2012FA-CHEM -1412-5426
Chem 1412 General Chemistry II
ONLINE COURSE SYLLABUS
Fall, 2012

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Office: A543
Phone: 214-860-2643
Technical Support: 972-669-6402

Course Description
This course is for science and science-related majors. Fundamental concepts of chemistry are presented including thermochemistry, rate of reaction, acids and bases, equilibria in acid-base solution, spontaneity of reaction and electrochemistry etc. An understanding of organic chemistry and biochemistry depends on a sound foundation of general chemistry.

Textbooks (Lecture and Lab)
• Chemistry: Principles and Reactions, 7th Edition
  Masterton/Hurley/Neth, Chemistry:
  ISBN-1111660417

• Virtual ChemLab: General Chemistry, Student Lab Manual / Workbook, v2.5, 3/e
  Woodfield & Asplund
  ©2006 | Prentice Hall | Paper: 240 pp | Instock
  Publisher Text Site: http://catalogs.mhhe.com/mhhe/viewProductDetails.do?isbn=0073403547

Computer Requirements
To participate in this course, you will need access to hardware and software that meet the following requirements.
• Computer connected to the Internet
• Email address containing either your first or last name
• Windows-based OR Mac/UNIX equivalent
• Internet Explorer 5.0 or higher OR Netscape Navigator 5.0 or higher
• 56K modem or faster
• Flash Plug-in
  • In order to receive maximum interactive benefit from this course, you must have the following plug-in player installed and functioning properly on your system. To download the player, simply click on the icon below and follow the instructions provided.

  • Access to Microsoft Office 2003 or higher software with the following application software:
    • Word processing (Word)
    • MS Works may not be used.

Technical Support
Although the system that you will be using for this course can be reached through the computer labs at any DCCCD campuses, the student is responsible for required equipment and technical support. If you are having problems with eCampus, please call LeCroy Help Desk for technical support at 972.669.6402.

**Student Profile**

After registering for this course, in order for you to receive e-mail messages, your name and e-mail address need to be in the course’s database. To enter your information:

- Enter the course (Chem 1412).
- Click on My Grades button in the Left Navigation Bar.
- Look for a number of icons to appear in your browser window.
- Click on Personal Information
- Several links will appear. Click on Edit Personal Information at the top.
- Wait for the form to appear, and add your individual data. **Your name and email address are required.** Phone number is requested in case we need to contact you in person.
- Make sure to click on the Submit Button at the bottom of the page.

**Course Prerequisites**

DMAT 0093 or equivalent and any one of the following: high school chemistry, Chemistry 1411 or equivalent or permission of the Instructor.

Previous experience with on-line courses is highly recommended.

**Course Requirements**

- Complete the Course Orientation.
- Update your Student Profile under My Grades button, and send an email to your instructor.
- Read assigned material.
- Participate in assigned discussions, posting and replying as directed in “Weekly Announcement”.
- Complete learning activities/ lab assignments.
- Prepare for and complete chapter tests and exams.

**Time Commitment**

Successful performance in the course will take a time commitment of **approximately 10-12 hours/week of your time.**

**Discussion Board**

Discussion boards are used to orient students to the course and to assist in the more challenging chapters. Discussion board comments are entered online either within the chapter content or under the Discussion Board navigation button. Each forum contains one discussion topic (thread). To maintain good communication, organization is required. Please follow directions carefully.

**How to complete a discussion board:**

1. Enter the Discussion Board section for the course.
2. Click on the topic (thread) and read the directions.
3. Click on the Reply button.
4. Type or paste your response in the Message test box.
5. Observe Rules of Netiquette (located under Start Here).
6. Click the Submit button.
7. Look through your classmates messages and respond to someone else’s message with two or three sentences. (Click on the student’s message, click on Reply, type your response, and click Submit.)
8. Click OK at the end of the board to exit. (You will have to scroll down to see the OK button.)

Learning Activities
- Students will face to the computer for study and can repeat the chapter study with eCampus but they still need to make study notes. It is extremely important for on-line class.
- There are several interactive activities to complete for each chapter assignment.
- Do NOT send results to your instructor. These activities are for your learning and you may repeat as often as you need to learn the material.

Proctored Tests and Final Exam
- Each Proctored Test consists of 30 questions @ 3 points each plus bonus question worth a total of 100 points. The questions are composed of lecture material questions. Usually before each test the instructor will give students a face to face review time, that is on Friday meeting, once one month and optional. If you want to talk to instructor please make an appointment with your instructor in advance.
- Prepare two sharpened pencils, eraser, calculator and scantron (FORM NO.882-E), green color , for each test. The sketch paper and “The Periodic Table of Elements” are provided which attached to the test sheet.
- Typically, unless otherwise noted, proctored exams are proctored in the El Centro Testing Center (214-860-2178) located on the basement of the A building Proctored Tests will only be available the days they scheduled in the syllabus. It is the student’s responsibility to verify the Testing Center hours and to adjust their schedule accordingly to take the test within the prescribed time. There is a 15% deduction taken for exceeding the time limit or any test taken beyond the due date. Late tests must be scheduled with the instructor. No late exams will be accepted after the last day of class.
- Distance education students (out of DFW area) may arrange to take their tests at a local university or college Testing Center. Distance notification, eligibility, and alternate testing location information must be arranged with the instructor within the first 2 weeks of class. You are responsible for locating a proctor and any fees involved. You must contact the instructor with the name, telephone number, and email address of a contact person at the testing center. No cross campus test among DCCCD at moment.

Attendance/Participation
Students are required to document attendance and participation in this course through discussion board participation and completing assignments, tests and exams on time. Check for new announcements each time you log in. Changes and other important information will be posted on this page as necessary, and being unaware of the available information will not be accepted as an excuse for failing to comply with it.
**Contacting Instructor**
Place the **course section number in the subject line** (Example: CHEM 1412-5426) followed by a title for your message when emailing your instructor. This will expedite instructor response and facilitate correct information.

The best way to reach the instructor is by email. Contact information (email address, telephone number, office) is available under the *My Instructor* button.

The instructor will reply by email within 24-48 hours, Monday through Friday. The instructor is not available on weekends or holidays. An email sent Friday afternoon may not be read until Monday afternoon.

**Assignments**
The course is organized into 16 weeks. Assignments can be found under the *Assignments* navigational button on the course’s main page. Areas found under this heading:

- **Assignment** — The test bank is provided. The suggestion by instructor is that students only need to do half, even number or odd number, for each chapter, that is enough. Students don’t need to turn their assignments but if somebody doesn’t practice problems/questions he/she will get trouble in the test.
- **Lab** — Lab exercises are connected with relevant chapter. Students must have a lab manual with its CD. Students can follow manual instruction to install CD and do labs.
- **Discussions** — The students participate in Discussion is highly recommended. The instructor will post some hints on Discussion Board. Students also can post their questions on the Discussion Board for help.

**Instructional Strategies**
Instructional strategies in this course will focus on readings, discussions, assignments and exams, and interactive computer exercises.

**Grade Determination**

- A = 90 - 100%
- B = 80 - 89.9%
- C = 70 - 79.9%
- D = 60 - 69.9%
- F = below 60%

**Institutional Policies**

**Academic Honesty**
Academic dishonesty (cheating) will not be tolerated in either lecture or laboratory sections of the course. If cheating is observed, points for that activity will be disallowed, and grades of zero given for cheating may not be dropped. Academic dishonesty includes activities such as copying lab report answers from other students and collaboration with students who have completed Chapter Tests and Proctored Exams. **It can be assumed that tests/exams showing the same or similarly missed questions as evidence of dishonesty. All tests involved can**
receive a score of zero. Also, students missing similar questions when taking the test at or near the same time will be more closely scrutinized. Instructor reserves the right to schedule separate testing times for students.

Withdrawal Policy
If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar’s Office before the last drop day. It is YOUR responsibility to withdraw from a course. Your instructor cannot initiate this procedure for you. Failure to drop by the deadline will result in your receiving your actual performance grade, usually a grade of “F”. If you drop a class before the official drop/withdrawal deadline, you will receive a “W” (Withdraw) in each class dropped. The last day to drop for this semester is Thursday, November 15, 2012.

Disability Accommodations
Any student who may need accommodations due to a disability should contact the Disability Services Office, Room A110 phone number (214) 860-2411.

Financial Aid Statement
Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment by the end of the semester. Students who fail to attend or participate after the drop date are also subject to this policy.

Stop Before You Drop
For students who enrolled in college-level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: https://www1.dcccd.edu/coursedrops

Religious Holy Days Statement
A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence if, not later than the fifteenth day after the first day of the semester, the student notified the instructor of each class scheduled on the date that the student would be absent for a religious holy day. A “religious holy day” means a holy day observed by a religion whose places of worship are exempt from property taxation under Section 11.20, Tax Code. The notice shall be in writing and shall be delivered by the student personally to the instructor, with receipt acknowledged and dated by the instructor or by certified mail, return receipt requested, addressed to the instructor. A student who is excused under this section may not be penalized for the absence, but the instructor may appropriately respond if the student fails to satisfactorily complete the assignment or examination.
# Course Schedule

## Chem 1412 Tentative Schedule

**Fall, 2012 Course Calendar**

<table>
<thead>
<tr>
<th>WEEK</th>
<th>#</th>
<th>ASSIGNMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug. 27</td>
<td>1</td>
<td>Complete the Course Orientation. Read the course Syllabus.</td>
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<tr>
<td></td>
<td></td>
<td>Participate in the discussion board “Introduce Yourself”</td>
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<tr>
<td></td>
<td></td>
<td><strong>Chapter 8: Thermochemistry</strong></td>
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<tr>
<td></td>
<td></td>
<td><strong>Virtual ChemLab</strong></td>
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<tr>
<td></td>
<td></td>
<td>Thermodynamics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3-1, 3, 5, 8, 9, and 11.</td>
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<tr>
<td>Sep. 3</td>
<td>2</td>
<td><strong>Chapter 8: Thermochemistry</strong></td>
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<tr>
<td></td>
<td></td>
<td><strong>Virtual ChemLab</strong></td>
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<tr>
<td></td>
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<td>Thermodynamics</td>
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<td></td>
<td></td>
<td>3-1, 3, 5, 8, 9, and 11.</td>
</tr>
<tr>
<td>Sept. 10</td>
<td>3</td>
<td><strong>Chapter 11: Rate of Reaction</strong></td>
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<tr>
<td>Sept. 17</td>
<td>4</td>
<td><strong>Chapter 11: Rate of Reaction</strong></td>
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<tr>
<td></td>
<td></td>
<td><strong>Chapter 12: Gaseous chemical Equilibrium</strong></td>
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<tr>
<td>Sept. 24</td>
<td>5</td>
<td><strong>Chapter 12: Gaseous chemical Equilibrium</strong></td>
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<td></td>
<td><strong>Proctored Test 1</strong></td>
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<td></td>
<td></td>
<td>➢ Material from chapters 8, 11, and 12</td>
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<tr>
<td></td>
<td></td>
<td>➢ Must be taken from 9/28 – 10/2 (Fri, Sat, Mon, or Tues)</td>
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<td></td>
<td>➢ Take the test in Testing Center and submit your 1st lab reports to</td>
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<td>my office/division office or email to me.</td>
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<tr>
<td>Oct. 1</td>
<td>6</td>
<td><strong>Chapter 13: Acids and Bases</strong></td>
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<td></td>
<td></td>
<td><strong>Virtual ChemLab</strong></td>
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<tr>
<td></td>
<td></td>
<td>Acid-Base Chemistry</td>
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<tr>
<td></td>
<td></td>
<td>6-1, 2, 3, 4, and 7</td>
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<tr>
<td>Oct. 8</td>
<td>7</td>
<td><strong>Chapter 13: Acids and Bases</strong></td>
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<td></td>
<td><strong>Chapter 14: Equilibria in Acids – Bases Solutions</strong></td>
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<tr>
<td></td>
<td></td>
<td><strong>Virtual ChemLab</strong></td>
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<tr>
<td></td>
<td></td>
<td>Acid-Base Chemistry</td>
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<tr>
<td></td>
<td></td>
<td>6-8, 10, 11, 12, and 15.</td>
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<tr>
<td>Oct. 15</td>
<td>8</td>
<td><strong>Chapter 14: Equilibria in Acids – Bases Solutions</strong></td>
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<tr>
<td>Oct. 22</td>
<td>9</td>
<td>Chapter 16 Precipitation Equilibria</td>
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| Oct. 29  | 10 | Chapter 16 Precipitation Equilibria  
Proctored Test 2  
- Material from chapters 13, 14, and 16  
- Must be taken from 10/26 – 10/30 (Fri, Sat, Mon, or Tues)  
- Take the test in Test Center and submit your 2nd lab reports. |
| Nov. 5   | 11 | Chapter 17 Spontaneity of Reaction |
| Nov. 12  | 12 | Chapter 17 Spontaneity of Reaction |
| Nov. 19  | 13 | Chapter 18 Electrochemistry  
Virtual ChemLab  
Electrochemistry  
7-1, 2 and 3. |
| Nov. 26  | 14 | Chapter 18 Electrochemistry  
Thanksgiving Day |
| Dec. 3   | 15 | Chapter 18 Electrochemistry  
Virtual ChemLab  
Electrochemistry  
7-1, 2 and 3. |
| Dec. 10  | 16 | Final  
- Material from chapters 17 and 18  
- Must be taken from 12/7-12/11 (Fri, Sat, Mon, or Tues)  
- Take the test in Test Center and attach your lab reports.  
- No late tests accepted. |