

General Chemistry I - Fall 2011

Chem-161 (Section 001)

Instructor: Professor David Vici
Office: Bilger 321C
Phone: 956-2705, E-mail: vici@hawaii.edu

Lecture: MWF, 2:30 – 3:20 pm, Bilger 152
Office hours: Friday 3:30 – 4:30, or by appointment

Textbooks: Required: "Chemistry, A Molecular Approach," by Nivaldo J. Tro.
ISBN: 0-13-100065-9, Publisher: Pearson Education, Inc. Our class is using a UH Manoa custom edition of this book, and a solutions manual to the problems in the textbook is included in the discounted package.

Course Description: This class will provide a contemporary introduction to the discipline of chemistry. Students will develop their understanding of the structure, bonding, and reactivity of atoms and molecules. Principle topics covered include atoms, elements and molecules, chemical equations, chemical reactivity and trends, and electronic structure of atoms and molecules.

Student Learning Outcomes (SLOs): Upon completion of this course, students will be able to:

- (1) solve basic quantitative problems using chemical principles.
- (2) identify, interpret, and predict the different forms and states of matter as well as the electronic and geometric structures of different atoms.
- (3) classify, interpret, and predict different types of chemical bonding using modern day theory.

Full and detailed lists of SLOs are provided at the end of each chapter in the "Key Skills" section.

Lab (Chem 161L): All questions concerning lab should be directed towards your lab instructor. I have nothing to do with any aspect of the lab.

i>clickers: i>clickers will be used as studies show that attention spans are higher for people actively engaged in answering questions in class. i>clickers will also give those students who are shy or uncertain about their answers to participate without any unnecessary pressure. You must register your i>clicker online at: <http://www.iclicker.com/registration/> using your UH student ID and the remote ID that is printed on the barcode on the back of your remote. Registration allows me to see your individual responses for questions/quizzes that I provide in class. I will then use this information: 1) to get an idea of what problems you may be struggling with; 2) to monitor your class participation and attendance; 3) possible extra credit

Estimated Schedule of Topics:

Week	Topics to be covered
Aug 22 - 26	Chapter 1
Aug 29 – Sept 2	Chapter 2
Sept 5 - 9	Exam 1 – Sept 9th (Chapters 1 and 2)
Sept 12-16	Chapter 3
Sept 19 - 23	Chapter 4
Sept 26 - 30	Exam 2 – Sept 26th (Chapters 3 and 4)
Oct 3 - 7	Chapter 5 and 6
Oct 10 - 14	Chapter 7
Oct 17 - 21	Exam 3 – Oct 17th (Chapters 5 – 7)
Oct 24 - 28	Chapters 8 - 9
Oct 31 – 4	Exam 4 – Nov 4th (Chapters 8 – 9)
Nov 7 – 11	Chapter 10
Nov 14 - 18	Chapter 10
Nov 21 - 25	Exam 5 – Nov 21th (Chapter 10)
Nov 28 – Dec 2	Chapter 11
Dec 5 - 7	Chapter 11
Dec 12 th	Final Exam (Chapters 1 – 11)

Grading:

Exam 1	200 points	(Sept 9 th)
Exam 2	200 points	(Sept 26 th)
Exam 3	200 points	(Oct 17 th)
Exam 4	200 points	(Nov 4 th)
Exam 5	200 points	(Nov 21 st)
Final	200 points	(Dec 12 th , 2:15 – 4:15pm, Bilger 152)
-lowest midterm grade	-200 points	
Total	1000 points	

Grading Scale: Grading scales will be provided after each exam. We will strive to meet the following criteria: A (100-90%), B (89-80%), C (79-70%), D (69-60%), F (below 60%). If I give a test that is too hard (i.e., the class does poorer than I expect) I *may* curve the scores up to compensate. The exact criteria for when I will do this and the amount of the curving will not be defined here. You will have to trust my judgment.

Note: A grade of “C” or better is required to move from CHEM 161 to CHEM 162 (not “C-”).

Since all of the grading information is provided above, I will not calculate for you mid-semester the grades that you will need to make for passing the course. Please do not ask me to do a calculation that you can perform yourself.

Seating will be assigned right before all exams and you will be required to show University ID before turning in your exam. A seating chart has been posted on Lualima. Exams will be multiple-choice and scored by a computer. Exam results will be posted on Lualima as soon as they are made available to me. There will be no make-up exams offered.

Online Quizzes, tutorials, and homework problems: There is an online homework and tutorial program associated with your textbook at www.masteringchemistry.com. You will need a valid e-mail address and a

student access code (*which comes with your textbook so do not throw away!!!*). If you acquired a textbook by other means, an access code should be available separately in the bookstore. Matters about MasteringChemistry and access codes can be directed to: Jessica.Elbern@Pearson.com The course ID that you will need is: **VICICF2011**. Further information regarding this program will be provided during the first week of class.

Homework: It is highly recommended that you try to solve as many of the textbook/online problems as you can for each chapter. Doing as many problems as possible is the best way to prepare for the exams. Try your best to understand the concepts of the problems (as opposed to memorizing strategies or answers).

Tutorial Room (Bilger 319): In addition to my assigned office hours, there will be graduate teaching assistants (TAs) available to help you with any questions you may have for the course. The TA schedule, along with TA contact information, will be posted on the department webpage <http://manoa.hawaii.edu/chem/> around the second week of class.

Additional information:

- Academic honesty policies can be found in the UH Student Conduct Code: <http://www.hawaii.edu/student/conduct/>
- Much of the materials used for class will be placed on Laulima. Please log on to <https://laulima.hawaii.edu/portal> on a regular basis to check. In Laulima, within the tab for CHEM 161, you will see a link for “Resources” on the left-hand side. Please be sure you can access this page during the first week of class. Contact me directly if you do not see a CHEM 161 tab (sometimes the CHEM 161 tab is hidden under the “My Active Sites” tab).

Accommodations:

This class welcomes all students. If you feel that you need accommodations for a disability, please contact me privately to discuss your needs. Please also contact the KOKUA office (956-7511) to coordinate reasonable accommodations for students with documented disabilities.

E-mail and class etiquette:

Technologies such as cell phones, E-mail, social networking, and text messaging have made us all more accessible. However, in the context of learning, this does not mean that faculty are available around the clock to immediately answer any questions that you may have for a given course. Faculty at UH Manoa generally have many obligations (multiple classes to teach, research projects to direct, committees on which they serve, etc.) so it should be expected that ***your e-mail questions may take up to two days for a response***. Of course this has large implications near test time, so the best advice I can give you is to keep current with your studies so your questions can be answered throughout the year as opposed to the last minute before an exam.

Since future employers are also looking for people who have good social skills, it is good practice to act politely and professionally in your early educational careers. ***Please turn cell phones off during class***. Articles about E-mail and class etiquette have appeared on the [New York Times](#) and [CNN](#), and I have posted a link to them here. I have also placed them on the Laulima website for easy access. Finally, it is *very disruptive* to leave the class early! Please remain for the entire class out of respect for fellow students. If you must leave early, please sit in the back and be very quiet when you leave so to not disrupt other students and me.