CHEMISTRY 1420 – GENERAL CHEMISTRY PART 2

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Office Hours: 1:30 pm–2:30 p.m. Tuesday and Thursday, and by prior arrangement as necessary.
Publisher: McGraw Hill (2013)

Catalog Description
Chemical kinetics, chemical equilibria, solutes and solutions, acids and bases, aqueous equilibria, chemical thermodynamics, electrochemistry, elements of nuclear chemistry.

Prerequisites
The prerequisite for this course is Chem 1410 or equivalent. Please see the instructor if you do not meet the prerequisite

Lecture
There will be two lectures per week, TR 12:30 pm –1:50 pm in Chem 109.

Recitation
The recitation which accompanies this course (Chem 1420.001) meets Friday, 12:00 pm-12:50 pm in Env 130. Each student must be enrolled in Chem 1420.211. Recitation is for the purpose of review, discussion, and answering questions.

Laboratory
The laboratory which accompanies this course (Chem. 1440) is a separate course with a separate instructor and a separate grade.

CHAPTERS TO BE COVERED

Chapter 16: Kinetics: Rates and Mechanisms of Chemical Reactions
Chapter 17: Equilibrium: The Extent of Chemistry Reactions
Chapter 18: Acid-Base Equilibria
Chapter 19: Ionic Equilibria in Aqueous Systems
Chapter 20: Thermodynamics: Entropy, Free Energy, and the Direction of Chemical Reactions
Chapter 21: Electrochemistry: Chemical Change and Electrical Work
Chapter 23: Nuclear Chemistry and Their Applications
Exams Schedule:
- Test grades will not be given out or discussed over the phone. These will be regularly posted on blackboard.
- There will be a 10-15-minute quiz every week (mostly on Thursdays). Eleven quizzes for a maximum 100 points will be considered (lowest one will be dropped). No makeup quizzes will be given.
- Three tests worth 100 points apiece will tentatively be held on September 29, October 27, and December 1. Please plan accordingly. One of your lowest test scores will be dropped for final grade. No makeup test will be offered without evidence of medical excuse.
- Homework problems (6 sets) for a maximum of 100 points.
- The final examination (comprehensive), on December 15 between 10:30 a.m. and 12:30 p.m., will be worth 200 points for a maximum total of 600 points in this course.

Please note: If UNT is closed on the test date, then the test will be moved to the next class date that UNT is open.

Grading Policy and Missing Exam:
- Your grade will be determined entirely by your performance on the weekly quizzes, regular tests, homework and the comprehensive Final exam. THERE ARE NO MAKEUP TESTS SO IT IS IMPORTANT THAT ONE SHOW UP ON TIME FOR EVERY ONE OF THE REGULAR TESTS. You will be allowed to drop the lowest of the first 100-point tests. Test scores of zero that result from cheating cannot be dropped. Should you miss one of the 100 point tests, for whatever reason, you will receive a grade zero for the missed test. Remember that you are allowed to drop the lowest test score and the missed test can then serve as your one dropped test. The 200-point comprehensive final exam grade will not be dropped.
- No examination will be passed out once the first student has completed the examination and left the class room.

Grading Scale:

<table>
<thead>
<tr>
<th>Final percent average</th>
<th>Letter Grade</th>
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<tbody>
<tr>
<td>90 - 100 %</td>
<td>A</td>
</tr>
<tr>
<td>80 - 89 %</td>
<td>B</td>
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<tr>
<td>70 - 79 %</td>
<td>C</td>
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<tr>
<td>60 - 69 %</td>
<td>D</td>
</tr>
<tr>
<td>Below 60 %</td>
<td>F</td>
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Note
The instructor reserves the right to make changes/modifications of the syllabus if needed.

Attendance Policy
Class attendance is required and will be monitored regularly. Students will be dropped for nonattendance after three absences. Students who miss the class are responsible for all the missed class materials that may not be addressed by the instructor in a subsequent class.
Phone Policy: No Phone usages (texting, web surfing etc.) during the class time.

Additional help: Supplemental Instruction
SI Leader: David Flannery; E-mail: dvyflannery@gmail.com
Chemistry Resources Center, Chem. 231

Homework: Working the problems is very important to achieve better understanding of materials taught and good grade in the class. Note: the solution manual is not errors free. Homework (hand written or typed but not photocopied pages, show details of your work) is due week from completing a chapter. Late submission is highly discouraged and will result in partial credit.

Homework problems:
Chapter 16: 2,5,8,10,14,16,21,22,26,29,31,36,39,42,61 and 63 – 16 problems
Chapter 17: 1,3,7,16,21,22,23,25,27,29,34,36,48,49,52,56,58,65 - 18 problems
Chapter 18: 2,4,7,9,11,15,16,25,31,33,35,44,46,50,56,59,61,65,69,72,78,80- 22 problems
Chapter 19: 2,5,8,12,14,18,27,29,46,50,54,56 - 12 problems
Chapter 20: 2,5,6,8,10,12,14,16,28,37,44,46 - 12 problems
Chapter 21: 1,2,3,5,7,14,16,17,18,20,25,27,31,43,44,49,51,57,58,60-20 problems

100 problems for 100 points.
Each problem is worth 1 point

To access Blackboard:
Visit: https://learn.unt.edu/
Login using your EUID and Password
Click on General Chemistry 1420

Download and take a printout of the following files from Blackboard
Periodic Table of Elements
All Reference Material
Basic algebra formulas
You can refer to these documents during weekly quizzes, tests and Finals.

Please always remember your UNT student ID
Disability Accommodations

The Chemistry Department believes in reasonably accommodating individuals with disabilities and complies with university policy established under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (1990) to provide equal access and opportunity. Please communicate with your professor as to your specific needs and/or the office of Disability Accommodation (ODA) (Room 321, Union, 565-4323). See ODA website, http://www.unt.edu/oda, for more details instructions.

Academic Ethics

A high level of ethical conduct will be maintained in this course. Any evidence of an act of academic dishonesty during the exams will result in an automatic F and expulsion from this course. Please adhere to University policies and the UNT Code of Conduct and Discipline with respect to academic ethics and honesty.

http://www.unt.edu/csrr/development/dishonesty.html
http://vpaa.unt.edu/academic-integrity.htm

The term "cheating" includes, but is not limited to:

- Use of any unauthorized assistance taking tests or examinations.
- Acquisition, without permission, of tests, notes or other academic material of a similar nature belonging to a faculty member or staff member of the University:
- Any other act designed to give a student an unfair advantage

Disruption of Class

Disruption of classes is forbidden by the Student Code of Conduct and will result in dismissal of the student from the classroom. Disruption of classes includes, but is not limited to, horseplay, chatting socially, noisy or other offensive behavior that is disturbing to fellow classmates, and operation of cell phones.

Turn-off the cell phones before entering the class room.

No talking while lecturing in progress, no laptops, no IPODS, no headphones.
No hats on test day.
No leaving classroom when class is in session or during an exam.