



DEPARTMENT OF CHEMISTRY

COLLEGE OF SCIENCE | THE UNIVERSITY OF UTAH

CHEM 1130 – Integrated Chemistry for Health Sciences - Fall Semester 2022

Class Meets: MWF, 9:40 – 10:30 AM, HEB 2008; Weekly Discussion/Lab Section

Instructor: Thomas G. Richmond, Professor of Chemistry.

Office: TBBC 2404. Phone: 801-581-7487

Office Hours: MWF, 10:45 AM – 11:30 AM (TBBC 2404) or by appointment.

E-mail is the best way to contact me: T.Richmond@utah.edu

Admin: Maggie.Miller@utah.edu

Course Description: Chemistry 1130 is a broad introduction to chemistry primarily for students in nursing and the allied health fields. CHEM 1130 satisfies the University General Education criteria as a Science Foundation (SF) course. Note that Math 1010 (Intermediate Algebra) or equivalent is a prerequisite; previous exposure to chemistry in a quality high school course is helpful, but not something we can change now.

Required Materials: Frost & Deal, *General, Organic, and Biological CHEMISTRY (Concise, Practical, Integrated)* 4th Edition, Pearson. E-Access through CANVAS

NOTE: You have already paid for these electronic resources as part of the course fee!

You will also need a scientific calculator (TI-30 or equivalent).

Laboratory/Discussion Sections are led by a group of experienced teaching assistants and meet weekly on Monday or Tuesday in Sections 002-008 at the times listed in the class schedule. The Canvas Site CHEM 1130-002 will be used for all Lab and Communicating Chemistry assignments.

Course Details: The final grade will be based on total points earned

Date	Assignment	Details	Points
Communicating Chemistry		Canvas Submissions (002)	40
Weekly	Pre-Lab Quiz	Canvas Quiz (1130-002)	50
Twice Weekly	E-Homework	Canvas	120
Fri, Sept 16	Exam 1	Online: Chapters 1 - 3	60
Fri, Sept 30	Exam 2	In-Person Exam: 1 - 5	60
Fri, Oct 7	Exam 3	Online: Chapters 4 - 6	60
Fri, Nov 11	Exam 4	In-Person Exam: 6 - 8	60
Wed, Nov 23	Exam 5	Online Exam: Chapters 7 - 9	60
Wed, Dec 7	Exam 6	Online: Chapters 10 - 11	60
Tues, Dec 13, 8 AM	Final Exam	In-Person: Chapters 1 - 11	80
			650

If you are unable to take an exam during the scheduled time period (9 AM – 10 PM for online exams), you must contact me by E-mail prior to the exam to schedule a make-up exam. There is not a separate Lab grade for this course; note that pre-lab points are included in the above chart. To pass this course, you must complete the lab in a satisfactory manner.

I will post periodic grade *estimates* on Canvas to help you track your progress throughout the semester. I do not award grades of C- in this course and am even less certain what a grade of D+ means. Last Semester, grade cut-offs were approximately A > 90%; B > 80% and C > 60% based on the total points earned; plus/minus grades will be assigned as appropriate.

This is an in-person course for lecture and lab/discussion so plan to attend. However, there will be additional online experiences that are integral to learning chemistry.

We will be using an electronic homework system on Canvas for twice weekly homework assignments that are critical to your learning so it is necessary that you have a good internet connection or complete those assignments on campus. You should become proficient working with Canvas and related electronic resources.

In addition to the Final Exam as scheduled by the University, there will be two in-person “mid-term” exams and four online exams over the course of the semester at the dates listed above. You will also need to build communication skills, which are of course important when you interact with patients and peers in a medical setting, to articulate complex concepts that can be brought to bear on a problem of interest. This is the rationale for the “Communicating Chemistry” online assignments.

Chemistry is a challenging subject but also key foundational material for the academic and career path you have chosen in the broad landscape of the health care professions. This course will focus on the molecular basis of life building up from the ultra-small components of the atom to large biological assemblies. Somehow we will accomplish this in one semester! The key to success in chemistry is learning to solve problems – both quantitative and conceptual.

You will have the opportunity to collaborate with your classmates during lab and discussion sessions and you may find it useful to form a small study group, participate in Supplemental Instruction sessions and attend TA office hours. However, all work submitted for this course, including online exams, must be your own and completed without any additional human or electronic resources.

ANY INSTANCE OF ACADEMIC DISHONESTY MAY RESULT IN A GRADE OF E FOR THE COURSE

Policy 6-400: The Code of Student Rights and Responsibilities will be followed in this course.

<http://regulations.utah.edu/academics/6-400.php>

This syllabus is meant to serve as an outline and guide for our course. Please note that I may modify it with reasonable notice to you. I may also modify the Course Schedule to accommodate the needs of our class. Any changes will be announced in class and posted on Canvas under Announcements.