

**CHEM 162, Section 2, Spring 2017**  
**GENERAL CHEMISTRY II**

**Instructor:** Prof. Ho Leung Ng. Office: Bilger 208b. 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 and to increase class involvement.

**Classroom:** Bilger 152. **Hours:** 10:30-11:45 T/Th, 3 credit hours

**Textbook:** "Chemistry: A Molecular Approach", Nivaldo J. Tro, 4th Edition. You can use older editions, but please note that chapters are numbered differently in them.

**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>

**Office hours:** I am happy to meet with students. Office hours are Tues 1:00-2:00, at the Learning Emporium. Please email me to schedule an appointment outside of office hours.

**Student Responsibility:** You will probably need to **spend at least 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 coming 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 clarify key concepts, demonstrate problem solving, and connect concepts to applications.
- 3- Academic dishonesty will not be tolerated. Cheating in the form of copying, plagiarism, altering information, or using electronic aids on exams will result in judicial proceedings in accordance with the University of Hawaii Student Conduct Code.

**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 me. I 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 credit points at the end of the term. You can access our class at <https://piazza.com/hawaii/spring2017/chem162>.

**Grading and Student Evaluation**

- Online homework (**Mastering Chemistry course ID: MCNG09264**) 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. The day 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 based on your homework performance 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. Each assignment will take 2-4 hours to complete.

- Two midterm exams each worth 20% of the final grade. Midterm exams will focus primarily on recent material but may also cover material from earlier in the course. 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 textbook, Mastering Chemistry, and class content. You will be responsible for all material in the textbook even if we do not discuss it in class. On the day before and of an exam, I do not answer questions about the exam material.

- The final exam will be 40% of your grade. It will be cumulative.

### **Student Disabilities**

I am committed to making this class 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 me 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. 13 Properties of Liquid Solutions

2. Ch. 14 Chemical Kinetics

**EXAM 1 - Tuesday, Feb 21**

3. Ch. 15 Chemical Equilibrium

4. Ch. 16 Acids and Bases

5. Ch. 17 Aqueous Ionic Equilibrium

**EXAM 2 - Tuesday, April 4**

6. Ch. 18 Free Energy and Thermodynamics

7. Ch. 19 Electrochemistry

**FINAL EXAM, May 11th, 9:45-11:45 am.**