**CHEM-101 -- Student Information Form** **Summer, 2012 – 12 J**

Please complete this form and return it to D. S. Chatellier at the end of class.

Name: _____

Local Address: _____

Best telephone number: _____

E-mail address: _____

Major at the University of Delaware: _____

Minor at the University of Delaware: _____

"Who are you? What will you be when you get where you're going?
And what was the reason you wanted to come here at all..."--Jaime Rickert

Tell me about yourself. What are your goals in life? Your career goals? Why? How do you propose to make the world (or the society in which you live) better? How do you see the study of chemistry in general fitting into your plans? Why are you taking a course in chemistry? (I know it's required for many of you--besides that, I mean!) What do you expect this course to be like? What would you like to get out of this course? (Either grade-wise or knowledge-wise!) How do you feel about taking this course? (Excited, nervous, frightened, challenged, etc.) Use the back if necessary.

**CHEM-101 -- General Chemistry** **Summer, 2012 – 12 J**

Instructor: D. S. Chatellier

Office: BRL 233. If I'm in my office, please feel free to drop in! If I'm not in my office, you can either wait for me to return (the signs on my door should tell you when I expect to be back) or leave me a message (include your name and phone number and slide message under my door).
Office phone, with voice mail: 831-8152
e-mail address: danac@udel.edu

Course Supplies (available at the University Bookstore):
Textbook: Burdge, CHEMISTRY, 2nd ed.
Lab Manual: Laboratory Manual for General Chemistry
Eye Protection: Safety goggles are REQUIRED AT ALL TIMES IN THE LAB!
The following are OPTIONAL, but STRONGLY RECOMMENDED:
Lecture Notes: D. S. Chatellier, Chemistry 101 Lecture Notes
Solutions Manual: Burdge, Solutions Manual
Study Guide: Burdge, Study Guide

Approximate Schedule of Discussions, Quizzes, and Examinations:
(All classes meet on weekdays from 1:15 to 2:45 p.m. in BRL 207)

| Week of | Material to be Discussed | Quiz & Exam Schedule |
|---|---|---|
| 6/4 | Burdge – Chapters 1, 2, & 3<br>DSC, pages 1-25, 108-109 | NO EXAM |
| 6/11 | Burdge – Chapters 3, 4, & 5<br>DSC, pages 26 – 50 | EXAM #1 – Monday, 6/11 |
| 6/18 | Burdge – Chapters 6, 7 & 8<br>DSC, pages 51-76 | EXAM #2 – Tuesday, 6/19 |
| 6/25 | Burdge – Chapters 9 & 11<br>DSC, pages 77-100 | EXAM #3 – Tuesday, 6/26 |
| 7/2 | Burdge – Chapter 12<br>DSC, pages 101-107 | EXAM #4 – Tuesday, 7/3<br>FINAL EXAM – to be announced |

PLEASE SEE ME WHEN YOU NEED HELP! The best way to prepare for the examinations is to do as many of the problems in the textbook as you can. The sooner you come to my office, the sooner I can help.

Other Resources Which May Help you in CHEM-101:
a) Old CHEM-101 Exams – to be distributed in class.
b) Tutors – for more information, see Mrs. Staib in BRL 102.
c) UDCapture Videos: http://udcapture.udel.edu/2010j/chem101-010

GOOD LUCK!! Best wishes for a successful semester. PLEASE – BOTHER ME!!
-- D. S. Chatellier

**CHEM-101 -- General Chemistry** **Summer, 2012 – 12 J**

## GRADING POLICIES

The minimum requirements for obtaining a passing grade in CHEM-101 are:

a) Successful completion of at least ten laboratory experiments
b) Successful completion of the final examination
c) Obtaining a total of at least 400 points on the grading scheme outlined below

There are at least 800 points that can be scored in CHEM-101:

a) Examinations (400 points, 50%) – Four 100-point examinations will be given. You are expected to be present for all of them. If you miss an examination, see your instructor. If the absence is excusable (illness, death in the family, jury duty, etc.), your final exam score will be prorated. If the absence is not excusable, your score for that examination will be a ZERO. No "Make-up" examinations will be given, for any reason.

b) Laboratory Experiments (200 points, 25%) – Eleven laboratory experiments are scheduled. Your ten best laboratory scores will be counted toward your laboratory grade. For more information about your laboratory grade, consult your TA.

c) Final Examination (200 points, 25%) -- Details forthcoming. Your score on the final exam will be prorated to account for any excused absences from the other examinations – see (a).

The following grading scheme will be used to assign letter grades:

| Total Points Scored | Grade | Total Points Scored | Grade |
|---|---|---|---|
| 800 - 730 (91.3%) | A | 559 - 530 (66.3%) | C |
| 729 - 700 (87.5%) | A- | 529 - 500 (62.5%) | C- |
| 699 - 660 (82.5%) | B+ | 499 - 460 (57.5%) | D+ |
| 659 - 630 (78.8%) | B | 459 - 430 (53.8%) | D |
| 629 - 600 (75.0%) | B- | 429 - 400 (50.0%) | D- |
| 599 - 560 (70.0%) | C+ | 399 - 0 (0.0%) | F |

Feel free to consult me at any time if you have questions about your grade in CHEM-101.

D. S. Chatellier

**CHEM-101 – General Chemistry** **Summer, 2012 – 12 J**

# Summer Laboratory Schedule

| | |
|---|---|
| **June 6**<br>Wednesday | Check-In, Safety Training<br>2 Density |
| **June 8**<br>Friday | 3 Physical & Chemical Properties |
| **June 11**<br>Monday | 5 Hydrates |
| **June 13**<br>Wednesday | 6 Limiting Reactants |
| **June 15**<br>Friday | 30 Titration |
| **June 18**<br>Monday | 15 Calorimetry |
| **June 20**<br>Wednesday | 9 Trends In The Periodic Table |
| **June 22**<br>Friday | 10 Spectroscopy |
| **June 25**<br>Monday | 11 Lewis Structures |
| **June 27**<br>Wednesday | 12 Using Lewis Structures |
| **June 29**<br>Friday | 8 Gas Laws & Volatile Liquids |
| **July 2**<br>Monday | No Lab – Independence Day |

Any changes in this schedule will be announced in class. Be There!

--D. S. Chatellier

## REGRADING POLICIES

In large, multi-section classes, much of the grading of examinations is done by the teaching assistants. This is a common practice and is often supervised by the professor of the course. Nonetheless, errors in grading sometimes occur. There may be cases in the course of this semester where you may believe that an error has been made in grading your work, and the correction of the error would result in a higher grade for you. The purpose of my regrading policy is to address this situation.

If you believe that an error has been made in grading your examination, you may submit the examination to me for regrading. To do so, simply circle the numbers of the questions that you would like to have me reconsider and return the entire examination to me at the next class meeting. I will reconsider the grading of the circled questions, make any necessary adjustments to your grade, and return the examination to you in class at some future time. It is strongly recommended that you consult the posted answer keys before you submit your exams for regrading.

IT IS A VIOLATION OF BOTH THIS POLICY AND THE UNIVERSITY OF DELAWARE CODE OF CONDUCT TO CHANGE ANSWERS ON YOUR EXAMINATION BEFORE SUBMITTING THE EXAMINATION FOR REGRADING. Resubmitted examinations may be photocopied and compared with photocopies of examinations that were made prior to your receiving your graded examinations in an attempt to circumvent this practice. Students who commit academic dishonesty in this way will be prosecuted through the University of Delaware Office of Student Conduct. (It is strongly recommended that any notes you wish to make to yourself on your graded examination be made in a different color of ink or pencil than the color you used while taking the examination. Should you later decide to submit your examination for regrading, the use of a different color will allow me to focus on your original answer for regrading, and will avoid the possibility of an accidental violation of this policy).

Please let me know if you have any questions at any time about the regrading policies in my classes.

– D.S. Chatellier

CHEM 101 – Chatellier
Mathematics Skills Quiz

Name:
Lab Section Number:_____

Place all answers in the spaces provided below, using the back only if needed.

_____ 1. A gallon of milk weighs 8 pounds. How many gallons are there in a milk can which contains 140 pounds of milk?

_____ 2. $\frac{75}{X} = \frac{1.49}{4}$ What is X?

_____ 3. $\frac{1}{10} \times 25 = \frac{k}{8}$ What is k?

_____ 4. When roller skating, there must be two girls and one boy in each trio. If there are 20 boys and 32 girls, how many trios can they make?

_____ 5. The cargo from three trucks fits into two train cars, with each loaded train car weighing 10.5 tons. What is the total weight of loaded train cars if 18 trucks were unloaded?

_____ 6. $\frac{X}{3} = Y$ *and* $2(10.5)Y = Z$ If $X = 21$, *what is* Z?

_____ 7. Three oranges and two apples are required for each fruit basket. How many complete fruit baskets can be made if we have nine dozen oranges and eight dozen apples?

_____ 8. Dunkin' Donuts sells 200 dozen doughnuts every day. How many individual doughnuts do they sell each hour?

_____ 9. Initially, there is $\frac{1}{2}$ cup sugar in 1 quart of applesauce, but then 2 quarts of unsweetened applesauce are added. What is the final concentration of sugar per quart of applesauce?

_____ 10. $\frac{6}{4Y} = \frac{X}{Y}$ *If* $Y = 4$, *what is X*?

(Source: Keith Ver Beek and Larry Louters, "Chemical Language Skills: Investigating the Deficit", Journal of Chemical Education, volume 68 (May, 1991), pages 389-392.)