

SYLLABUS
CHEM 1212 / 001 (CRN 21107)

PRINCIPLES OF CHEMISTRY II
Class ☎: TR 1:00 – 2:15 pm @ H-200

Spring 2013

Instructor: Lu Kang, Ph. D.
Office: E-181
Office ☎: 678-915-3276

URL: <http://educate.spsu.edu/lkang>
E-mail: lkang@spsu.edu
Office ☎: T 2:30 – 5:30 pm; W 9:00 – 11:50 am

I keep an open door policy. Students are always welcome to drop by my office (E-181) for help!

DESCRIPTION & OBJECTIVE:

CHEM 1212 is the 2nd course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science or engineering major students. The emphases are focused on the inquiry-based, hands-on activities which are integrated into lecture class and laboratory practice. The following topics: molecular orbital theory, liquid & solid, properties of solutions, chemical kinetics, chemical equilibrium, acid & base, aqueous equilibria, thermodynamics, and electrochemistry, *etc.*, will be discussed. The course objective is to help students acquire fundamental knowledge of chemistry and develop critical thinking and problem solving skills. The prerequisites are CHEM 1211 / CHEM 1211 L. **Please note that CHEM 1212 L is now a separate course and a co-requisite of CHEM 1212. There are no longer lab exemptions. Even if you passed the lab under the earlier 4 credit hour CHEM 1212 K, you still need to take CHEM 1212 L.**

TEXTBOOK: Chemistry, 8th Ed., by Zumdahl & Zumdahl. (ISBN-13: 978-0-547-12532-9)

TUTORING: Contact ATTIC via ☎: 678-915-7361

GRADINGS: A: > 90 B: 80 – 89 C: 70 – 79 D: 60 – 69 F: < 59

The regular lecture class attendance is mandatory. Should you miss a class for any reason, you are responsible for all course materials discussed in that class.

Attendance	5%	(Bonus!)
Homework / Practice	10%	(Sapling Learning)
Quiz / Survey	15%	(5% engagement quiz + 10% pop-up quizzes)
Hour-Exams	50%	(12.5% for each of 4 hour exams)
Final Exam	25%	(Comprehensive test)

1. Should you miss an hour-exam or a quiz for any reason, you get a zero. **No make-ups will be given.** However, your lowest hour-exam grade can be replaced by the final exam grade (if it is higher).
2. Homework will be assigned every Tuesday or Thursday on www.saplinglearning.com. Students need to get an account from this website to access the problem set questions.
3. An engagement grade will be posted via Banner on the Engagement Day. This grade will be given as “S” (satisfactory, 70% or better) or “U” (unsatisfactory, less than 70%), which is based on your attendance, problem sets, pop up quizzes and an engagement quiz (for chapter 9 only, 5% of the final grade), each appropriately weighed according to this syllabus.
4. A midterm grade will be posted via Banner prior to the Last Day to Withdraw w/o Academic Penalty. This grade will be given as “S” (satisfactory, 70% or better) or “U” (unsatisfactory, less than 70%), which is based on your attendance, quizzes, exams, and homework, each appropriately weighed according to this syllabus. No grades will be dropped for this estimation and anything due but not received yet will be graded zero.
5. Practice is one of the best ways to develop your analytical thinking skills. Don’t give up and leave a blank on the answer sheet. You are encouraged to show me your tentative solutions and it will be my pleasure to evaluate your efforts. I reserve the right to give partial credits for the efforts even if your final answers might be wrong. **Having creative ideas is more exciting than merely a right answer.**

HONESTY:

1. Academic honesty as detailed in the Student Handbook is expected. The use of calculator programs as crib sheets will be considered cheating. The memory of programmable calculator must be cleared before exams. The use of cell phones or any electronic devices other than calculators during exams will be considered cheating.
2. SPSU has an Honor Code and a new procedure relating to when academic misconduct is alleged. All students should be aware of them. Information about the Honor Code and the misconduct procedure may be found at <http://spsu.edu/honorcode/>.

CALENDAR: <https://zimbra.spsu.edu/home/calendar@spsu.edu/Registrar%20Calendar.html>

1. 01/07/2013 (Monday) is the **First Day of Class**.
2. 01/10/2013 (Thursday) is the **End of Add/Drop (the Last Day to Pay for Spring 2013 semester)**.
3. 01/21/2013 (Monday) is the **Martin Luther King Jr. Holiday**.
4. 01/28/2013 (Monday) is the **Due Date for Engagement Report**.
5. 02/21/2013 (Thursday) is the **Due Date for Midterm Grade**.
6. 02/26/2013 (Tuesday) is the **Withdraw Day (the last day to withdraw w/o penalty)**.
7. 03/03/2013 – 03/09/2013 (Sunday – Saturday) are the **Spring Break**.
8. 04/29/2013 (Monday) is the **Last Day of Class**.

STUDENT HEALTH SERVICES:

Health Services provides service for minor illnesses. A nurse is on duty (8:30 am – 5:00 pm) Monday – Friday in the Recreation and Wellness Center. Please call ☎: 678-915-7366 for help. If in a serious situation, please call Wellstar at ☎: 770-955-8620.

DISABILITY STATEMENT:

Students with disabilities who believe that they need accommodations in this class are encouraged to contact the Disability Service Coordinator, Ms. Kalista Thomas, via ☎: 678-915-7244 to ensure that such accommodations are implemented in a timely fashion. Information on Disabilities Services can be found at http://www.spsu.edu/attic/Dis_Svcs.html.

CAMPUS EMERGENCY MANAGEMENT:

If something serious happens on campus, please call CAMPUS SAFETY at: **Ext. 5555** via campus IP phones whenever the campus network is available. Otherwise, you can dial ☎: 678-915-5555 or 770-528-5555 to reach CAMPUS SAFETY. Keep this in mind: in SPSU campus our safety officers can always find you, reach you, and help you quicker than anyone else.

Instructions to access on-line exercises (Sapling Learning):

1. Go to [http://www. saplinglearning.com](http://www.saplinglearning.com)
2. If you already have a Sapling Learning account, log in, then skip to step 5.
3. If you have a Facebook account, you can use it to quickly create a Sapling Learning account. Click “create account” located under the username box, then click “Login with Facebook”. The form will auto-fill with information from your Facebook account (you may need to log into Facebook in the popup window first). Choose a password and fill in the remaining information, accept the site policy agreement, and click “Create my new account”. You can then skip to step 5.
4. Otherwise, click “create account” located under the username box. Supply the requested information and click on the link provided in that email to confirm you account.
5. Find your course in the expandable list (sorted by subject, term, and instructor) and click the title link.
6. Select your payment options and follow the remaining instructions.

Once you have registered and enrolled, you can log in at any time to complete or review your homework assignments.

If you have any technical problems or grading issues during sign-up and throughout the term, send and email to support@saplinglearning.com and explain the issue. The Sapling support team is almost always more able (and more quickly) to resolve issues than your instructor.