Survey of Chemistry I
Chemistry 1212 K
Course Syllabus Spring 2014
Instructor: Dr. Jyotsna Thota.
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Email is the best way to communicate with the instructor. While sending an email, write the name of the course and then the subject. For example if you want to write about arranging an appointment, the subject should be “1212- appointment”. Please send email from gsu email.

Lecture: MWF → 12.00 – 12.50 PM (PSC 255)
Office hours: MW 10.30 – 11.30 PM; Fridays by appointment

Overall course objectives: By the end of this course students will be able to understand, answer questions and work out problems involving the following topics
a. Intermolecular forces
b. Solutions, principles of solubility, different types of solution concentrations and their calculations.
c. Reaction rates and rate Laws
d. Dynamic equilibrium, equilibrium constants, LeChatelier’s Principle
e. Theories of acids and bases, strengths of acids and bases, pH and buffers, titration and pH curves
f. Spontaneous and non-spontaneous process; changes in entropy; laws of thermodynamics and changes in free energy
g. Oxidation-reduction reactions; cells and cell potentials
Class schedule:

<table>
<thead>
<tr>
<th>Week of …</th>
<th>Monday</th>
<th>Wednesday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 13</td>
<td>Introduction</td>
<td>Review 1211</td>
<td>Review 1211</td>
</tr>
<tr>
<td>Jan 20</td>
<td>-------</td>
<td>Chp 11</td>
<td>Chp 11</td>
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<tr>
<td>Jan 27</td>
<td>Chp 11</td>
<td>Chp 12</td>
<td>Q1; Chp 12</td>
</tr>
<tr>
<td>Feb 3</td>
<td>Chp 12</td>
<td>Chp 13</td>
<td>Chp 13</td>
</tr>
<tr>
<td>Feb 10</td>
<td>E1</td>
<td>Chp 13</td>
<td>Chp 13</td>
</tr>
<tr>
<td>Feb 17</td>
<td>Chp 14</td>
<td>Chp 14</td>
<td>Q2; Chp 14</td>
</tr>
<tr>
<td>Feb 24</td>
<td>Chp 14</td>
<td>Chp 15</td>
<td>Chp 15</td>
</tr>
<tr>
<td>Mar 3</td>
<td>E2</td>
<td>Chp 15</td>
<td>Chp 15</td>
</tr>
<tr>
<td>Mar 10</td>
<td>Chp 15</td>
<td>Chp 15</td>
<td>Q3; Chp 16</td>
</tr>
<tr>
<td>Mar 17</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>Mar 24</td>
<td>Chp 16</td>
<td>Chp 16</td>
<td>Chp 16</td>
</tr>
<tr>
<td>Mar 31</td>
<td>E3</td>
<td>Chp 16</td>
<td>Chp 17</td>
</tr>
<tr>
<td>Apr 7</td>
<td>Chp 17</td>
<td>Chp 17</td>
<td>Q4; Chp 17</td>
</tr>
<tr>
<td>Apr 14</td>
<td>Chp 18</td>
<td>Chp 18</td>
<td>Chp 18</td>
</tr>
<tr>
<td>Apr 21</td>
<td>Chp 18</td>
<td>Chp 18</td>
<td>E4</td>
</tr>
<tr>
<td>Apr 28</td>
<td>Mock Final</td>
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Final Examination: May 5, 2014 at 10.45 AM. Please arrive at the classroom at 10.00 AM.

Point distribution

Exams (75 points each) (Best 3 of 4) 225
In-class quizzes (25 points each) (Best 3 of 4) 75
ASA and HW 100**
Laboratory 200*

Final exam (ACS standardized test) 200

Total: 800

* You must attend your laboratory section – at the end of the semester your laboratory instructor will give me a list of students in their section and their laboratory grades.

**Mastering Chem ASA and HW points will be calculated based on the percentage of homework credits. If homework credit was 100% hw points, 85 lecture points will be awarded.

Grading:

760 – 800 (95%-100%): A+
720 – 759 (90%-94%): A
696 – 719 (87%-89%): A-
680 – 695 (85%-86%): B+
640 – 679 (80%-84%): B
624 – 639 (78%-79%): B-
584 – 623 (73%-77%): C+
520 – 583 (65%-72%): C
480 – 519 (60%-64%): C-
456 – 479 (57%-59%): D
<456 (57%): F
No make-up (or advance) examination or quizzes will be given. Missed examinations and quizzes will be recorded as a zero. The final examination is a standardized test (and multiple choice) provided by the American Chemical Society (ACS) and is nationally normalized.

To receive a passing grade in this course, the student MUST

1. Take the final exam
2. Meet certain minimum requirements in the laboratory portion of the course (see lab manual).

Reading assignments: At the end of every lecture, the instructor will allot reading assignments from the textbook. Some of the questions from the quizzes and exams will be directly taken from reading assignments. It is in the best interest of the students to complete the reading assignments on time.

Mastering General Chemistry Assignments (ASA and HW): Should be submitted online using “Mastering General Chemistry“. Use Course ID: THOTA1212SP2014. Please register after Jan 13, 2014. While registering for the HW, choose Chemistry: A Molecular Approach, 3/E by Nivaldo J. Tro. It is in the best interest of the students to check the due dates and submit ASA on time. ASA will not be opened once it closes down on the due date.

Examinations:
Exams will have multiple choice questions. No makeup or advance exams will be given. Missed examinations will be taken as a zero.

Quiz: Quizzes will not contain multiple choice questions. No makeup or advance quizzes will be given. Missed quizzes will be recorded as zero.

Laptops in classroom:
Some students use laptop computers to take notes in classroom. Such students have to sit in the first row of the classroom. Laptop computers should be used for taking notes ONLY. They should not be used for any other purposes.

Desire2Learn (D2L): All important announcements, answer keys and scores will be on D2L. It is in the best interest of the students to log into D2L two times a day to make sure that they are up to date with the course proceedings.

Talking in the classroom:
It is extremely distracting for the students and the instructor if students are talking (even whispering) in classroom. Please understand that every student has a right to ask questions in classroom. Please do not make inappropriate facial expressions or talk when other students are asking questions. It is also not a good idea to “cut-in” the conversation between the instructor and a student. Please be patient and let the instructor and the student finish the conversation before moving on to the next topic.
**Leaving class early or arriving late to class:**
If you need to leave the classroom early for any reason, please make sure to sit close to the door and leave the room as quietly as possible so as to not disturb other students. Arriving late to the classroom is not permitted. In case a student arrives late for an exam or quiz, no extra time will be given. If there is a valid reason for late arrival, for example an emergency, the student should discuss it with the instructor at the earliest.

**Class Attendance and Preparation:** Students are responsible for class preparation and for any material presented in the course of the lectures whether or not it is contained in the textbook. Chemistry is a highly structured course, with each new topic based on others previously developed. Thus it is critical for students to keep consistently up-to-date in their readings and assignments. To fall even one class period behind is to risk considerable difficulty in mastery of future material.
Therefore students should:
1) review previous material, especially if it was not perfectly understood
2) complete reading assignments *before* the lecture in which the topics are covered, or at least immediately after the lecture
3) complete assigned problems and exercises on time, with an emphasis on mastery of concepts and principles involved rather than looking for a formula that will give the expected answer (*remember that the question can be asked in a different way and not just with different numbers!*)

Students are expected to attend all classes and are responsible for all assignments and materials presented. In the event of unavoidable absences, it is the responsibility of the student to find out what materials were covered or what assignments made in his or her absence.

The University requires that faculty members must, on a date after the midpoint of the course to be set by the Provost (or designee)
1. give a WF to all those students who are on their rolls but no longer taking the class and
2. report the last day the student attended or turned in an assignment.

**Some Examples of Unacceptable Student Conduct:**
- Not following the testing procedures as instructed.
- Talking while your professor is lecturing.
- Arguing with the professor about student conduct.
- Not sitting up straight with paper directly in front of you during an exam.
- Not keeping your scantron or exam papers covered during an exam.
- Using a disrespectful tone of voice, harsh words or profanity.
- Making inappropriate gestures of any kind.
- Leaving class before the lecture is over.
- Letting your cell phone ring audibly during a lecture or exam.
- Having a cell phone available during a quiz or test.
- Not having your student ID for a quiz or test.
• Arriving late for lecture or for an exam.
• Allowing your laboratory data or answers to be copied.

Cell Phones and Beepers: In consideration of your classmates, turn off all sound alerts during every lecture and examinations. If you must have the cell phone during the daily lectures, please set it to ring on vibrate mode (silent). If you need to be on call during an exam, please inform the instructor and leave the phone with the instructor.

Chemistry Department Policy on Student Conduct and Integrity: The Georgia State University Policy on Academic Honesty is in force in this course. This includes but is not necessarily limited to infractions in the area of plagiarism, cheating on examinations, unauthorized collaborations, falsification, and multiple submissions. This policy is published in On Campus: the Student Handbook, which is available to all members of the university community.

All examinations must represent your individual effort, with no unauthorized aid. To either give or receive unauthorized information during an examination is cheating, as is the use of any unauthorized supplementary material. In addition all laboratory work performed in conjunction with this course must represent your individual effort. Only original data obtained by your own in-laboratory experimentation are permitted to be used, except when expressly authorized by your laboratory instructor. Data from supplementary sources, handbooks, reference literature, etc. must be clearly referenced (title, author, volume, pages(s), etc.). Falsification or destruction of data constitutes cheating as well. Conduct disruptive of class, examinations, or laboratories or falsification or destruction of information related to chemistry courses will be taken as a violation of the policies of the Board of Regents of the University System of Georgia and the Georgia State University Student Code of Conduct, Section 6.0. Any suspected offenses may be referred to the Chairman of the Department or the Dean of Students for appropriate disciplinary action.

The foregoing provides a general plan for the course, deviations from which may be necessary. The instructor will announce any such changes in class.

How to succeed in this course?
Please follow these steps to succeed in this class:
1. Form a study group (3 or 4 students per group).
2. Organize your notes. This depends on individual student organization skills. One of my previous students used one notebook but color coded her notes. Her class notes were in black pen, study notes in blue and office hour notes in green. Another student had three note books for class, home and office hours.
3. Study ahead of class.
4. After each class discussion, read through discussed topic/s in the text book and make notes. Compare the notes to your class notes. Concentrate on the similarities and differences. Write ALL your questions down.
5. Work on questions based on the topic at the end of the chapter. Mark all a questions you could not answer.
6. Meet your study group for two hours every week. Discuss all the topics, questions
and consolidate all your questions.
7. Go to instructor and TA office hours (with your group) and discuss all your questions.
8. Work on practice exams and quizzes.
9. After the quiz/exam is finished, make sure to check the answer key and solve all the questions where your answers were wrong.
10. A student needs to study 10 Hrs/week to succeed in this class.