

**CHEM 162, Fall 2015**  
**GENERAL CHEMISTRY II**

**Instructor:** Prof. Ho Leung Ng. Email: [hng@hawaii.edu](mailto:hng@hawaii.edu). I try to answer email questions within 1-2 business days. Please post questions to Piazza prior to emailing me for a faster response.

**Classroom:** Bilger 152. **Hours:** 9:00-10:15 T/Th, 3 credit hours

**Textbook:** "Chemistry: A Molecular Approach", 3<sup>rd</sup> ed by Nivaldo J. Tro.

**Learning Emporium:** TAs are available throughout the day every weekday to help you with chemistry and all your Natural Science classes. This is an awesome resource! Bilger Addition 209. <http://www.hawaii.edu/natsci/academic/emporium>. I sometimes drop by too.

**Office hours:** Students are encouraged to meet with the instructor for questions, additional information or any other related matter. Office hours are T 2-3, at the Learning Emporium. There will be no office hours on exam days. Please email me if you want to make an appointment outside of office hours.

**Student Responsibility:** You will probably need to **spend 10-12 hrs/week** on this class to succeed. The best way to learn is to self-test what you don't know and correct that: this means working during the course, reviewing in a daily basis and using good study habits. **Don't fall behind!** Procrastination=failure. I highly recommend reading the corresponding chapter and trying to understand the concepts before going to class.

**Course Policies:**

- 1- There will be no makeup exams. If you miss an exam and have a valid excuse (doctor's note or equivalent), the weighting of the other exams will be adjusted accordingly. Only **one** exam can be missed during the course and the final exam **cannot** be missed.
- 2- Regular attendance in lecture is highly recommended, but not mandatory. The aim of the lecture session is to guide you in your studies and to clarify, emphasize and illustrate the important (and sometimes subtle) concepts. Topics not included in the text will be covered in class and will appear in the tests. You are responsible for all information relayed in class whether you attend or not.
- 3- Academic dishonesty will not be tolerated. Cheating in the form of copying, plagiarism, altering information, or using cribs or electronic aids on exams will result in judicial proceedings in accordance with the University of Hawaii Student Conduct Code. See [http://studentaffairs.manoa.hawaii.edu/policies/conduct\\_code](http://studentaffairs.manoa.hawaii.edu/policies/conduct_code) for details.

**Piazza**

Please make sure you have access to Piazza ([www.piazza.com](http://www.piazza.com)), the free, online resource for the course. I will post announcements and Powerpoint lectures there instead of Laulima. It is a popular, new platform for helping each other with questions (peer learning). Please post questions about chemistry or course logistics there before emailing the TAs or me. We will also

be active on Piazza. Piazza also has a nice mobile platform so you can use it 24/7! Students that are most active and helpful on Piazza will be awarded extra points at the end of the term. announcements and Powerpoint lectures will be posted on Piazza.

### **Grading and Student Evaluation**

- Online homework (**Mastering Chemistry course ID: MCNG06676**) will count for 20% of the final grade. If you used Mastering Chemistry for 161, your access code should still be valid; otherwise you will need to purchase an access code if it did not come with your textbook. Homework will be due every Monday. Three days after your online homework is due, you will receive an opportunity to complete a set of Adaptive Learning problems for extra credit. These problems are customized for you by the software system to strengthen potential areas of weakness. I strongly encourage you to work in groups on the homework. It will be easier, save you time, and you will learn more. Each person will need to enter all her own answers online to receive credit for the assignment. Homework provides more opportunities to earn credit credit.

- Two midterm exams each worth 20% of the final grade. Midterm exams will focus primarily on recent material but will also include some questions from material covered earlier in the course. The final exam will be 40% of your grade and will be held during final exam week. It will be 50% cumulative and 50% on the material covered since Exam 2. Exams are multiple choice. For exams, please bring a #2 pencil, standard scientific calculator (not a cell phone, laptop, etc.), and a photo ID. Use of other electronic devices will not be allowed during the exams. **You will also be allowed to bring one sheet of letter sized paper with your notes for the exams.** Exam questions will be taken from homework problems in the book, Mastering Chemistry, and problems done in class. You will be responsible for all material in the textbook even if we do not discuss it in class. On the weekend before and the day of an exam, I do not answer questions about the exam material. You must manage your time effectively and be responsible for the outcome of these exams and this class.

### **Student Disabilities**

It is our commitment to make our lectures and classrooms accessible to all students. If you have a disability and have not voluntarily disclosed its nature and the support you need, you are invited to contact the KOKUA Program of UH (<http://www.hawaii.edu/kokua>, or talk with the instructor in order to get any accommodation you might need to take the course. This information will be kept confidential. Please do this as early in the course as possible.

### **TENTATIVE LECTURE SCHEDULE**

1. Ch. 12 Properties of Liquid Solutions
2. Ch. 13 Chemical Kinetics
3. Ch. 14 Chemical Equilibrium

### **EXAM 1 Thursday September 24th**

4. Ch. 15 Acids and Bases
5. Ch. 16 Aqueous Ionic Equilibrium

**EXAM 2 Thursday November 12th**

6. Ch. 17 Free Energy and Thermodynamics

7. Ch. 18 Electrochemistry

**FINAL EXAM Tuesday Dec 15<sup>th</sup>: 9:45-11:45am.**