CHEM 1061
Chemistry Principles I
Sections 003 & 004
Syllabus
Fall 2023

Course Meeting Information
Section 003 – Bruininks Hall 114, Tuesdays 1-2:15PM
Section 004 – Bruininks Hall 114, Thursdays 1-2:15PM

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

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

Course information

Course Description
CHEM 1061 is the first part of a chemistry sequence called “general chemistry”. We will be using a
curriculum called Chemistry, Life, the Universe and Everything (CLUE). The curriculum is designed to help
you to learn the fundamental concepts of chemistry. Starting with atomic structure, we will use the
ideas of force and energy to look at elements and states of matter. Stoichiometry will allow us to
convert between the macroscopic and molecular levels. Light will provide us with evidence of electronic
structure, which explains periodic trends. We will model elements and compounds, predict their
properties, and explain how they participate in bonding and interactions. Finally, we will tie what we’ve
learned back to energy through temperature and enthalpy. While the approach we use in class may be
somewhat different from what you are used to, we have evidence that you will finish this course with a
deep understanding of chemistry principles and that you will be able to use this knowledge in
subsequent courses.

Course Prerequisites
To register/remain registered in this course, you must meet 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.
Course Philosophy

In a traditional classroom the flow of information is typically from the instructor to students in the form of a lecture. While this is a very efficient way to deliver simple information and learn skills (such as numerical problem solving and material to be memorized), it is not a very effective way for students to learn complex subjects like chemistry. In order to learn something, it is important to think about the concepts you are learning, understand their implications, and, when faced with a new problem, be explicitly aware of your assumptions and clarify (for yourself and others) your understanding.

The approach we will take in this class is to ask you lots of questions and, based on your answers, we will provide feedback, more questions – and some answers! While it may seem easier to just tell you what we want you to know and how to solve problems, studies have found that this approach is not very effective at promoting learning. The goal of this class is to help you become a self-directed learner, and to teach you skills that will help you for the rest of your life. Learning how to learn (and how to think) is difficult, and it is understandable if you come to feel a bit overwhelmed initially. It is completely normal to not immediately understand many of the ideas that you will encounter in chemistry. But be patient – you will learn more, in greater depth, than you would in a traditional lecture format.

If you do all the assigned work on schedule and keep up with the material, you will find this course to be interesting and rewarding. If not, you will find that the course quickly becomes incomprehensible. You must keep up! It is impossible to recover once you fall behind. The work in this course is university-level: it is not enough to recall facts and definitions and solve simple problems. The goal of this course is for you to understand chemical processes on the molecular level - to do this you will need to understand chemical concepts and be able to solve complex problems involving several steps.

A word about the instructor and the learning assistants

Our role this semester will be to help you learn and understand the concepts and materials in the course. There will be many different methods to accomplish this, almost all of which will require you to become an active participant. A typical class period will consist of very short lectures, polling questions, and time to work with your classmates in groups to solve problems. Learning assistants (LAs) and the instructor will be actively circulating during class - please let us know what questions you have as you’re working on the material! - but our role is to help facilitate your learning, not to give you the correct answer or confirm that your answer is correct. We will always try to do our best to help you, but what you get from this course depends on you.

Liberal Arts Statement

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.
Course Materials

Required Textbooks & Materials
- Internet-capable tablet or laptop for course work
- Access to an internet-capable laptop or desktop computer (with working webcam and microphone) to access our exam system for mastery checkpoints.
- Mirror (around 6 x 6”) and portable whiteboard (around 10 x 12”) for use in our e-proctoring system (details in Canvas)
- Dry erase marker for use during mastery checkpoints
- ALEKS (online homework access). Note that the ALEKS package will be charged to your U account after the first drop deadline. Access is instantaneous through our class Canvas site. More detailed information is available there on inclusive access and how this material is charged.
- Non-programmable scientific calculator with one line of data entry/display.* Note that there is a built-in scientific calculator in our exam interface if you need to use this option.

*Only non-programmable calculators with limited memory will be allowed for use during exams. 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.

The presence or use of graphing and/or programmable calculators is FORBIDDEN on exams. Their presence or use during an exam will be considered academic dishonesty and will be reported to the Office of Community Standards.

Course Objectives & Learning Outcomes

Semester Topic Outline
Prerequisites: Stoichiometry, Conversions, etc...
- Chapter 1: Atoms
- Chapter 2: Electrons and Orbitals
- Chapter 3: Elements, Bonding and Physical Properties
- Chapter 4: Heterogeneous Compounds
- Chapter 5: Systems Thinking

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

See the course Canvas site for a detailed list of learning objectives and key skills for each chapter.
Learning, Assessment & Grading

I am here to support your learning in any way possible, keeping in mind that learning is personal and will look different for each student. Successful completion of the course will require you to actively engage with all of the activities, and keep up with the pace of our course. If you skip any portion of the work, you will fall behind quickly and won’t likely be able to catch up.

You are expected to fully engage with course activities and complete all work **individually**. It is understood that you may not fully understand the course material as you are first learning it. Therefore, you will not be penalized for incorrect answers in the pre-class lecture videos, in-class work, or Canvas homework. You simply must complete these as a reasonable best attempt to earn credit.

**Lecture & Recap Videos**

You must watch the videos AND answer the embedded questions by the designated due date – these come BEFORE the class meeting where we will work on these concepts. Even though you may answer the questions incorrectly along the way (you are just learning!) you MUST answer the final question at the end of the video AND click “submit” to earn credit. This is the only way Canvas will record your work.

Your video score for each unit will be graded for completion by the deadline(s). Example: If there are 10 videos in a unit, and you view, answer questions, and submit 7 of them by their deadlines, you would earn 70% for that unit.

**In-Class Activities/Worksheets**

Each class meeting is your opportunity to work with peers, your instructor, and the learning assistants to apply and practice what you are learning outside of class time. You must be present for the entire class meeting, actively engage with your peers and the activities, AND upload your work to Canvas at the end of class to earn credit. Again, your answers don’t have to be correct to earn credit but must represent a full and honest attempt at the work. These will not earn partial credit.

Your worksheet score for each unit will be graded for completion by the deadline(s). Example: If there are 10 worksheets in a unit, and you complete and submit 8 of them by their deadlines, you would earn 80% for that unit.

How to engage with this activity:
- Print out a paper copy before class or plan to “write on” a digital copy on your personal device.
- Complete work on the worksheet during class while working with your group/table.
- Save your digital document OR take a photo (CamScanner is a good app) of each page of your paper worksheet and upload the single file to the assignment link provided.

**Canvas Homework**

The Canvas homework is where you will sometimes be asked to think about upcoming material, or perhaps to apply something you’ve practiced recently in class. Give each question your best attempt, but don’t worry about being perfect. You must answer the last question on each homework set correctly (it is a “gimme” question) in order to earn credit. This is the only way Canvas will record your work. These will not earn partial credit.
Your Canvas homework score for each unit will be graded for completion by the deadline. Example: If there are 4 Canvas homework sets in a unit, and you answer all questions, and submit 3 of them by their deadlines, you would earn 75% for that unit.

Note that the instructor and graders will periodically check your submitted work for both the worksheets and Canvas homework to confirm you are fully engaging with the material. If not, you will not earn credit for these items.

**ALEKS Homework**

ALEKS is our adaptive homework system where you will practice some of the basic skills and concepts in the course. Details on accessing and setting up your account can be found in the Canvas site. Completing this work on time at 100% will give you a basic foundation of our course concepts, but will not prepare you adequately for mastery checkpoints. Your ALEKS score for each unit will be graded for accurate completion by the deadline.

**Mastery Checkpoints**

Mastery checkpoints are where you get to show all that you have learned for each unit/chapter of material. You will be expected to put together complex ideas and explain chemical phenomena using ideas that are explored in all of the other course activities. These will be administered in Canvas using Proctorio (a proctoring system). Note the dates and protocols for these, described below.

**Grades**

Your final course percentage will be based on the weighted average of your scores in each of 5 categories, according to the following breakdown.

- Videos – 10% (completion/honest attempt, posted by unit)
- Canvas Homework – 10% (completion/honest attempt, posted by unit)
- In-Class Work/Worksheet Participation – 10% (completion/honest attempt, posted by unit)
- ALEKS Work – 10%
- Mastery Checkpoints – 60%

Your final course percentage will determine your final course letter grade using this scale. There will be no rounding or “bumping” of a score at the end of the semester.

- A: 93.0-100.0%
- A-: 90.0-92.9%
- B+: 87.0-89.9%
- B: 83.0-86.9%
- B-: 80.0-82.9%
- C+: 77.0-79.9%
- C: 73.0-76.9%
- C-: 70.0-72.9%
- D: 60.0-69.9%
- F: < 60.0%

University grading policies and guidelines can be found at: https://policy.umn.edu/education/gradingtranscripts
Mastery Checkpoints

There will be six mastery checkpoints, all proctored electronically using Proctorio (see details in our Canvas site). The final will be comprehensive and cover all course material. No mastery checkpoint, including the final, may be taken on a day other than that which has been scheduled (see calendar below). 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 8th.

Mastery Checkpoint Format

You must have your laptop, student I.D., whiteboard, dry erase marker, calculator, and mirror at each of the mastery checkpoints (dates shown in calendar below and in Canvas). They will be available for 24 hours, from Thursday at 4PM until Friday at 4PM. Once started, each mastery checkpoint must be completed within one sitting, though there is no time limit. You may not leave the camera view.

All mastery checkpoints for this course will consist of ~15 questions of varying formats, including multiple-choice, short answer, ranking, matching, and explain/essay. The mastery checkpoints will be proctored and predominantly graded by computer. The essay questions will be graded by a TA or your instructor. You are to use all formulas and constants provided within the provided mastery checkpoint materials to ensure credit. Make sure you understand fully how to set up your computer and prepare for e-proctoring in advance of the actual mastery checkpoints. Details are provided in the class website.

Mastery Checkpoint Behavior/Protocols

Please note that your full face must be on screen/camera at all times for the duration of your mastery checkpoint. If your face is not viewable, your score will not be accepted.

Items NOT allowed during a mastery checkpoint:
• any device (cell phone or iPad/tablet) other than the laptop on which you are testing
• hats of any kind
• ear phones/ear buds
• anything that obscures your face from the camera
• scratch paper
• graphing calculators or any calculator with more than two lines of display

You must follow all protocols called out here and in the instructions at the beginning of your mastery checkpoint to ensure credit for your work.

Missed Mastery Checkpoints

In the case of a true emergency, serious illness, or University-related trip that prevents a student from taking a mastery checkpoint, 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 mastery checkpoints will replace the zero from the excused checkpoint. Only one missed checkpoint will be replaced in this fashion and it does not apply to the final. If circumstances prevent a student from taking more than one mastery checkpoint, a meeting must be scheduled immediately with the instructor to discuss any options available. https://policy.umn.edu/education/makeupwork
For information on missing the final mastery checkpoint, see "Incompletes".

**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 a mastery checkpoint regrade (in writing directly to the instructor via e-mail) by the end of the week following the posting of 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 Mastery Checkpoint, and have taken all others, may be eligible to receive a grade of "I" in the course. Incompletes will not be granted if a student has missed earlier mastery checkpoints, 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 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 6, 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.

**Learning Assistant Hours**
Learning assistants for 1061 will be available throughout the week to help with questions you might have about the material. See the LA Hours link on Canvas for the schedule and additional details.
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. Lee Penn, the Chemistry Department Director of Undergraduate Studies. Their phone number is 626-1096. You may also send an e-mail message to reepenn@umn.edu. They will serve as a mediator in helping to resolve the issue.

Policy Statements

Online Assignment Help Tools
Artificial intelligence (AI) language models, such as ChatGPT, and online assignment help tools, such as Chegg®, are examples of online learning support platforms: they can not be used for course assignments except as explicitly authorized by the instructor. The following actions are prohibited in this course:

- Submitting all or any part of an assignment statement to an online learning support platform;
- Incorporating any part of an AI generated response in an assignment;
- Using AI to brainstorm, formulate arguments, or template ideas for assignments;
- Using AI to summarize or contextualize source materials;
- Submitting your own work for this class to an online learning support platform for iteration or improvement.

If you are in doubt as to whether you are using an online learning support platform appropriately, I encourage you to discuss your situation with me.

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:
https://policy.umn.edu/education/overlappingclasses

Student Conduct Code
As a student at the University you are expected 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: https://policy.umn.edu/education/studentconductcode-proc01) 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 as “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 considered academic dishonesty and will result in an F for the course.

The Office for Community Standards has compiled a useful list of ways to avoid scholastic dishonesty: https://communitystandards.umn.edu/student-resources/avoiding-scholastic-dishonesty. 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 https://safe-campus.umn.edu/personal-wellbeing#mental-health.

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: https://policy.umn.edu/education/studentresp

Sexual Harassment
The University policy on sexual harassment can be found at: https://policy.umn.edu/policy-regents/1069

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.
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<td>3 Review</td>
<td>4 Review</td>
<td>5 Review</td>
<td>6 Review</td>
<td>7 Mastery Checkpoint 5</td>
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<td>10 NO CLASS</td>
<td>11 Last Day of Instruction</td>
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<td>18 FINAL MCP START - 12:30PM</td>
<td>19</td>
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<td>23</td>
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*This schedule only shows mastery checkpoints, ALEKS work, and general content coverage. See the class Canvas site under “Course Content” to see detailed weekly lists of required readings, videos, worksheets and Canvas assignments.