COURSE INFORMATION: GENERAL COLLEGE CHEMISTRY I

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WWW: http://www.chem.uic.edu/fetzer/chem112
LECTURE: 9 - 9:50AM, M-W-F, Room 250 SES
Office hours: 201 SES–Science Learning Center(tba)

COURSE MATERIALS

Laboratory: Chemistry 112/116 Laboratory Manual.

You are also required to purchase splash goggles (not just standard eyewear) These are for sale at the bookstore or through the American Chemical Society Student Affiliate in SEL during week 1.

COURSE GOALS: Chemistry 112 is the first of a two-semester course in general chemistry. The topics for this course fall under the heading "Reaction and Equilibrium Analysis." You will learn how chemists characterize chemical substances and the stoichiometry of reactions. Finally, you will study how chemistry is used to describe systems in or approaching a state of equilibrium.

COURSE REQUIREMENTS:
Registration: Proper registration requires concurrent registration in the lecture and in a paired lab/discussion section. You may only attend those lab sections for which you are registered. This is a safety requirement that cannot be waived by anyone, even your TA. Students attending a lab section for which they are not registered will be dismissed from the lab. Students with disabilities who require accommodations for access and participation in this course must be registered with the Office of Disability Services (ODS). Please call ODS at 312/413-2103 (voice) or 312/413-0123 (TTY

Pre-Requisites: To enroll in chemistry 112, 1) students must have placed into chemistry 112 on the basis of their performance on the chemistry placement exam., or 2) must have successfully completed Chemistry 101 with a final grade of C or better. A college algebra math proficiency is required for successful completion of this course.

Add/drop Any student wishing to register for this course after the first week of the semester must obtain permission from the instructor. Students may drop courses without penalty during the first ten days of the semester. Between week 3 and Friday of week 6, LAS undergraduates are entitled to a total of four optional late drops for the duration of their enrollment in LAS. Optional late drops require an appointment with an LAS advisor (996-3366).

COURSE COMPONENTS

Lecture: There are three scheduled lectures each week, excluding designated holidays. (See Course Schedule) The lectures contain explanations and examples of general chemistry concepts and announcements necessary to your mastery of Chemistry 112 topics. You are immediately responsible for all in-class handouts and announcements. As exam topics reflect lecture discussions, final grades are strongly correlated to lecture attendance. Attendance at lectures is mandatory for your successful completion of the course.

Exams: There are four 50-minute exams (regular class period, 250-SES) and a final exam at the end of the semester.

No makeups will be given for any missed exam or quiz. University regulations require that, if you foresee that you will miss a scheduled exam for religious reasons, you must notify the instructor within the first two weeks of the semester. The final exam is cumulative and includes lab questions.

Discussion. The discussion period (50 minutes weekly) is led by a teaching assistant trained in group interactions. It provides a structured time and place in which to clarify topics and concepts covered in lecture and in lab. It also may include a one-question quiz based on the previous week’s homework each week.

Laboratory: There are ten regular laboratory experiments and four lab practicals, a total of 14 labs. Each lab is preceded by a pre-lab quiz. Questions from the lab will be included on your exams.

Homework: Homework is assigned each week in the form of on-line problems from Chemistry NOW-CD for this is included with the textbook-the homework problems are found at (http://now.brookscole.com/kotz6e)and must be completed before the deadline specified in the assignment.

Quizzes. There are quizzes in discussion and in lecture (using a personal response system-more on this later).
**GRADING**

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<thead>
<tr>
<th>Component</th>
<th>Points</th>
<th>Percentage</th>
<th>Total</th>
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<tbody>
<tr>
<td>Three 100-point hourly exams</td>
<td>300</td>
<td>33.2%</td>
<td>905</td>
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<tr>
<td>Final exam</td>
<td>200</td>
<td>22.2%</td>
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<tr>
<td>5 full laboratory reports @ 12</td>
<td>60</td>
<td>6.6%</td>
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<tr>
<td>5 brief lab reports @ 8</td>
<td>40</td>
<td>4.4%</td>
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<tr>
<td>four lab practicals @ 25</td>
<td>100</td>
<td>11.0%</td>
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<tr>
<td>13 quizzes @ 5</td>
<td>65</td>
<td>7.2%</td>
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<tr>
<td>14 Class participation @ 5</td>
<td>70</td>
<td>7.7%</td>
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<tr>
<td>Fourteen homework assignments @ 5</td>
<td>70</td>
<td>7.7%</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>905</strong></td>
<td><strong>100.0%</strong></td>
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Exams = 55.4%

Labs = 22.0%

Qz-participation = 14.9%

HW = 7.7%

**Minimum performance:** Regardless of the overall grading scheme, you must satisfy two performance requirements in order to pass: 1) your grade on the exams (hourly + final) must total at least 60% and 2) you may not miss more than two lab assignments. These are *not excused* and will count as zero. Lab assignments consist of attending and doing the lab experiments plus handing in the required written lab report.

**Missed Labs.** There are no makeup labs; missed labs count as a zero. This is a lab course; missing more than two labs results in a failing grade. If you miss a lab because of circumstances beyond your control, or if you cannot meet the full requirements of the course for an extended period or time, contact your instructor for advice on how to proceed.

**Missed exams.** If you miss an exam due to serious illness or a comparable emergency, *notify me that day*, and bring documentation (e.g., a note from a doctor) to me as soon as possible. *We will verify the excuse in many cases.* If you present a justifiable reason for missed work, the grade for that item will be made up by averaging other grades in that component of the course over the whole semester. Missed exams generally result in a lower grade on the final exam when students do not put in the effort to learn the material from that exam.

**Cheating.** Academic dishonesty in any form will not be tolerated in this course. Any student caught cheating will be immediately assigned a failing grade. Further disciplinary action will then be discussed with the department office and the Dean.

**COMMUNICATION AND HELP**

Most students find that this course moves very quickly and that it is easy to fall behind. We recommend that you form study groups to help keep you current with the class schedule. Your ability to explain a problem or concept to someone else is a good test of your own understanding.

**Peer-led study groups:** a limited number of peer-led study groups are available through the Science Learning Center. More details forthcoming.

**Science Learning Center (201-SES):** This special study/help center is available to general chemistry students school days between 8 AM and 5:00 PM. All chemistry TAs as well as TAs in the other sciences schedule their office hours in the SLC. Peer-led study groups (strongly recommended) will also meet here. Tutoring schedules will be posted on the bulletin board in the SLC by the end of the second week.

**Electronic Mail Communication:** You may usually reach me through electronic mail on the UIC computer system. Computer accounts are free for all students. If you do not have an account, call the computer consultants at 3-8080. There is a web page (address above) for this course. Refer to it for copies of lecture handouts, homework assignments, course policies, TA information, as well as other pertinent information.