**LECTURE SCHEDULE CH113.4 Spring 2017**

Dr. Gloster (Office Remsen 210)-----Office Hour Wednesday 12:30-1:30

Lecture:  Tuesday, Friday  9:15-10:30 AM----Remsen Hall 101  

Note: Examination dates are fixed but chapter coverage may vary

Homework for each Chapter is due by 9:00 PM on the day before the Exam for that Chapter

A final grade of C is a prerequisite to enroll in Chem114.4

<table>
<thead>
<tr>
<th>Date</th>
<th>Chapters</th>
<th>Topics</th>
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</thead>
<tbody>
<tr>
<td>Jan 31, Feb 3</td>
<td>Chapter 1</td>
<td>Keys to the Study of Chemistry</td>
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<tr>
<td>Feb 7, 10</td>
<td>Chapter 2</td>
<td>The Composition of Matter</td>
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<tr>
<td><strong>FEB 17 (FRIDAY)</strong></td>
<td><strong>EXAM I</strong></td>
<td><strong>CHAPTERS 1 AND 2 (HOMEWORK ASSIGNMENTS DUE 9:00 PM 2/16)</strong></td>
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<tr>
<td>Feb 14, 21, 24</td>
<td>Chapter 3</td>
<td>Stoichiometry of Formulas and eq.</td>
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<tr>
<td>Feb 28; Mar 3, 7</td>
<td>Chapter 4</td>
<td>Three Major Classes of Chemical Reactions</td>
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<tr>
<td><strong>MAR 14 (TUESDAY) EXAM II</strong></td>
<td><strong>CHAPTERS 3 AND 4 (HOMEWORK ASSIGNMENTS DUE 9:00 PM 3/13)</strong></td>
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<tr>
<td>Mar 10, 17</td>
<td>Chapter 5</td>
<td>Gases and the Kinetic Molecular Theory</td>
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<tr>
<td>Mar 21, 24</td>
<td>Chapter 6</td>
<td>Thermochemistry: Energy Flow and Change</td>
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<tr>
<td><strong>MAR 31 (FRIDAY)</strong></td>
<td><strong>EXAM III</strong></td>
<td><strong>CHAPTERS 5 AND 6 CHAPTERS (HOMEWORK ASSIGN. DUE 9:00 PM 3/30)</strong></td>
</tr>
<tr>
<td>Mar 28; Apr 4</td>
<td>Chapter 7</td>
<td>Quantum Theory and Atomic Structure</td>
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<td>Apr 7, 21</td>
<td>Chapter 8</td>
<td>Electron Configuration and Chemical Periodicity</td>
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<tr>
<td>Apr 25, 28</td>
<td>Chapter 9</td>
<td>Models of Chemical Bonding</td>
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<tr>
<td>May 2, 5</td>
<td>Chapter 10</td>
<td>The Shapes of Molecules</td>
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<tr>
<td><strong>MAY 9 (TUESDAY)</strong></td>
<td><strong>EXAM IV</strong></td>
<td><strong>CHAPTERS 7, 8, 9, 10 (HOMEWORK ASSIGN. DUE 9:00 PM 5/8)</strong></td>
</tr>
<tr>
<td>May 12, 16</td>
<td>Chapter 11</td>
<td>Theory of Covalent Bonding</td>
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**TENTATIVE FINAL EXAM:**

May 19th 8:30-10:30  Comprehensive 2 hour American Chemical Society Exam

Chapters 1 through 11 (70 Questions....all Multiple Choice)

Missed Exam Policy: To be considered for an excused absence, you must notify me by email a minimum of 3 hours before the exam and you must deliver a written explanation to me within one week (eg. a Dr. note). If your absence is excused, a makeup exam will be given during the week of classes.
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. Gloster will lecture on Tuesday and Friday, and each of you will have an individual recitation session 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 McGraw-Hill Connect 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

   Silberberg and Amateis (McGraw Hill 2015). This text will be used for both
   chemistry 113.4 and 114.4 (General Chemistry 2). The full text includes 24 chapters.
   This course will cover Chapters 1 through 11, inclusive. The electronic version of the
   textbook will be provided along with the student registration for the on-line
   homework.

2. **On-Line Homework Site: McGraw Hill Connect.** See the last page of this
   syllabus for details. The URL below will take you directly to the course registration
   page:


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

The final semester grade will be calculated as follows:

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<thead>
<tr>
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<th>Total Points</th>
<th>%</th>
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<tbody>
<tr>
<td>Homework (Connect)</td>
<td>150</td>
<td>15</td>
</tr>
<tr>
<td>Recitation (quizzes/participation)</td>
<td>100</td>
<td>10</td>
</tr>
<tr>
<td>Course Exams (4) (each exam 125)</td>
<td>500</td>
<td>50</td>
</tr>
</tbody>
</table>
| Final Exam (American Chemical Society
 Nationally Normed Exam)     | 250          | 25 |
| TOTAL:                      | 1000         | 100|
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 (Gloster) 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 homework assignments.

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, ipods 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 BOOK, THE HOMEWORK, THE WEBSITES

For this course you will be required to purchase McGraw-Hill Education Connect® access (and you get ALEKS Access for free) Chemistry: The Molecular Nature of Matter and Change 7th edition by Martin Silberberg and Patricia Amateis. You are not required to have a print text and please be aware if you purchase a used textbook you will still need to purchase Connect access (which includes access to the eBook).

Connect and ALEKS Access Cards can be purchased together at a discounted rate on two URL’s:

One-Semester Access to ALEKS and Connect ($75.00):

Two- Semester Access to ALEKS and Connect ($125.00):

If you would like a print version of the text to accompany the eBook in Connect you can purchase a loose leaf text for $40.00 by visiting:

**Please note, a print-upgrade option is available via Connect and via ALEKS, but priced at $60.00


To get started, go to the Connect Section URL http://connect.mheducation.com/class/d-gloster-spring-2017-chem-1134 and click Register Now. Next you will need to enter your email address and click Submit. Enter your Connect Registration Code (provided on access card shipped to you, after purchasing from one of above sites), enter the code and click Submit. If you haven’t received your Registration Cards yet, you can use the complimentary access for two weeks, but be sure to purchase access as above immediately, as it will take 7-10 business days to ship. Complete the remaining steps to finish registering for Connect. Do NOT Purchase Access from Connect by clicking the ‘Buy Now’ option, you will not have access to ALEKS and will pay double.
This is what you will see when you activate Gloster’s URL: