LECTURE SCHEDULE CH 113.4 FALL 2015  
DR. STREKAS  
Monday, Wednesday 1:40-2:55 pm in Remsen Hall 101  
Note: Examination dates are fixed—but chapter coverage may vary somewhat

[NOTE: A grade of C (NOT C-minus) in this course is required to proceed to chem. 114.4]

<table>
<thead>
<tr>
<th>Date</th>
<th>Chapter</th>
<th>Topic</th>
<th>Assignment Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUG 31</td>
<td>Chapter 1</td>
<td>Chemical Foundations</td>
<td>9/20</td>
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<tr>
<td>SEP 2</td>
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<tr>
<td>SEP 9,10</td>
<td>Chapter 2</td>
<td>Atoms, Molecules and Ions</td>
<td>9/20</td>
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<tr>
<td>SEP 16,28,30</td>
<td>Chapter 3</td>
<td>Stoichiometry</td>
<td>10/20</td>
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**SEPT 21 (M) Exam #1**  Chapters 1 and 2

**OCT 5,7,14**  Chapter 4  Types of Chemical Reactions and Solution Stoichiometry  (on-line assignment due 10/20)

**OCT 21 (W) Exam #2**  Chapters 3 and 4

**OCT 19,26**  Chapter 5  Gases  (on-line assignment due 11/10)

**OCT 28**  Chapter 6  Thermochemistry  (on-line assignment due 11/10)

**NOV 2,4**

**NOV 11 (W) Exam #3**  Chapters 5 and 6

**NOV 9,16,18**  Chapter 7  Atomic Structure and Periodicity  (on-line assignment due 12/6)

**NOV 23,25,30**  Chapter 8  Bonding: General Concepts  (on-line assignment due 12/6)

**DEC 7 (M) Exam #4**  Chapters 7 and 8

**DEC 2,9,14**  Chapter 9  Covalent Bonding: Orbitals  (on-line assignment due TBA)

**FINAL EXAM:**  Wed Dec 23 1:45-3:45 pm in RE 101  Comprehensive 2 hour American Chemical Society Exam covering Chapters 1 through 9  (70 multiple choice questions)

[NOTE: A grade of C (NOT C-minus) in this course is required to proceed to chem. 114.4]

**MISSED EXAMS POLICY:**  If a scheduled examination is missed, a written explanation signed by the student must be handed to Dr. Strekas by the end of the next class lecture. If the excuse is accepted all make-up exams will be given during the last week of scheduled classes.
Chemistry 113.4-General Chemistry 1
Syllabus-Fall 2015

Dr. Thomas C. Strekas
Office: Science Building B306
thomas.strekas@qc.cuny.edu
Office Hours: M, W 11 am-12 pm or by appointment (e-mail)

GENERAL
Chemistry 113.4 is the first semester of a two-semester science majors/pre-health professions level introductory college chemistry course. The lecture meets for 3 credit hours weekly (actually two 75 minute periods per week) and the recitation meets for one 50 minute period weekly. Dr. Strekas will lecture on Monday and Wednesday, and each of you will have an individual recitation instructor as well. For this course the recitations are scheduled on various days and at various times, (check schedule for day, times and room). The laboratory course 113.1 is a separate co-requisite for chemistry 113.4 and is administered and graded separately.

In chemistry 113.4 the student will develop an understanding of basic atomic structure, including the rationale for the formation of ions and molecules. Students will learn basic skills involved in making measurements, understanding the scientific method, and become skilled in working with balanced chemical reactions and chemical stoichiometry, including but not limited to acid-base, oxidation-reduction and precipitation reactions. Students will master the gas laws, and develop an understanding of the energetics of chemical reactions.

LECTURE
Students are expected to attend all lectures. Prior to each lecture the students are expected to read the material in the textbook, and to be familiar with the concepts in the readings. The purpose of lecture is to summarize the material, highlight important concepts and provide illustrative examples of these concepts including solving typical problems. The attached lecture schedule is tentative and any variations that may arise will be addressed in class during lecture and via Blackboard postings.

Problem solving is a critical aspect of this course. By working to solve problems student will come to better understand and master the various concepts. Exams will consist of numerical problems to be solved as well as multiple-choice questions. Homework assignments on the OWLv2 on-line homework system are designed to provide instructional support for the course material, but are also a significant (15%) component of the final grade. I encourage students to work in groups to solve problems. However, you must do the final entry to the homework system yourself.

RECITATION
The recitation is designed as a problem solving session. There will be frequent recitation quizzes. I will be requiring the instructors to give this quiz in the first 10 minutes of recitation, so you must arrive on time or you will have less time for the quiz. Recitation will provide 10% of your course grade as well, based mainly on the quiz results. Students are expected to participate in recitation by coming prepared to solve problems and/or ask questions regarding the solutions to problems indicating that they have arrived at a partial solution prior to recitation.
REQUIRED COURSE MATERIALS

1. *Chemistry, Ninth Edition*, Steven S. Zumdahl and Susan A. Zumdahl (Brooks/Cole 2010). This text will be used for both chemistry 113.4 and 114.4 (General Chemistry 2). The full text includes 22 chapters. The publisher has produced a custom paperback version for QC, which is bundled with the Student Access Code for the OWLv2 homework site. Only the custom paperback text will be stocked in the QC bookstore. Students may of course obtain the textbook from other suppliers. NOTE: Only new textbooks include a student access code for the OWLv2 (and other associated) on-line materials.

2. **On-Line Homework Site:** OWL. See posted documents ‘On-Line Homework’ on Blackboard site. Course Key: E-X7FG5HNRHKWH

3. A scientific calculator (or a graphing calculator) is needed. During exams, no ‘smart phone’ based calculators are allowed, so be sure to purchase a separate calculator.

CHEM 113.4 GRADES

All questions regarding overall grade must be addressed to Dr. Strekas, not the recitation instructors. The final semester grade will be calculated as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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<tbody>
<tr>
<td>Homework (OWL)</td>
<td>150 (15%)</td>
</tr>
<tr>
<td>Recitation (quizzes/participation)</td>
<td>100 (10%)</td>
</tr>
<tr>
<td>Course Exams (4)(each exam 125)</td>
<td>500 (50%)</td>
</tr>
<tr>
<td>Final Exam (American Chemical Society Nationally Normed Exam)</td>
<td>250 (25%)</td>
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<tr>
<td>TOTAL:</td>
<td>1000 (100%)</td>
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CLASS POLICIES

**Attendance:** You are required to attend all exams, lectures and recitations, and to arrive promptly at the start time. NO MAKE-UP quizzes or examinations will be automatically provided. It is your responsibility to contact the lecturer (Dr. Strekas) or recitation instructor BEFORE the meeting if you cannot be present for an exam or quiz. If using e-mail, notification a MINIMUM of 3 hours prior to the meeting is required. WRITTEN (NOT E-MAIL !) documentation (e.g. doctor’s note) is then required within one week to avoid a grade of ZERO (0). If I approve, all makeup exams will be given during the last scheduled week of classes.

Note also that all on-line homework assignments will have a deadline date. No extensions will be granted for missed homeworks.
**Academic Dishonesty**

Academic dishonesty is one of the most serious offenses within the academic community. Acts of academic dishonesty include, but are not limited to, plagiarism and/or cheating on exams and papers, sabotage of research materials, the purchase or sale of academic papers, and the falsification of records. Any student who engages in an activity that is academically dishonest is subject to disciplinary charges, as is any student who knowingly aids another who engages in them. The City University Policy on Academic Dishonesty was adopted by CUNY’s Board of Trustees in June 2004; it includes definitions and examples of academic dishonesty, methods for promoting academic integrity, and procedures for the imposition of sanctions for various violations of this policy, including failing grades, suspension, and expulsion.

Note: During examinations, ONLY stand-alone scientific calculators or graphing calculators will be allowed. No other electronic devices (cell phones, tablet computers, i-pods etc.) will be allowed even if they contain apps which serve as calculators. The ability to access other information via these devices makes the reason for this regulation obvious.

[The QC ‘Academic Integrity Violation Form’ will be posted on the Chemistry 113.4 Blackboard page for your inspection. It lists a number of examples of what specifically is considered to be academic dishonesty]