Syllabus
CHEMISTRY 112 General Chemistry Lecture II Spring 2017

Instructor: Prof. Louis J. Kirschenbaum Room 425F Beaupre
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Office Hours: Monday, Wednesday 9:45-10:45 AM, 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 Sp17 LJK

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

http://connect.mheducation.com/class/kirschenbaum-spring-2017

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

In addition to the required CONNECT homework, there will be non-graded 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.

My Assistant Frederick Nguele Meke nmfrederick@my.uri.edu will be available for help and administration. He will also hold study sessions Wednesdays at 5 PM in Room 117.

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 expected 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. 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 17, Friday, March 24, and Friday, April 28. The lowest grade will be dropped and the second lowest will be counted twice. [67%] and the final exam (Friday May 5 at 11:30 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 Assignments: You will receive assignments from the Connect site as well as the date when the assignment must be completed. Be sure that you use and check your e-campus e-mail. If you use another address, either change your profile before registering or set forwarding. Also on the CONNECT site will be LEARNSMART modules. These will not be graded. They are more conceptual than the graded 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.

FREDERICK AND I ARE YOUR FIRST LINE OF DEFENSE!

Other resources:

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 117) 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.

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/