Any changes will be announced in class and posted on Canvas under Announcements.

CHEM 1130 – Integrated Chemistry for Health Sciences
Spring Semester 2021
MWF, 9:40 – 10:30 AM, HEB 2008

Instructor: Thomas G. Richmond, Professor of Chemistry
Email: T.Richmond@utah.edu
Phone: 801-581-7487
Office Hours: MWF, 10:45 AM – 11:30 AM Zoom
Office: TBBC 2404 (The above E-mail is the best way to contact me.)
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
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: The chemistry department will provide free access to the online laboratory portion of this course in sections 002-007. You will also use those Canvas Pages to submit your Chemistry in Pictures assignment.

This course can be taken completely online and the MWF 9:40 AM sessions will be broadcast on Zoom and made available for viewing on Canvas at any time within a month of their creation. We have made special arrangements for a weekly in-person socially distanced mask-required experience that may enhance your education in “Lab” sections 2-7 of the course that meet on the day indicated in the course schedule. Each Lab section is assigned a TA who will direct the lab portion of the course and also hold several weekly Zoom problem sessions. We also will have a talented Supplemental Instructor (SI), a former highly successful student in this course, who will hold three weekly review sessions. My suggestion to you is that you “adopt” your TA/SI instructor for the semester and take regular advantage (ie not just the night before an exam) of these sessions. These opportunities were highly valued by students in the Fall offering of this course. Interestingly, so were the (sometimes time consuming – don’t start an hour before it is due) electronic homework (Mastering Chemistry) system. There will be weekly pre- and post-chapter assignments with the due dates indicated on the Mastering Chemistry site. Student even commented that reading the E-text proved valuable! All of these resources can be found and should be accessed through Canvas.

There are about 100 narrated (by me) Powerpoint lectures (10-15 minutes in length) for each section of each chapter of the text in the Media Gallery on Canvas. The silent version of these slides can be found in the files section. You will be able to find old exams, worksheets and related material in “Exam x” folders on Canvas.

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.
Grading Details

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

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Type</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meet Sir Martyn</td>
<td>Online Submission</td>
<td>10</td>
</tr>
<tr>
<td>Chemistry in Pictures</td>
<td>Online Submission</td>
<td>50</td>
</tr>
<tr>
<td>MC Online Learning</td>
<td>Online Reading/Homework</td>
<td>120</td>
</tr>
<tr>
<td>Exam 1</td>
<td>Chapters 1 – 3</td>
<td>60</td>
</tr>
<tr>
<td>Exam 2</td>
<td>Chapters 4 – 6</td>
<td>60</td>
</tr>
<tr>
<td>Exam 3</td>
<td>Chapters 7 – 9</td>
<td>60</td>
</tr>
<tr>
<td>Exam 4</td>
<td>Chapters 10 – 11</td>
<td>60</td>
</tr>
<tr>
<td>Exam 5</td>
<td>Chapters 1 – 11</td>
<td>60</td>
</tr>
</tbody>
</table>

**Must Take ALL EXAMS**

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Type</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab</td>
<td>A &gt;90%, B&gt;80%, C&gt;70%</td>
<td>420</td>
</tr>
</tbody>
</table>

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](http://regulations.utah.edu/academics/6-400.php)

If you are unable to take an online exam during the scheduled time period (typically 9 AM – 10 PM on the exam date), you must contact me by E-mail prior to the exam to schedule a make-up exam. The low score of your five exams will be dropped in the final grade calculation but you must take all exams in this course. Lab grades will NOT be directly added into your point total; however to qualify for a final grade of A you must earn more than 90% of the lab points; to qualify for a final grade of B, you must earn 80% of the lab points; to pass the course with a “C,” you must earn 70% of the lab points. I will post periodic grade estimates on Canvas to help you track your progress throughout the semester. Historical grade cut-offs are as follows: (A, A-) > 90%; (B+, B, B-) > 80%; (C+/C) >60%; I do not award grades of C- in this course and am even less certain what a grade of D+ means.

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.

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. This is the rationale for the “Chemistry in Pictures” and “Sir Martyn” assignments. Some of this learning will take place in the virtual laboratory guided by your teaching assistant and in the other online interactions facilitated by Zoom.
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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 safe.u.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.

Class will not meet in-person or online on University Scheduled Holidays:

Monday, January 18 – MLK Day
Monday, February 15 – President's Day

March 1 – 14 – Online only – no in-person meetings
Friday, March 5 – Online Wellness Day

Monday, April 5 – Wellness Day

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