CHEM 1061 Syllabus
Fall 2022 T (003) & Th(004) 1:00-2:15, Bruininks Hall 114

Instructor Info

Dr. Michelle Driessen 113 Smith Hall
mdd@umn.edu 624-0062

Student (Office) Hours will be held via Zoom (links in Canvas site) on Mondays 9-10AM, Wednesdays 12-1PM, and Thursdays 9-10AM. Appointments are also encouraged if office hours do not fit your schedule.

Class Background Information

Chemistry 1061/1065 and 1062/1066 are introductory chemistry courses, each accompanied by a lab course. The two courses, with labs, together are designed to prepare a student for a major in science, including chemistry and engineering, and the health sciences. Each lecture/lab pair fulfills the core physical science requirement. A student may ask, “Why is this course considered an important component of my liberal education?” A liberally educated person is one who can understand complex issues, find credible information, analyze that information, problem-solve, and draw reasonable conclusions based on facts. This course will develop these skills and prepare you to be an informed citizen and life-long learner.

Prerequisites

To register/remain registered in this course, you must meet all of the following criteria:

• Registration in BOTH 1061 & 1065 during the same semester is required.
• Earned 100% in the chemistry placement system OR
• Completed CHEM 1015 or an equivalent course with a grade of C- or better

If you do not meet these criteria, you should report your situation to the staff in Smith 115 at 612-624-0026 or chemfaq@umn.edu immediately. They handle all registration issues pertaining to this course.

Required Textbooks & Materials

• Internet-capable tablet or laptop for class meetings
• Access to an internet-capable laptop or desktop computer (with webcam and microphone) to access our exam system for midterms and the final exam.
• Mirror (around 6 x 6”) and portable whiteboard (around 10 x 12” for use in our e-proctoring system (details in Canvas)
• Chemistry: The molecular nature of matter and change, by Martin Silberberg and Patricia Amateis (McGraw-Hill, 9th edition) packaged with ALEKS (online homework access). Note that the e-book/ALEKS package will be charged to your U account after the first drop deadline. Access is instantaneous through our class Canvas site.
• Non-programmable scientific calculator (see details below)

**Student Learning Outcomes**
• Identify, define, and solve problems
• Master a body of knowledge and mode of inquiry
• Acquire skills for effective citizenship and life-long learning

**Calculators**
The presence or use of graphing and/or programmable calculators is FORBIDDEN on exams. Their presence or use during an exam will be considered cheating. Only non-programmable calculators with limited memory will be allowed for use during exams. Any one-line display calculator is allowed. The TI-30Xa is the suggested calculator for this and all CHEM 1XXX courses, and for most intro Physics courses. The bookstore stocks this calculator for around $10. The TI-30X IIS is an acceptable two-line calculator. Many other two-line calculators are programmable and would therefore not be allowed. If you have any questions about your particular calculator, see the instructor immediately. Calculators may not be shared during exams. *If you are concerned about battery failure during the exam, have a second calculator or extra batteries with you.*

**Class Websites**
There are 3 websites associated with this course that you must visit frequently to keep up with the material.

**Lecture Canvas Site**
This site CHEM 1061 (003-005) Chemical Principles I (Fall 2022) is where you will find any information associated with the lecture portion of the course. It will contain a class calendar, syllabus posting, and many resources to help you succeed in our course. You will find your exam and online homework grades posted here under “my grades”.

**ALEKS** (publisher’s website for online homework)
There is a link from the Lecture Canvas site to the ALEKS homework system. Follow the instructions posted on this link to set up your account correctly.

**Lab (Separate Course) Canvas Site**
This site CHEM 1065 – Lab – Fall 2022 is where you will find your lab syllabus and multiple resources associated with completion of the laboratory projects. You will view your LAB grades here under “grades”. Please note that the lab is a separate graded course that must be taken at the same time you take this lecture course.

**Accessing Canvas**
1. Connect to myu.umn.edu, log in, and click on “My Courses” tab and select the appropriate class link and follow this to our class Canvas site.
2. OR...
2. Go directly to https://Canvas.umn.edu, login, and select the appropriate class link.

Class Work

In-Class Activities
We will be working on activities in groups during each class meeting. You will be practicing skills/concepts required to do well in the course and learning from one another. Attendance/participating in the in-class assignments is required to earn anything higher than a D grade. You may only earn in-class credit if you are present in class, working with your group for the entire class meeting. Each student is allowed one absence with no penalty.* In rare cases a second absence may be granted, requiring documentation for a chronic illness or a DRC letter.

*If you are unwell, please do not attend class in person. We will work around this – just contact me via email.

Expectations for Online Learning Environment
https://communitystandards.umn.edu/know-code/online-learning-expectations
Online “study sites” (examples: Chegg, Coursehero, etc.) have become increasingly popular and present challenges for faculty and other instructors in securing their proprietary lectures, exams, assignments, slide decks, notes, etc. Upload of instructional materials to these sites is a violation of the student conduct code. Additionally, utilizing information and/or copying work from these sites to aid them in any graded assignment (such as homework or exams) is likely a violation of the student conduct code.

Homework (ALEKS)
Homework will be given using the publisher’s online homework system, ALEKS. This is where you LEARN to apply our class concepts at a basic level. Work each week to complete these at 100% to get the most out of the process. Earning 90% on ALEKS is required to earn anything higher than an F in the course. The ALEKS/homework grade will be split evenly between meeting the deadlines for each homework successfully AND final mastery of the topics in ALEKS. This can be seen in the ALEKS gradebook, listed as “overall score” and “pie percentage”. Read the instructions posted in our lecture Canvas site to set up your ALEKS account correctly (using your U of M email address) and to understand what is expected of you. Without doing so, you will not get credit for your online homework.

Practice Problems
To prepare for exams, beyond the basic practice from online homework problems, please see the list of problems for the end of each text chapter that is posted in our class Canvas site (and at the end of the syllabus).
Exams
There will be six midterm exams held every other week between 4PM Thursday and 4PM Friday, and a final exam from 10AM, Monday, December 19th – 10 AM, Tuesday, December 20th, all proctored electronically using Proctorio (see details in our Canvas site). The final exam will be comprehensive and cover all lecture material, including that presented after the last midterm exam. No exam, including the final exam, may be taken on a day other than that which has been scheduled. If you have conflicts with any of the scheduled times, you should resolve them now or drop the course. The only exception is if you are registered in another UM course that conflicts with the exam time. If you have a course conflict of this type, see me on or before Friday, September 9th.

Exam Format
You must have your student I.D., whiteboard, calculator, and mirror at each of the midterm exams and the final. I.D. checks will be made by the e-proctoring system. All midterm exams for this course will consist of 12 questions, including multiple-choice, short answer, ranking, and matching. The exams will be proctored and graded by computer. You are to use all formulas and constants provided within the exam to ensure credit. Make sure you understand fully how to set up your computer and prepare for e-proctoring in advance of the actual exams. Details are provided in the class website.

Exam Retakes
There will be six exam retake opportunities during the semester. Each will be held one week following a unit exam and open for the same 24 hours (see calendar with dates below). These retakes will cover the same unit learning objectives, but will not contain the same questions as the original exam. You are not required to attempt the retake, but can earn credit toward each chapter exam if you perform better on the retake. The difference in points between the exam and retake (if the retake score is higher) will be multiplied by 2/3 and added to your original exam score. This means you can earn back 2/3 of the points missed on each chapter exam.

The thought behind these retakes is to allow learning from mistakes, while earning course credit for doing so. Taking a retake can not harm or lower your grade.

Missed Exams
In the case of a true emergency, serious illness, or University-related trip that prevents a student from taking a midterm exam, an excused absence may be granted in strict accordance with University policy (see link below). To obtain an excused absence, students must contact the instructor in advance OR as soon as circumstances allow to discuss the nature of the emergency. Documentation will be required. The unweighted average score of all the student’s other exams will replace the zero from the excused midterm exam. Only one missed midterm exam will be replaced in this fashion. If circumstances prevent a student from taking more than
one midterm exam, a meeting must be scheduled immediately with the instructor to
discuss any options available.
http://www.policy.umn.edu/Policies/Education/Education/MAKEUPWORK.html

Students on University teams playing out of town may be able to take the exam with
the coach or an instructor as proctor; please see the course instructor about this early
so arrangements can be made. For information on missing the final exam, see
"Incomplete".

### Grades & Grading Policies

<table>
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<tr>
<th>Grade (range includes +/- grades)</th>
<th>90% ALEKS Objectives &amp; Final Pie % (50:50)</th>
<th>11/12* Class Meetings</th>
<th>50% of exam points</th>
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**IF you meet the 90% ALEKS requirement** (meeting the weekly objectives and
final pie average at or above 90%) AND the **ATTENDANCE requirement**, your exam
average will be used to determine your course grade. These percentage cutoffs
represent your exam average at the end of the semester.

- A: 90.0-100.0%
- A-: 80.0-89.9%
- B+: 75.0-79.9%
- B: 70.0-74.9%
- B-: 65.0-69.9%
- C+: 60.0-64.9%
- C: 55.0-59.9%
- C-: 50.0-54.9%
- D: < 50.0% while meeting ALEKS & Attendance requirement
- F: < 50.0% without meeting ALEKS & Attendance requirement

Total exam points for the semester =
(exam 0 x 1 pt) + (6 midterms x 24 pts) + (retake points) + (1 final x 40 pts) = 185
exam pts
University grading policies and guidelines can be found at:
http://policy.umn.edu/Policies/Education/Education/GRADINGTRANSCRIPTS.html
### Other Grade Issues

**Late Registration**
Please be advised that joining the course after the start of classes does not excuse you from any work collected and/or graded. You should give careful consideration to this prior to late addition of our course.

**Regrades**
Request an exam regrade (in writing directly to the instructor via e-mail) by the end of the week following the posting of exam results. It is possible (but very unusual) for errors to be made. You are responsible for making sure you have correctly recorded your choice of answer in the correct area.

**S/N Grading**
If you are registered for this course on an S/N basis, a grade equivalent to C- on the A-F scale will be required to receive an “S”. A D+ or below will receive an “N”. Many programs or transfer courses do not like, or will not accept, S/N grades or will assume that they are the minimum possible grade. **Requests to change grading basis after the University deadline will not be approved.**

**Incompletes**
Students who have an EXCUSED ABSENCE from the Final Exam, and have taken all midterm exams, may be eligible to receive a grade of "I" in the course. Incompletes will not be granted if a student has missed earlier exams, or is not passing based on the work up to the final. You need to fill out an incomplete request form and have it signed. See me for details. This grade is NOT routinely assigned! Any incomplete must be made up in the following semester. After that time all incompletes turn into F grades.

**Withdrawals**
If you are considering withdrawing from the class for academic reasons, I urge you to come and speak with me. Your situation may not be as bad as you think it is. If you do decide to drop the class, you should officially withdraw from the course following the rules for your college and know that students withdrawing from the course will not have any records retained for use upon re-taking the class.

Please note that if you drop lecture (1061) you must also drop lab (1065) unless you do so on or after November 7, 2022.

### Help

**Instructor**
Asking questions during office hours is a first line of defense toward overcoming conceptual problems with the course material. Get help early on so that problems do not compound! I hope to see you in person so that I can help you if you are having any difficulty.
Free Tutoring
Room 124 Smith Hall is the site of regular Chem 1061 drop-in tutorial sessions conducted by general chemistry TAs. See the TA web link for additional details and some Zoom hours.

https://sites.google.com/umn.edu/general-chemistry/chemistry-department-tutors

Issues with your Instructor
On occasion you may have a concern or problem regarding this course. You will find your instructor quite willing to discuss this with you. If, however, you wish to discuss it with someone other than your instructor, please contact Dr. Christy Haynes, the Chemistry Department Associate Head. Her office is 243 Smith Hall and her phone number is 626-1096. You may also send e-mail to her at chaynes@umn.edu. She will serve as a mediator in helping to resolve the issue.

Policy Statements

Overlapping & Back-to-Back Courses
Enrolling in overlapping or back-to-back courses that does not allow enough travel time to arrive at our class meetings on time is prohibited. For more information, please see:
http://policy.umn.edu/Policies/Education/Education/OVERLAPPINGCLASSES.html

COVID-19, Face-Coverings, Symptoms, and Vaccination
The University of Minnesota currently requires all students, staff, and faculty to wear masks when indoors, regardless of vaccination status, and strongly encourages members of the campus community to get vaccinated. Resources are available for accessing vaccines.

Please stay at home if you are experiencing symptoms of COVID-19 and consult with your healthcare provider about an appropriate course of action. Please contact me right away so we can keep you on track in our course and keep all of your peers safe from exposure. All of our course materials are accessible through our Canvas site, so there is no reason to attend class if you may have COVID-19.

Student Conduct Code
As a student at the University you are expected to adhere to Board of Regents Policy: Student Conduct Code. To review the Student Conduct Code, please see:

Scholastic Dishonesty
You are expected to do your own academic work and cite sources as necessary. Failing to do so is scholastic dishonesty. Scholastic dishonesty means plagiarizing; cheating on assignments or examinations; engaging in unauthorized collaboration on academic work; taking, acquiring, or using test materials without faculty permission;
submitting false or incomplete records of academic achievement; acting alone or in cooperation with another to falsify records or to obtain dishonestly grades, honors, awards, or professional endorsement; altering, forging, or misusing a University academic record; or fabricating or falsifying data, research procedures, or data analysis. (Student Conduct Code: http://regents.umn.edu/sites/default/files/policies/Student_Conduct_Code.pdf) If it is determined that a student has cheated, he or she may be given an "F" or an "N" for the course, and may face additional sanctions from the University.

Beware of websites (such as Chegg) that advertise themselves a “tutoring sites. It is not permissible to upload any instructor materials (such as videos, worksheets, hw assignments, exam questions) to these sites without their written permission. In addition, using these sites to complete homework or answer exam questions is consider academic dishonesty and will result in an F for the course.

The Office for Student Conduct and Academic Integrity has compiled a useful list of Frequently Asked Questions pertaining to scholastic dishonesty: http://www1.umn.edu/oscai/integrity/student/index.html. If you have additional questions, please clarify with your instructor for the course. Your instructor can respond to your specific questions regarding what would constitute scholastic dishonesty in the context of a particular class-e.g., whether collaboration on assignments is permitted, requirements and methods for citing sources, if electronic aids are permitted or prohibited during an exam.

**Student Mental Health and Stress Management**

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. University of Minnesota services are available to assist you with addressing these and other concerns you may be experiencing. You can learn more about the broad range of confidential mental health services available on campus via http://www.mentalhealth.umn.edu/.

**Teaching & Learning**

The materials provided in this course are intended only for the students officially enrolled in this section and are to be used to learn and practice the course material. Disseminating class notes, videos, exams, etc… beyond the classroom community or accepting compensation (in the form of cash or in trade, such as access to a study website) undermines instructor interests in their intellectual property while not substantially furthering instructor and student interests in effective learning. Such actions violate shared norms and standards of the academic community and are not allowed. For additional information, please see: http://policy.umn.edu/Policies/Education/Education/STUDENTRESP.html
Sexual Harassment
https://regents.umn.edu/sites/regents.umn.edu/files/policies/Sexual_Harassment_Sexual_Assault_Stalking_Relationship_Violence.pdf

Equity, Diversity, and Equal Opportunity
We welcome to this course individuals of all ages, backgrounds, beliefs, ethnicities, genders, gender identities, gender expressions, national origins, religious affiliations, sexual orientations, ability, and other visible and invisible differences. Instructors, teaching assistants, and students are expected to contribute to a respectful, welcoming and inclusive environment for every other member of the class. This is in agreement with university policy:
http://regents.umn.edu/sites/regents.umn.edu/files/policies/Equity_Diversity_EO_AA.pdf

For information on the Diversity and Inclusion Committee in the Chemistry Department, see:
https://sites.google.com/umn.edu/chemintranet/diversity-inclusion

Collaboration among people of all cultures and backgrounds enhances our experiences and contributes to excellence in teaching, learning, and research. We strive for a climate that celebrates our differences and strengthens our department by embracing and working to increase diversity, equity, and inclusion.

For the Gender and Sexuality Center for Queer and Trans Life, see:
https://gsc.umn.edu/
For gender-neutral restrooms in Smith and Kolthoff Halls and elsewhere on campus, see:
https://sites.google.com/umn.edu/chemintranet/accessible-gender-neutral-restrooms

Disability Resource Center
The University of Minnesota views disability as an important aspect of diversity, and is committed to providing equitable access to learning opportunities for all students. The Disability Resource Center (DRC) is the campus office that collaborates with students who have disabilities to provide and/or arrange reasonable accommodations.

If you have, or think you may have, a disability in any area such as mental health, attention, learning, chronic health, sensory, or physical, please contact the DRC (612.626.1333, https://disability.umn.edu) to arrange a confidential discussion regarding equitable access and reasonable accommodations. Students with short-term disabilities, such as a broken arm, can often work with instructors to minimize classroom barriers. In situations where additional assistance is needed, students should contact the DRC.
If you are registered with the DRC and have a disability accommodation letter dated for this semester or year, please contact me as early in the semester as possible to review how the accommodations will be applied in the course.

### Class Schedule

#### September

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<td>Review Chpt 1-4</td>
<td>Syllabus, Chpt 1-4</td>
<td>Exam 0</td>
<td>Prereq HW</td>
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<tr>
<td>11 Chpt 5</td>
<td>12 Chpt 5</td>
<td>13 Chpt 5</td>
<td>14 Chpt 5</td>
<td>15 Chpt 5 HW A</td>
<td>16 Chpt 1-5.3</td>
<td>17 Chpt 5/6</td>
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<td>18 Chpt 5/6</td>
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<td>21 Chpt 5/6</td>
<td>22 Chpt 5/6 HW B</td>
<td>23 Chpt 6 Exam 1 Retake</td>
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<td>25 Chpt 6</td>
<td>26 Chpt 6</td>
<td>27 Chpt 6</td>
<td>28 Chpt 6 HW C</td>
<td>29 Chpt 6</td>
<td>30 Chpt 6 CH 5-6</td>
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<td>6 Chpt 7</td>
<td>7 Chpt 8 Exam 2 Retake</td>
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<td>11 Chpt 8</td>
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<td>13 Chpt 8 HW E</td>
<td>14 Chpt 3 CH 7-8</td>
<td>15 Chpt 8/9</td>
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<td>16 Chpt 8/9</td>
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<td>18 Chpt 8/9</td>
<td>19 Chpt 8/9 HW F</td>
<td>20 Chpt 8/9</td>
<td>21 Chpt 3 Retake</td>
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<td>26 Chpt 9 HW G</td>
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<td>28 Chpt 4 CH 8.3 &amp; 9</td>
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<td>30 Chpt 10</td>
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<td>1 Chpt 10</td>
<td>2 Chpt 10 HW H</td>
<td>3 Chpt 11/12</td>
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<td>6 Chpt 11/12</td>
<td>7 Chpt 11/12</td>
<td>8 Chpt 11/12</td>
<td>9 Chpt 11/12 HW I</td>
<td>10 Chpt 11/12</td>
<td>11 Chpt 12/15</td>
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<td>20 Chpt 13</td>
<td>21 Chpt 13</td>
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<td>30 Chpt 13 HW K</td>
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<td>2 Exam 6 CH 12 – 13.5, 15</td>
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<td>6 Chpt 13</td>
<td>7 Chpt 13 HW L</td>
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<td>9 Exam 6 Retake</td>
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<td>11 Review</td>
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<td>13 NO Class</td>
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<td>15 Review</td>
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<tr>
<td>18 Open Pie Due 11:59 PM</td>
<td>19 FINAL EXAM START 10 AM</td>
<td>20 FINAL EXAM END 10 AM</td>
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## Suggested End of Chapter/Practice Problems


| Chapter 1 | 1, 6, 27, 30a, 34, 36, 40, 48, 50, 56, 76b, 80 |
| Chapter 2 | 3, 37, 40, 42, 48, 51, 74, 75, 85, 91, 92, 95c, 98ab, 104ab, 110, 117, 124ab, 129a-f, 134, 147 |
| Chapter 3 | 2, 7, 14, 20a, 31, 40ac, 43, 46, 49, 57, 59ac, 62b, 72, 75, 79, 83, 89, 100, 125 |
| Chapter 4 | 5, 12, 19ab, 20a, 22, 24c, 28ac, 30, 32, 35, 42, 47, 63a, 66b, 73, 89, 93, 112ac, 116b, 128, 132, 139, 152ab |
| Chapter 5 | 8, 10, 21bc, 36, 44, 47, 51, 54, 57, 62, 63, 65, 74, 78, 81, 99, 100, 103, 109 |
| Chapter 6 | 9, 12, 17, 21, 28, 37, 43, 46, 47, 53, 57ac, 59, 65b, 66, 70, 76, 82b, 84, 87ac, 99c, 102 |
| Chapter 7 | 2, 7, 9, 11, 14, 20, 23, 27, 30, 31, 41, 48, 49, 51, 57, 64b, 85, 88c, 89 |
| Chapter 8 | 11, 13, 23, 24, 31, 32, 33, 36, 40ab, 44abc, 46, 48, 54ab, 56bc, 70ac, 78, 83, 84ab, 93 |
| Chapter 9 | 5, 9, 10, 13, 15, 21abc, 22, 26, 29, 31, 39, 40, 47, 49, 53, 56, 63, 64, 66, 68, 80, 89 |
| Chapter 10 | 8, 12, 13a, 16, 19b, 20a, 21a, 24, 33adf, 34a, 37, 39, 40b, 41bc, 46, 58, 66, 69, 72, 74, 79, 94a |
| Chapter 11 | 2ad, 4, 8, 12, 14, 20, 38deg, 44b, 54, 56 |
| Chapter 12 | 3, 5, 8a, 15, 21, 23, 39, 40, 44, 48, 49, 51, 63, optional: 79, 80, 87, 91, 96, 98, 119 |
| Chapter 15 | 17, 18, 19, 20, 21, 28ab, 60, 61 |