devoted to the examination of chemical reactivity with special emphasis on reaction rates, equilibria, thermodynamics and electrochemistry. Our study will include both descriptive and quantitative aspects of chemistry. Although a fair amount of time will be devoted to problem solving, you will also be required to understand the concepts underlying the material. In fact, if you do this properly it makes problem solving much easier. Close attention to the concepts and chemical reactions covered in the Laboratory will be helpful in learning the descriptive material covered in the lecture.

Topics to be covered:
  Chapter 14  Kinetics  
  Chapter 15  Equilibrium  
  Chapter 16  Acids and Bases  
  Chapter 17  Solubility  
  Chapter 18  Thermodynamics  
  Chapter 19  Electrochemistry

The lectures will follow the book very closely, and for that reason, I do not post my lecture notes (but I sometimes put part of my slides on Sakai). Thinking with me, taking good notes and asking questions is the best way to use your class time. Of course you should always be prepared for what is coming next!

Daily Assignment: Preview the current chapter each day before you come to class.  
Keep cell phones laptops and tablets etc. off and hidden at all times.  
Graphing calculators may not be used during exams/quizzes! Only simple scientific calculators.
Learning is Cumulative (!)
There are many topics from first semester chemistry that **must** be mastered in order for you to succeed in this course. Important examples include the **names and formulas** of simple compounds and ions. Be prepared to integrate old and new material as we progress in this course.

Please review important background material—make good use of the **glossary** and **index** in your book. The CONNECT Library has a variety of learning aids including **sample exam questions (“Quizzes”)** and some excellent simulations. The CHM112 Sakai site includes a link to Prof. Geldart’s Chemistry 101 lecture notes.

**Exams and Grading:** Three in-class **hour exams** will be given on **Friday, February 16, Friday, March 23 and Friday April 27**. The lowest grade will be dropped and the second lowest will be counted twice. [67%] the **final exam** (**Friday May 4 at 8 AM**) counts as the other 33% of your **exam average**. The quiz/homework average (10 points maximum) will be **added** to your exam average. There are no **makeup quizzes or exams**. [I will discuss revised grading schemes only upon presentation of a **written** medical (or similar) excuse.]

**Homework/LearnSmart Assignments:** You will receive assignments from the **Connect** site (or Sakai) as well as the date when the assignment must be completed. (Be sure you use the same e-mail address for E-campus, Connect and Sakai)! LearnSmart is more conceptual than the **CONNECT** problems but just as important in understanding the material. The Connect **LIBRARY** also contains practice quizzes with questions very similar to the multiple choice questions on exams.

**Extra Help**

**I AM YOUR FIRST LINE OF DEFENSE!** I am anxious to give you as much out-of-class help as I can. Let me know if you can’t make my office hours.

**Other resources:**

**Academic Enhancement Center:** (fourth floor of Roosevelt Hall). The AEC is especially helpful for study habits or time management skills. They are open in the afternoon and night and have (free) chemistry tutors. **You, and up to five friends, can also form a weekly tutoring group. Sign up at http://web.uri.edu/aec/tutoring/**

**Textbook Questions and Problems:** While many of the assigned Connect problems are like ones in your textbook, it is a good idea to attempt other similar or more challenging ones. The “**Review Questions**” are particularly important in testing your understanding. There are several copies of the answer book on (closed) reserve in the Library.

**Khan Academy** videos cover most of the topics of this course in a more leisurely way.

**Chemistry Help office:** The Beaupre Learning Center (Room 115) is staffed throughout the day by Chemistry Department TAs. While the CHM 114 TAs are more in tune with your needs, most are able to help with General Chemistry questions. Answers to questions in the textbook are also in room 115.