



CHEM 1130 – Integrated Chemistry for Health Sciences

Fall Semester 2021

MWF, 9:40 – 10:30 AM, ASB 220

Instructor: Thomas G. Richmond, Professor of Chemistry
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Phone: 801-581-7487
Office Hours: MWF, 11:00 AM – 12:15 PM; Zoom or in-Person; E-Mail anytime.
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Admin: Maggie.Miller@utah.edu, 801-581-8126, GH 1473 (*Gauss Haus*)

Required Materials

Frost & Deal, General, Organic, and Biological CHEMISTRY (Concise, Practical, Integrated) 4th Edition, Pearson. E-Access through the Bookshelf tab on CANVAS

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

Laboratory/Discussion Sections are required and listed in the course schedule and start the Week of August 30

Lab Manual: “A Laboratory Guide for Elementary Chemistry,” will be posted on CANVAS

A lab coat, safety glasses, and combination lock are required for the lab; you can sign up for a free lab coat by completing the class survey on Canvas. You will also need a calculator capable of handling scientific notation and log/exponential functions.

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.

The final course grade will be based on the following (Grade Estimates Will Be Posted on Canvas):

Sir Martyn	Wednesday, September 8	Online Submission	20 points	
Exam 1	Monday, September 13	Online; Chapters 1 – 3	60 points	
Exam 2	Friday, October 8	Online; Chapters 4 – 6	60 points	
Exam 3	Wednesday, October 20	In Person; Chapters 1 – 6	60 points	
Exam 4	Monday, November 22	Online; Chapters 7 – 9	60 points	
Exam 5	Wednesday, December 8	Online; Chapters 10 – 11	60 points	
Exam 6	8 AM Monday December 13	In Person; Chapters 1 – 11	80 points	
	MC Online Learning	Online Reading/Homework	120 points	
	Picturing Chemistry	4 Online Submissions	40 points	
<i>Lab</i>	<i>A >90%, B >80%, C >70%</i>	Total Possible	500 points	

*** The low score of the four online exams will be dropped in the final grade calculation.**

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

Lab points will *not* be explicitly added to exam points to determine the final grade. However, to pass the course you must complete the labs. For a grade of C you must earn more than 70% of the lab points, to qualify for a grade of B you must earn 80% of the lab points, and to qualify for an A you must earn more than 90% of the lab points. The first portion of the laboratory period will be devoted to group work/problem solving session. If you are physically unable to take an exam due to illness, you must contact me by E-mail (T.Richmond@utah.edu) prior to the exam to schedule a make-up exam.

We will be using an electronic homework system (MyLab/Mastering Chemistry) so it is necessary that you have a good internet connection or complete those assignments on campus and become proficient working with Canvas and related electronic resources.

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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.

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 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. Some of this learning will take place in the laboratory guided by your teaching assistant and a learning assistant. In addition, we are fortunate to have two Supplemental Instruction (SI) leaders who were former (successful !) students in this course who will be holding additional discussion/review/problem solving sessions to model how to thrive in this course.

Accommodations due to Covid can be requested at the secure departmental web site:
<https://chem.utah.edu/forms/secure/covid-accommodations.php>
It would be useful to also E-mail that request directly to me.

While not a full substitute for material presented in lecture, you will find narrated Powerpoint lectures in the Media Gallery on Canvas. A good learning strategy would be to review those videos PRIOR to attending lecture each week.

Students should report their status as COVID positive at the following link to initiate contact tracing.
https://uofu.servicenow.com/it?id=uu_catalog_item&sys_id=e51376e2dbe74090a0ed7dfd96195a

Policy 6-400: The Code of Student Rights and Responsibilities will be followed in this course.
<http://regulations.utah.edu/academics/6-400.php>

Key University Policies

- 1. *The Americans with Disabilities Act.*** The University of Utah seeks to provide equal access to its programs, services, and activities for people with disabilities. If you will need accommodations in this class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union Building, (801) 581-5020. CDS will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in an alternative format with prior notification to the Center for Disability Services.
- 2. *University Safety Statement.*** The University of Utah values the safety of all campus community members. To report suspicious activity or to request a courtesy escort, call campus police at 801-585-COPS (801-585-2677). You will receive important emergency alerts and safety messages regarding campus safety via text message. For more information regarding safety and to view available training resources, including helpful videos, visit safeu.utah.edu.

3. ***Addressing Sexual Misconduct.*** Title IX makes it clear that violence and harassment based on sex and gender (which includes sexual orientation and gender identity/expression) is a civil rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, color, religion, age, status as a person with a disability, veteran's status or genetic information. If you or someone you know has been harassed or assaulted, you are encouraged to report it to the Title IX Coordinator in the Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or the Office of the Dean of Students, 270 Union Building, 801-581-7066. For support and confidential consultation, contact the Center for Student Wellness, 426 SSB, 801-581-7776. To report to the police, contact the Department of Public Safety, 801-585-2677(COPS).

4. ***Wellness Statement.*** Personal concerns such as stress, anxiety, relationship difficulties, depression, cross-cultural differences, and other life issues can interfere with a student's ability to succeed and thrive at the University of Utah. For helpful resources contact the Center for Student Wellness at www.wellness.utah.edu or call 801-581-7776.