

CHEMISTRY 162: GENERAL CHEMISTRY II

INSTRUCTOR: Dr. Kayla Gary

EMAIL: kmgary@hawaii.edu

LECTURE HOURS: CRN 75345: MWF 11:30am – 12:20pm in Bilger 150

CRN 70430: TR 9:00am - 10:15am in Bilger 152

OFFICE HOURS: Monday 12:20pm-1:20pm & Tuesday 10:15am-11:15am in Bilger 247A (as well as most days after class & by appointment)

LEARNING EMPORIUM: Monday – Friday 8am-5pm in Bilger Addn 209
(See detailed schedule at <http://natsci.manoa.hawaii.edu/learningemporium.php>)

REQUIRED MATERIALS

- Textbook: Chemistry: A Molecular Approach, by Nivaldo Tro, 4th Edition, Pearson. ISBN 978-0558-29865-4.
- Pearson access code for using "Mastering Chemistry," on-line homework (may be purchased with the book or separately).
- iClicker for in-class participation credit
- Scientific calculator

CHEMISTRY 162 TENTATIVE LECTURE SCHEDULE (3 UNIT COURSE)

| Week | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---------------|----------------|---|-----------------|---------------|
| Week 1 Aug 21 st – Aug 25 th | | | Introduction to Chemistry 162 Chapter 11: Intermolecular Forces | | |
| Week 2 Aug 28 th – Sept 1 st | | | Chapter 11: Intermolecular Forces Chapter 13: Solutions | | |
| Week 3 Sept 4 th – Sept 8 th | | | *NO CLASS Monday September 4 th due to Labor Day holiday. Chapter 13: Solutions | | |
| Week 4 Sept 11 th – Sept 15 th | | | Chapter 13: Solutions Chapter 14: Kinetics | | |
| Week 5 Sept 18 th – Sept 22 nd | | | Chapter 14: Kinetics | | |
| Week 6 Sept 25 th – Sept 29 th | | | Exam 1 Chapters 11, 13, 14 CRN 75345 Monday September 25 th Exam 1 Chapters 11, 13, 14 CRN 70430 Tuesday September 26 th Chapter 15: Chemical Equilibrium | | |
| Week 7 Oct 2 nd – Oct 6 th | | | Chapter 15: Chemical Equilibrium | | |
| Week 8 Oct 9 th – Oct 13 th | | | Chapter 16: Acids & Bases | | |
| Week 9 Oct 16 th – Oct 20 th | | | Chapter 16: Acids & Bases | | |
| Week 10 Oct 23 rd – Oct 27 th | | | Chapter 17: Aqueous Ionic Equilibrium | | |
| Week 11 Oct 30 th – Nov 3 rd | | | Chapter 17: Aqueous Ionic Equilibrium | | |
| Week 12 Nov 6 th – Nov 10 th | | | Exam 2 Chapters 15, 16, 17 CRN 75345 Monday November 6 th Exam 2 Chapters 15, 16, 17 CRN 70430 Tuesday November 7 th Chapter 18: Thermodynamics *NO CLASS Friday November 10 th due to Veteran's Day holiday. | | |
| Week 13 Nov 13 th – Nov 17 th | | | Chapter 18: Thermodynamics | | |
| Week 14 Nov 20 th – Nov 24 th | | | Chapter 18: Thermodynamics Chapter 19: Electrochemistry *NO CLASS Thurs & Friday November 23 rd and 24 th due to Thanksgiving holiday. | | |
| Week 15 Nov 27 th – Dec 1 st | | | Chapter 19: Electrochemistry | | |
| Week 16 Dec 4 th – Dec 8 th | | | Chapter 19: Electrochemistry Exam 3 Chapters 18, 19 CRN 75345 Wednesday December 6 th Exam 3 Chapters 18, 19 CRN 75345 Thursday December 7 th *Thursday December 7 th is last day of instruction. | | |
| Finals Week Dec 11 th – Dec 15 th | | | MWF Lecture CRN 75345: Final Exam Friday December 15 th from 12pm-2pm TR Lecture CRN 70430: Final Exam Tuesday December 12 th from 9:45-11:45am | | |

Changes may be made at any time at the discretion of the instructor

GRADING & EVALUATION SYSTEM FOR CHEMISTRY 162 LECTURE:

LECTURE HOMEWORK (10%): Lecture homework will be completed on-line through Pearson's interactive homework system called "Mastering Chemistry." To access the homework on-line, go to masteringchemistry.com. You will need an access code from Pearson to access Mastering Chemistry; the code comes with any new book bought at the bookstore, or can be purchased separately on-line if the book is bought used or is being re-used from a previous semester. You will also need the course code, "**CHEM162FALL2017GARY**" and your school ID# in order to register for our class homework. Homework is due on various dates throughout the term; *you are responsible for submitting your homework on time. No late homework will be accepted.* Please see the flyer on Laulima for how to correctly register for Mastering Chemistry. There is an abundance of homework problems to practice for each chapter. **In order to receive full credit for each chapter's homework, you must receive 20 POINTS per chapter.** Each chapter has ~70 points worth of problems available to practice, however you will only receive credit for up to 20 POINTS per chapter.

IN CLASS PARTICIPATION WITH ICLICKER (10%): The iClicker 1 or the iClicker 2 will be used to assess in class attendance and participation during lecture and will account for 10% of your overall grade. Questions answered in lecture will not be graded for accuracy but rather for participation and engagement in the course. Please see the flyer on Laulima for how to correctly register your iClicker. Participation credit will be assessed starting on the second week of school.

EXAMS (60%): Three (3) multiple choice exams will be given throughout the term to determine students' level of mastery of the material and will cover approximately 2-3 chapters each. Each exam will count for 20% of your total lecture grade. Make-up exams will not be given and will be given only on the assigned day and time. If you are unable to attend an exam for a documented excusable reason (i.e. medical emergency) the instructor must be informed before the exam is given. Otherwise, no credit will be given. The instructor cannot make accommodations for conflicting work schedules, vacation plans, or any other non-emergency situations.

FINAL EXAM (20%): There will be a multiple choice cumulative final exam given at the end of the course and will count for 20% of your total lecture grade. For MWF lecture (CRN 75345), the final exam will be given on Friday December 15th from 12-2pm in Bilger 150. For TR lecture (CRN 70430), the final exam will be given on Tuesday December 12th from 9:45-11:45am in Bilger 152. Make-up exams will not be given and will be given only on the assigned day and time.

GRADING: The grading scale for lecture is as follows:

| Overall % | Grade Earned |
|--------------|--------------|
| 98% or Above | A+ |
| 93-97% | A |
| 90-92% | A- |
| 88-89% | B+ |
| 83-87% | B |
| 80-82% | B- |
| 78-79% | C+ |
| 73-77% | C |
| 70-72% | C- |
| 68-69% | D+ |
| 63-67% | D |
| 60-62% | D- |
| 59% or Below | F |

INSTRUCTOR METHODS & COURSE POLICIES

Students should read the textbook for the upcoming lecture material prior to coming to class, as well as take any notes while reading to enhance learning. You are encouraged to go to the office hours of the professor or *any* TA for help working through chemistry problems. Additionally, the Learning Emporium, located in Bilger Addition 209, is open from 8am-5pm and has knowledgeable people willing to help with Chemistry 162 as well as other math and science courses. See the schedule posted outside of the Learning Emporium or go to the website below for detailed hours:

<http://natsci.manoa.hawaii.edu/learningemporium.php>

Students are responsible for keeping track of their own points along with the instructor. It is essential that students retain all returned assignments and course information. Late work will not be accepted; students must turn in assignments at assigned dates and times only. Every student is accountable for all work missed. Instructors are under no obligation to make special arrangements for students who are absent.

ATTENDANCE: You are required to attend the lecture section for which you are enrolled. The instructor reserves the right to request student ID verification at any time during this course. You may be dropped from the course if you have consecutive unexcused absences in lecture.

STUDENTS WITH DISABILITIES

Students with conditions that may require classroom or test accommodations are encouraged to contact me privately and contact the KOKUA Program (the Office for Students with Disabilities). KOKUA can be reached at (808) 956-7511 or (808) 956-7612 (voice/text) in Room 013 of the Queen Lili'uokalani Center for Student Services.

ACADEMIC DISHONESTY & CONDUCT

Any act of plagiarism, or any other attempt to defraud the academic process will meet with reprimand and possible dismissal from the course without credit. Cheating in any form on an assignment will, at a minimum, result in a zero grade on that assignment and the filing of an Academic Dishonesty Report Form describing the incident with the Vice President of Student Affairs. Prior or future cheating incidents anywhere in the university could result in expulsion. Cheating includes: the copying or exchanging of information during exams or quizzes, using banned materials, information, or devices during exams/quizzes, and plagiarism. Exact reproduction of written materials from other students on any lab report will result in all parties receiving a zero. An on-line version of the Academic Honesty Policy for the university can be found at:

http://www.studentaffairs.manoa.hawaii.edu/policies/conduct_code/