CHM 031- Spring 2015 – 4 credits
Chemical Equilibrium in Aqueous Systems

Lecture: MWF 9:10 – 10:00 am in NV 002
Lab: M PM, T AM, W PM, R AM, or F PM in STEPS 180 or 190
Dr. Rebecca S. Miller
Office: MUDP 793
Office hrs: M 1:30 – 3 pm, W 10-11 am, R 11-noon or by appointment
email: rsm4@lehigh.edu
Phone: 758-3676

Other class materials: Scientific calculator (required) – bring to every class.
Lab notebook & goggles (required)
Access to coursesite (required)

I. Course Structure

**Lecture** sessions are designed to clarify the concepts covered in this course and provide examples of what is expected of you. Attendance is expected and you are responsible for all material, experiments, and problems covered in class. The *textbook* is an important part of this course. The sections to be read are listed on the daily schedule. I recommend that you read the text *before coming to class.*

**Lab** sessions are assigned with this class. Every student in this class must be registered for both the lecture and the lab session of chem 31. Your course grade in this class will be composed of your work in both lecture (75%) and lab (25%).

Information about the lab portion of the class is provided in a separate document. Please read the information carefully and ask if you have any questions. **Attendance in the laboratory is mandatory.**

II. Class Assignments

One of the goals of this class is to teach students problem solving skills. The course content in CHM 31 is very different from CHM 30. CHM 31 is not a survey course – we will study topics with much more depth than in CHM 30. We will spend much of lecture time working problems and you will spend much time outside of lecture working problems – stay current with the material – attend every lecture and don’t be afraid to ask questions!!

**Writing Assignments** (WAs) are unannounced opportunities for you to test your understanding of class material. The format of individual writing assignments will vary, but each assignment will usually be worth 10 points. You accumulate WA points throughout the semester – they are 6% of your grade.

**Homework assignments** will be given through Smartwork. Registration instructions are posted on coursesite. Homework is assigned for each chapter with an announced deadline. After the deadline, the assignment is graded and the assignment becomes available to use as a study guide. Instructions will be given in class about how to get the assignments and how to submit them. **Note: for CHM 31 homework assignments, there will be a penalty applied for multiple attempts on multiple choice questions. For problems involving calculations or multi-steps, multiple attempts can be made without penalty.**

**Hourly examinations** will be held on the following Wednesdays: 02/18, 03/25 and 04/22 – with a start time of 4:10 pm. The location for these exams is Neville 1 auditorium - please note these exams are OUTSIDE OF LECTURE TIME. Attendance at all exams is mandatory.
Exams will last 60-75 minutes and will consist of multiple choice and written problems. You are expected to bring a calculator (cell phones, PDAs or other electronics are not permitted for use during exams) and your university ID for all exams.

The **final exam** for this course is a comprehensive exam scheduled by the Registrar. More information about date/time/location will be given at a later date. The final exam will **NOT** be given before the scheduled day.

**Make-up/Excused Absence Policy**

Students who will not be able to take an exam at the scheduled time due to an irresolvable conflict with a **major** responsibility must provide some written documentation to verify the conflict. This situation may occur for students on official university business, including athletes. Depending on the circumstances, the exam may be given at another arranged time. Approval must be obtained from Dr. Miller **one week** before the scheduled test date.

Students who do not take an exam due to illness, car accident, or similar extreme circumstance should inform Dr. Miller (phone, email or in person) of their difficulties within **24 hours of the missed exam**. These difficulties must be documented by a Dean’s note, physician’s note, accident report, court papers, etc. No make-up exams will be given and excused absences from exams will be given at the discretion of Dr. Miller. Students must bring written documentation describing their absence and complete an Absence Report with Dr. Miller in all cases of missed exams.

**III. Points to Consider**

**Punctuality** – Class will begin promptly at 9:10 am. If you arrive late, please enter the lecture room quietly.

**Professional conduct** – It is imperative that all students conduct themselves in a professional manner. I invite students to ask questions at any time during lecture – for clarification, if you cannot read the board, if you need something repeated, etc. I treat all students with the full respect that they deserve and I expect the same courtesy in return. Anyone disturbing me during lecture is also disturbing fellow classmates and will be asked to leave. Since this lecture is relatively small, I expect all students to be actively engaged in lecture. This means that students should not be working on other course assignments, surfing the web or texting and chatting with fellow classmates during lecture time. If this becomes a problem, you will be asked to leave lecture. **In addition, please make sure that all cellular phone are silenced during lecture time.**

**IV. Course Grades and Grading Policies**

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<thead>
<tr>
<th>Course Points</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Labs</td>
<td>25%</td>
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<tr>
<td>Hour exams (3)</td>
<td>13% each = 39% total</td>
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<tr>
<td>Final</td>
<td>25%</td>
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<tr>
<td>Homework</td>
<td>5%</td>
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<tr>
<td>Writing assignments (many)</td>
<td>6%</td>
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*There is NO EXTRA CREDIT in this class.*
Grading Scale

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
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<tbody>
<tr>
<td>A/A-</td>
<td>90-100%</td>
</tr>
<tr>
<td>B+/B-</td>
<td>78-89%</td>
</tr>
<tr>
<td>C+/C-</td>
<td>66-77%</td>
</tr>
<tr>
<td>D+/D-</td>
<td>55-65%</td>
</tr>
<tr>
<td>F</td>
<td>below 55%</td>
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Plus and minus letter grades will be determined for final grades. Mid-semester grades will not have plusses or minuses. All grades for this class will be posted on coursesite.

V. Additional Information

All official correspondence will be sent to each student's Lehigh University issued e-mail address. This is the primary and official form of communication. Students are expected to check their University e-mail frequently and consistently. Any and all consequences that result when University e-mail is not read or checked regularly are the responsibility of the individual student.

Academic Dishonesty is taken very seriously in this course. The Student Senate has formulated a policy on academic integrity that is hereby incorporated by reference. Each student should be familiar with the appropriate resources, available at http://www.lehigh.edu/~indost/conduct/handbook/sect6.shtml. All incidents of academic dishonesty will be reported to the Dean of Students Office. There are absolutely NO EXCEPTIONS.

Students with Disabilities – Any student who because of a disability may require special arrangements in order to meet course requirements should contact Dr. Miller as soon as possible to make any necessary accommodations. Student should present appropriate verification from the Dean of Students Office.

Lehigh University endorses The Principles of Our Equitable Community (http://www4.lehigh.edu/diversity/principles). We expect each member of this class to acknowledge and practice these Principles. Respect for each other and for differing viewpoints is a vital component of the learning environment inside and outside the classroom.