Course Instructors

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**All times for the course will take place in Central Time. If you are not in the Central Time Zone, remember to adjust your time accordingly.**

Course Description and Goal

CHEM:1070 provides a general introduction to chemistry and is appropriate for students who have not had an advanced chemistry course in high school. Students will learn how scientific knowledge is acquired, applied, and communicated, as they master many of the key concepts central to the science of chemistry. Students are expected to consistently work throughout the semester on developing relevant chemical content knowledge, critical thinking abilities, and problem-solving skills through active learning in and outside the classroom.

The goals of this course are as follows:

- Mastery of major concepts and theoretical principles in chemistry
- An understanding of the relationship between the microscopic, macroscopic, and symbolic descriptions of matter and the changes it undergoes
- Provide opportunities to develop critical thinking and problem-solving skills

This course is approved as part of the General Education Program (GEP) in the College of Liberal Arts and Sciences (CLAS) and can be used to fulfill part of the requirement in the Natural Sciences category.

This course will cover the following topics: *measurement and units, matter and energy, stoichiometry and chemical equations, thermochemistry, electronic structure of atoms, periodic trends, molecular bonding and structure, properties of gases, intermolecular forces, solution chemistry, equilibrium, oxidation-reduction reactions, acids and bases, and nuclear chemistry.*

**Prerequisites:** proficiency with elementary algebra
Course Learning Objectives

At the end of this course, successful students will be able to:

- Demonstrate basic understanding of the structure and properties of chemical systems using the tools of the discipline including models, data analysis, and the use of symbolic representations.
- Gain experience in the practices of scientific investigation including observation, logic, analysis, objectivity, precision, and clear communication.

Course Delivery

CHEM:1070 consists of three scheduled components (lecture, discussion, & exams) with some components meeting virtually and some in person. Attendance is expected in all components of the course. You should also expect to devote at least six hours per week to out-of-class homework, quizzes, and studying for this course (3 credits x 2 hours out-of-class time per credit). The course components will operate with the following formats prior to Thanksgiving break. After Thanksgiving break, all components will be in a virtual format.

Virtual Lectures

- **Instructors:** Profs. Maalouf and Strathman
- **Time:** Mondays, Wednesdays, and Fridays at 9:30 AM, 10:30 AM, or 1:30 PM
- **Delivery Format:** Lectures will be recorded, and links will be posted on ICON by 9:30 AM on lecture days. Students are highly encouraged to watch the lectures during their assigned time to keep to a schedule. Bonus point opportunities will be embedded in the lectures and will need to be completed by a specific time.

In-person or Virtual Discussion Sections

- **Instructors:** graduate teaching assistants (TAs) overseen by Profs. Maalouf and Strathman
- **Time:** weekly enrolled section
- **Delivery Format:** depends on enrolled section *(With the fluid situation surrounding the pandemic, there may be the need to switch any in-person discussion to a virtual discussion prior to Thanksgiving Recess. After Thanksgiving Recess, all discussion sections will operate in a virtual format.)*
  - Face-to-face sections: will meet weekly in your assigned classroom listed on your MyUI schedule
  - Virtual sections: will meet synchronously in an online Zoom meeting at the scheduled weekly time on your MyUI schedule

Online Exams

- **Instructors:** Profs. Maalouf and Strathman along with proctors
- **Time:** see dates/times in Exam Section
- **Delivery Format:** administered online in ICON and Gradescope during an assigned Zoom meeting session with webcam capability. *(Instructors reserve the right to use additional proctoring software and/or Lockdown browser if warranted. Students will be given at least one week notice prior to the exam if additional exam software will be used.)*

Media/System Requirements

For best online learning experience, the following is required:

- **Student-provided personal computer.** While tablets, smartphones and other mobile devices may allow for some completion of coursework, they are not guaranteed to work in all areas. It is
recommended that you have access to a Windows or Mac based computer to complete coursework in the event your selected mobile device does not meet the needs of the course. If a LockDown Browser is used for the exams, students with a Chromebook computer will need to find an alternate electronic device for the exams.

- **Computer with reliable Internet access.** A wired Ethernet connection to the internet is very strongly suggested. Wireless and cellphone data connections may experience connection problems. Android and iOS operating systems are not fully supported at this time.

Students who need assistive technologies will have different computer and technology requirements. Please check with your **Student Disability Services** to determine the requirements for the specific technologies needed to support your online classes.

Need help with ICON or technology? Please contact the **ITS Helpdesk** (319 384-HELP).

### Required Textbook/Media

The **required textbook(s)/resources** for this course are:

- **Textbook:** The following e-Textbook is provided as part of ICON Direct Textbooks and approximately $64.97 will be applied to your U-Bill.
  

- **Online Homework:** Access to online homework is provided as part of ICON Direct Textbooks and approximately $48.75 will be applied to your U-Bill.
  

- **Gradescope** – free assignment and exam grading software, [https://www.gradescope.com](https://www.gradescope.com). More details about acquiring this access will be posted on ICON.

- **A webcam.** A headset with a microphone is recommended.

- **Zoom** – web conferencing software. Instructors’ and TAs’ personal Zoom links are available on ICON. To join a meeting or personal link, go to [https://uiowa.zoom.us](https://uiowa.zoom.us). For a tutorial and information on how to prepare for Zoom meetings before your first meeting, go to [https://continuetolearn.uiowa.edu/nas1/de/Zoom_faq.html](https://continuetolearn.uiowa.edu/nas1/de/Zoom_faq.html)

- **PDF generator/converter software.** Students will need a way to create a single pdf of multiple page assignments. Many free app options are available, including CamScanner and Microsoft Office Lens.

### Opt Out for ICON Direct Electronic Materials

**To be discussed in the August 24th lecture:** To maintain compliance with HEA funding rules found in the [Code of Federal Regulations](https://www.ecfr.gov), an opt-out mechanism for course fee-funded electronic course materials is provided. Your access to ALEKS, Learning Catalytics, and eTextbook are such materials. By choosing to opt-out, you will no longer have access to **ALL** these electronic materials (ALEKS, Learning Catalytics, and the eTextbook), meaning you cannot select only a single item to opt out of access. Please consider that if you choose to opt out, you will not be able to earn ALEKS and Learning Catalytics points, which corresponds to missing up to 260 pts. Further, you will not have access to the e-textbook. Since opting out would severely limit the grade that you could obtain in this course, **we strongly recommend that you do not opt out.** Access to ALEKS and Learning Catalytics is cheaper through the negotiated course fee than as stand-alone products.

After reading the above description, if you still wish to opt out, instructions on how to do so can be found in the General Information Module of our ICON course. The opt-out period ends on the last add date of the semester.
which is September 4th for Fall 2020. If you have opted out by mistake and now want to opt back in, please use
the same instructions in our ICON course to opt back in before the identical September 4th deadline. You cannot
change your decision after September 4th.

Grading Criteria

Final course grades will be assessed based on the student’s performance in the following items:

<table>
<thead>
<tr>
<th>Graded Component</th>
<th>Points</th>
<th>% of final grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Online Midterm Exams</td>
<td>375 pts.</td>
<td>37.5% (12.5% each)</td>
</tr>
<tr>
<td>Online Final Exam</td>
<td>125 pts.</td>
<td>12.5%</td>
</tr>
<tr>
<td>ALEKS Assignments</td>
<td>150 pts.</td>
<td>15.0%</td>
</tr>
<tr>
<td>ALEKS Pie Completion</td>
<td>40 pts.</td>
<td>4.0%</td>
</tr>
<tr>
<td>ICON Weekly Quizzes</td>
<td>150 pts.</td>
<td>15.0%</td>
</tr>
<tr>
<td>Discussion Activities</td>
<td>160 pts.</td>
<td>16.0%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>1000 pts.</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Final course grades will be assigned as follows. If you achieve the minimum number of points required for a
given letter grade range below, you will not receive a lower grade regardless of the distribution. For
example, a letter grade of C- or higher is guaranteed if you obtain 600 points or more by the end of the
semester.

<table>
<thead>
<tr>
<th>Letter Grade Range</th>
<th>Point Percentage</th>
</tr>
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<tbody>
<tr>
<td>A range (A+, A, A-)</td>
<td>85 – 100%</td>
</tr>
<tr>
<td>B range (B+, B, B-)</td>
<td>72.5 – 84.9%</td>
</tr>
<tr>
<td>C range (C+, C, C-)</td>
<td>60 – 72.4%</td>
</tr>
<tr>
<td>D range (D+, D, D-)</td>
<td>50 – 59.9%</td>
</tr>
<tr>
<td>F range</td>
<td>below 50%</td>
</tr>
</tbody>
</table>

Plus and minus grades will be assigned. Those grades will not necessarily be evenly split among the three
categories (for example, # B- ≠ # B ≠ # B+). The grade of A+ will be assigned to reward exceptional
achievement, typically around the top 1% of the class. Minor adjustments can be made at the end of the
semester if necessary.

Opportunities to earn points in the course are complete once the final exam is finished (by December 18th). At
that point, there is no opportunity for additional extra credit or redoing assignments for the chance to change
your letter grade. Additionally, we will not round your final percentage up to the nearest whole percentage
point.

Unlike the Spring 2020 semester, P/N grades are not an option in this course in Fall 2020.

Course Learning Activities

To successfully complete this course, students will

- Read assigned chapters.
- Watch recorded lectures on a regular schedule.
- Participate and complete Learning Catalytics review questions in discussion.
- Participate and complete a weekly group worksheet in discussion.
• Complete ALEKS online homework.
• Complete ICON quizzes and online exams.
• Watch supplemental media.
• Frequently check ICON and read announcements.

Course Assessment

ICON Quizzes (15):
There will be 15 online ICON weekly quizzes covering material from the lectures and assignments and are meant to assess how well you are retaining information and mastering the concepts. Every Friday, an ICON quiz will be available from 8:30 AM to 11:59 PM. Once started, you will have 20 minutes to complete it. Each quiz will consist of 4 multiple-choice questions and will be worth a total of 11 points based on accuracy. Over the entire course, 165 points will be offered in quizzes, but a value of 150 points will be defined as full quiz credit. The average points offered provide a cushion so students still can achieve the maximum quiz points should an absence occur or have poor performance on the review activity on occasion.

Answers to the quiz questions will be available after the due date. There will be no extensions to quiz deadlines; no make-up quizzes will be offered. For extended illnesses over multiple weeks, students should contact the instructors.

Quizzes are to be completed individually by the student registered for this course. Students can use their personal class notes (electronic or hardcopy formats) during the quiz. Students are not permitted to get assistance from any other individual or online resource, nor are students permitted to assist other students with the quiz. Students are not to take pictures of the quiz. Any student who sees what they think is a part of a quiz is to report it immediately to the instructors. Any student getting assistance on a quiz or posting anything in texts, social media, and/or the internet about a quiz will be reported to CLAS for academic misconduct.

Discussion Activities (14):
Discussion sections are limited to up to 27 students and are a very helpful, more personal complement to lectures. The delivery mode will depend on your enrolled section whether it meets in person or virtually in a Zoom meeting. Discussion sections provide students with the opportunity to ask questions, gain problem-solving experience and work in peer teams. Graduate teaching assistants (TAs) will facilitate learning teams by highlight key course concepts and efficient problem-solving strategies. Attendance and participation are expected throughout the entire semester.

Discussion sections meet weekly starting on the first week of classes (August 24-28) and then throughout the semester with 14 weeks counting for points. Components of discussion include an individual and group Learning Catalytics (LC) online review activity, and a peer-team worksheet to promote discussion, support deeper understanding of material and develop key problem-solving skills. You will need a web-enabled device to connect to LC for the discussion activity. You cannot participate in guided-inquiry activities and class discussion if you are not present (i.e. attending your enrolled in-person section or your Zoom section). For in-person sections, accessing LC from a remote location during class time will not be accepted for credit and is considered academic misconduct. Consult your class schedule on MyUI for meeting times and locations.

Starting in the second week of the semester, 13 points are awarded weekly for participation and performance in discussion activities. Tuesday through Friday discussion sections will meet the first week of classes, but points will be awarded starting on September 1. Monday discussion sections will be awarded points on the first day of classes, August 24, due to the Labor Day holiday in the third week of the semester. A maximum of 160 discussion points can be earned for the course. The 13 points earned each week are based on your active participation (8 pts broken down into 4 pts participation and 4 pts worksheet completion), contributions to group activities, and performance on the LC review activity (5 pts). While 182 points are offered through discussion activities, only a maximum of 160 points will be counted toward the course grade.
The overage points offered provide a cushion so students still can achieve the maximum discussion points should an absence occur or have poor performance on the review activity on occasion. If the absence is due to illness or a University-sanctioned reason and the student wishes to make up the absence, the student should contact their discussion TA to arrange attendance in a different section that meets in the same calendar week M-F, which in some cases may mean that you may need to attend prior to your regular section. For extended illnesses over multiple weeks, students should contact the instructors.

**Process for moving in-person sections online:** If a TA must quarantine and/or contact tracing determines that multiple students in a discussion section must quarantine, the need may arise prior to Thanksgiving Recess to move your discussion section to a virtual format either temporarily or for the remainder of the semester. Instructors will notify those sections by email and/or an ICON announcement as soon as the determination is made. At that point, the discussion section will operate at your scheduled time in a Zoom meeting.

**ALEKS Online Homework Assignments (11):**

ALEKS (Assessment and Learning in Knowledge Spaces) is an adaptive, Web-based homework system that helps students to improve their problem-solving skills and conceptual understanding of chemistry while also remediating gaps in prerequisite knowledge. To access ALEKS, please follow the instructions provided on the CHEM:1070 ICON homepage. There are two main components of ALEKS that will be utilized in this course: Assignments and Pie Completion.

There are 11 ALEKS assignments (called “Objectives” in ALEKS) throughout the semester, approximately one per chapter. Each of the 11 assignments will be fully scored with the maximum score of 15 points each. While a total of 165 points are available, only a maximum of 150 points will be counted towards the grade. The overage points offered provide a cushion so students still can achieve the maximum homework points should an absence occur or have poor performance on a homework assignment. There will be no extensions to homework deadlines. For extended illnesses over multiple weeks, students should contact the instructors.

Due to the adaptive nature of ALEKS, students must first complete an Initial Knowledge Check assessment before any assignments are released. The results of a student’s Initial Knowledge Check to determine prerequisite knowledge and how a student progresses through an assignment will determine the total number of questions per assignment. Therefore, not all students will have the same number of questions for an assignment. Further details on how ALEKS works can be found on the CHEM:1070 ICON site.

**ALEKS Online Pie Completion:**

ALEKS measures topics learned and mastery of course material with completion of a pie chart throughout the semester. As a student completes their assignments, their course pie chart will fill in. ALEKS will switch to “Open Pie Mode” if a student completes all the topics in the current homework assignment before the due date and before the next assignment is released. In Open Pie Mode, students can return to previous topics they missed or left incomplete, review previous topics, and/or work ahead on upcoming topics. Additionally, several Open Pie Mode times have been scheduled for several days before each midterm exam, during Thanksgiving break, and for the last two days of the semester. When a student returns to previous assignments during Open Pie Mode and completes missed topics, points do not add to the overdue homework assignment; rather, progress is shown toward pie completion. For this course component, a maximum of 40 points will be assigned to students who achieve 85% or greater completion of their pie chart. For students who complete less than 85% of their pie chart, points will be scaled according to the percentage less than 85% achieved.

**Lecture Participation and Learning Catalytics (LC):**

The lecture component of this course uses a virtual, asynchronous (recorded lecture) format along with online Learning Catalytics (LC) activities. Students are encouraged to participate in their enrolled lecture every Monday, Wednesday, and Friday throughout the semester, ideally at the time scheduled. Profs. Maalouf and Strathman plan to be available for questions by Zoom during the lecture times on the days they are scheduled to lecture. See the Tentative Course Calendar section at the end of the syllabus for the lecturer schedule.

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You are expected to continuously engage in the course material and use a student response online system on your personal device (smartphone, laptop, tablet etc.) to answer questions embedded throughout the recorded lectures. The instructors will award up to 5 bonus points to each unit exam based on the level of student participation in the in-lecture LC questions. If a student actively participates in the LC questions in each class period before a midterm exam, bonus extra-credit points may be awarded based on LC participation. These bonus point opportunities apply to Units 1-3, so this means that up to 15 extra points can be awarded throughout the semester.

**Online Exams (4):**

There are three 1½ -hour unit exams and a 2-hour cumulative final exam. Unit exams consist of a combination of multiple-choice taken on ICON and free response questions whose answers will be uploaded either into ICON or Gradescope. The multiple-choice portion of the exams are graded on the number of correct answers, with no penalty for guessing; while the free response portion can earn partial credit. The final exam will be cumulative and consist of only multiple-choice questions and no free response questions.

- **Exam 1:** Monday, September 21 (09/21/2020) 6:30PM - 8:00PM CT Unit 1
- **Exam 2:** Monday, October 19 (10/19/2020) 6:30PM - 8:00PM CT Unit 2
- **Exam 3:** Monday, November 16 (11/16/2020) 6:30PM - 8:00PM CT Unit 3
- **Final Exam:** date and time to be determined later (Cumulative) all 4 Units

Exams will be administered online in ICON and Gradescope during an assigned Zoom meeting session. More details will be provided on ICON at a future date prior to the first exam. Instructors reserve the right to use additional proctoring software and/or Lockdown browser if warranted. Students will be given at least one week notice prior to the exam if additional exam software will be used.

Exams are to be completed individually by the student registered for this course. Students will need the following items during the exam: a printout of the class equation sheet, a printout of the periodic table, blank scratch paper, pencils/pens, an eraser, and a basic scientific calculator (for example TI30Xa or TI-30XIIS). Students can use their personal class notes (electronic or hardcopy formats) during the exam. However, students who do not study well and plan on relying on their notes, will have difficulties finishing the exam within the allotted time.

Students are not permitted to get assistance from any other individual or online resource, nor are students permitted to assist other students with the exam. Students are not to take pictures of the exam. Any student who sees what they think is a part of an exam is to report it immediately to the instructors. Any student getting assistance on a quiz or posting anything in texts, social media, and/or the internet about an exam will be reported to CLAS for academic misconduct.

**Course Resources**

**Course Website:**

CHEM 1070 – Iowa Courses Online (ICON) website URL = [http://icon.uiowa.edu/](http://icon.uiowa.edu/). Use your Hawk ID and Hawk ID password to log in to ICON. This website includes a link to ALEKS (homework), Learning Catalytics, and an eText version of the textbook. Lecture notes, lecture recordings, sample exams, online exams and quizzes, discussion worksheets, course and exam announcements, and other info will be posted on ICON, so the instructors encourage you to check ICON frequently.

**Course Administration – Chemistry Center:**

Contact the Chemistry Center for drop/add signatures, section changes, make-up exam scheduling, tutor lists, submitting SDS accommodation letters, and general questions. Students are encouraged to email or call concerning questions or to make an appointment. Chemistry Center contact information: 319-335-1341,
The Registrar

Additional Instructional and Tutoring Resources:
The following University resources may be helpful to you throughout the semester. These services are offered outside of the Department of Chemistry. Please contact the individual resource to inquire about eligibility and/or whether services are offered in Fall 2020.

- Supplemetal Instruction through University College: [https://tutor.uiowa.edu/find-help/supplemental-instruction/](https://tutor.uiowa.edu/find-help/supplemental-instruction/)
- Alpha Chi Sigma Chemistry Fraternity (AXE) tutoring: [https://tutor.uiowa.edu/find-help/help-labs/alpha-chi-sigma-chemistry-fraternity-axe/](https://tutor.uiowa.edu/find-help/help-labs/alpha-chi-sigma-chemistry-fraternity-axe/)
- Athletics Student Tutoring: [https://academics.hawkeyesports.com/academic-success](https://academics.hawkeyesports.com/academic-success)
- College of Engineering Tutoring: [https://www.engineering.uiowa.edu/current-students/academic-support/engineering-tutorial-center](https://www.engineering.uiowa.edu/current-students/academic-support/engineering-tutorial-center)
- University Housing Tutoring: [https://housing.uiowa.edu/tutoring](https://housing.uiowa.edu/tutoring)
- TRIO Student Support Services: [https://diversity.uiowa.edu/programs/trio-student-support-services](https://diversity.uiowa.edu/programs/trio-student-support-services)
- Tutor Iowa: [http://tutor.uiowa.edu](http://tutor.uiowa.edu)

Course Policies & Expectations

The following policies apply to students registered in this course.

Makeup Exams: To qualify for a make-up examination, the exam absence must be due to illness, religious obligations, recognized University activities, unavoidable circumstances, or have prior instructor permission. To request a make-up exam for recognized University activities or religious obligations, the online form must be completed 5 days before the exam date and should include supporting documentation. To request a make-up exam due to unavoidable circumstances, such as illness, the online Makeup Exam Request form must be completed within 5 days before or after the missed exam and should include supporting documentation. A link to the request form is available on ICON and here [https://uiowa.qualtrics.com/SE/?SID=SV_ebbpDYzM8MA4hEN](https://uiowa.qualtrics.com/SE/?SID=SV_ebbpDYzM8MA4hEN). The decision as to the acceptability of any make-up request rests with the instructors and a point penalty may be imposed. Vacation or other travel plans are NOT recognized as a valid excuse for taking a make-up exam. Penalties will be assigned by the instructor, up to and including a zero score on the exam, for exam make-ups not meeting these requirements.

Make-up exams are comparable to the regular unit exams, but you will not be able to have permanent access to the online make-up exam for future studying. Instead, contact the instructors to arrange a time to review your make-up exam during a Zoom meeting/office hours and you will be provided access to the regular unit exam questions given to the entire class.

- **Make-up Exam #1:** Friday, September 25th (09/25/2020)  5:30PM - 7:00PM CT
- **Make-up Exam #2:** Friday, October 23rd (10/23/2020)  5:30PM - 7:00PM CT
- **Make-up Exam #3:** Friday, November 20th (11/20/2020)  5:30PM - 7:00PM CT

Final Exam Conflicts: The final exam will be given online at the scheduled date and time announced by the Registrar around the fifth week of the semester. Until the final examination schedule has been published and all make-up final examination arrangements have been completed, students should be prepared to be
available for a virtual examination from the first final exam period until the last exam period of the final exam week. A student with two final examinations scheduled for the same period or more than three examinations scheduled for the same day may file a request for a change of schedule before the published deadline (https://registrar.uiowa.edu/fall-2020-exam-information) at the Registrar's Service Center, 17 Calvin Hall, M–F, 8:00 AM–4:30 PM (319-384-4300). For exam conflicts during the Fall semester, the course having the lower department letter will take precedence.

Classroom Expectations & PPE Requirements: Students are expected to comply with University policies regarding appropriate classroom behavior as outlined in the Code of Student Life. This includes the policies and procedures that all students have agreed to regarding the Steps Forward for Fall 2020 in response to the COVID-19 pandemic. Particularly, all students are required to wear a face covering when in a UI building, including a classroom. In addition, the density of seats in classrooms has been reduced. In some instances, this will allow 6 feet or more of distance while in other cases, it may be less. Regardless, wearing a face covering and maintaining as much distance as possible are vital to slowing the spread of COVID-19.

In the event that a student disrupts the classroom environment through the fail to comply with the reasonable directive of an instructor or the University, the instructor has the authority to ask that the student immediately leave the space for the remainder of the class period. Additionally, the instructor is asked to report the incident to the Office of Student Accountability for the possibility of additional follow-up. Students who need a temporary alternative learning arrangement (TALA) related to COVID-19 expectations should contact Student Disability Services arrangements; +1 319 335-1462. (https://sds.studentlife.uiowa.edu/fall-2020/covid-19-temporary-learning-arrangements/).

Communications: Students can expect to receive weekly communications from the instructors (via course “Announcements”). Students should check the ICON Discussion board first as common questions will be addressed there. You can expect to receive responses to your inquiries within 24-48 hours. Students are responsible for official correspondences sent to the UI email address (uiowa.edu) and must use this address for all communication within UI (Operations Manual, III.15.2).

Academic Misconduct: The College of Liberal Arts and Sciences academic misconduct policy is available in the Student Academic Handbook. Academic misconduct may result in a grade reduction and/or other serious penalties, up to and including expulsion from the University.

Each of the items below describes the instructors’ expectations on collaborative work. If you have any questions or are unclear about the following descriptions, you must contact your professors.

- **Online Examinations**: Cheating will not be tolerated. Exams are to be completed individually by the student registered for this course. Students can use their personal class notes (electronic or hardcopy formats) during the exam. Students are not permitted to get assistance from any other individual or online resource, nor are students permitted to assist other students with the exam. Students are not to take pictures of the exam. Any student who sees what they think is a part of an exam is to report it immediately to the instructors. Any student getting assistance on an exam or posting anything in texts, social media, and/or the internet about an exam will be reported to CLAS for academic misconduct. Zoom meetings may be used to proctor the exams so students are expected to be present in those meetings while completing the online exam. Students are expected to follow all instructions provided by the instructors and teaching assistants during the exam.

- **ALEKS homework**: You must complete your own ALEKS homework. For your ultimate benefit in terms of exam performance, we encourage you to discuss problem-solving strategies in groups, but questions must be answered individually and not all students will have the same questions or same number of questions in ALEKS. TAs and faculty Zoom office hours are some of the resources that are available to help you gain the necessary understanding and problem-solving skills to successfully complete the assignments.
• **ICON Quizzes:** Quizzes are to be completed individually by the student registered for this course. Students can use their personal class notes (electronic or hardcopy formats) during the quiz. Students are not permitted to get assistance from any other individual or online resource, nor are students permitted to assist other students with the quiz. Students are not to take pictures of the quiz. Any student who sees what they think is a part of a quiz is to report it immediately to the instructors. Any student getting assistance on a quiz or posting anything in texts, social media, and/or the internet about a quiz will be reported to CLAS for academic misconduct.

**Due Dates and Missed Deadlines:** Any student who has an extended absence due to a University-sanctioned reason (e.g. illness, family emergency, etc.) is encouraged to contact the instructors.

If a student has an absence for a short while (i.e. a few days) and misses an assignment or course component, the opportunity for a make-up of a specific assignment will depend on the course component:

• If a midterm exam is missed, students will need to fill out a Makeup Exam Request form on ICON within 5 days of the absence (see Makeup Exams section of syllabus for details).
• If a discussion is missed, students should contact their TA right away to inquire about makeup possibilities (see Discussion section of syllabus for details); otherwise, the designed point overage in discussion can provide cushion for the absence.
• If an ICON quiz is missed, no make up opportunities are provided and the designed point overage can provide cushion for the missed quiz (see ICON Quizzes).
• If an ALEKS assignment is not finished by the due date, students will be given credit for whatever work was completed by the deadline, but extensions will not be granted. The designed point overage can provide cushion for the missed homework assignment. Students will have an opportunity to work on past due assignments, not for points toward the assignment, but rather for points toward their ALEKS pie completion (see the ALEKS section for more details).

**Class Recordings (Privacy and Sharing):** Some of the sessions of a course could be recorded or live-streamed. Such recordings/streaming will only be available to students registered for this course. These recordings are the intellectual property of the faculty and teaching assistant, and they may not be shared or reproduced without the explicit, written consent of the faculty/TA member. Further, students may not share these sessions with those not in the course or upload them to any other online environment. Doing so would be a breach of the Code of Student Life.

**Netiquette:** The term “netiquette” refers to the do’s and don’ts of online communication. As it applies to this online course, it is our expectation that students will communicate effectively and respectfully with each other, the instructors, and the TAs. When using a webcam, students must make sure their dress and background are appropriate for a classroom setting. Students may choose to use an electronic background on their webcam during Zoom meetings.

**University Policies**

**Administrative Home of the Course:** The administrative home of this course is the College of Liberal Arts and Sciences (CLAS), which governs academic matters relating to the course such as the add/drop deadlines, the second-grade-only option, issues concerning academic fraud or academic probation, and how credits are applied for various graduation requirements. Different colleges might have different policies. If you have questions about these or other CLAS policies, contact your academic advisor or the Office of Academic Programs and Student Development, 120 Schaeffer Hall, (319) 335-2633, clasps@uiowa.edu. The CLAS Academic Policies Handbook also contains important CLAS academic policy: http://clas.uiowa.edu/students/handbook.

**Electronic Communication:** The instructors will respond to student questions sent via e-mail with a typical response time of two working days. In addition, general notices concerning the course may be sent to students
by electronic mail. Due to privacy considerations, the official University e-mail address (firstname-
lastname@uiowa.edu) as listed on the class roster will be used for all communications. Each student is on
notice for information sent to their official e-mail address and must use this official e-mail address for all
communication. For additional information, please consult the policy statement on the Dean of Students web
site.

Academic Integrity: All undergraduates enrolled in courses offered by CLAS have, in essence, agreed to the
College’s Code of Academic Honesty. All forms of plagiarism and any other activities that result in a student
presenting work that is not their own are academic fraud. Misconduct is reported to the College, resulting in
suspension or other sanctions, with sanctions communicated with the student through UI email. Visit this page
for information: (https://clas.uiowa.edu/students/handbook/academic-fraud-honor-code).

Complaint Procedures: If at any time you have concerns about this class or your performance in it, please do
not hesitate to contact the instructors. If you do not feel that your concern has been resolved satisfactorily,
you may contact the Department Executive Officer (DEO contact information provided at the top of page one
of this syllabus). If you still do not feel that your concern has been resolved satisfactorily, you may contact the
College of Liberal Arts and Sciences Office of Academic Programs and Student Development, 120 Schaeffer
Hall, (319) 335-2633, clasps@uiowa.edu. All complaints must be made within six months of the incident. The
College’s complaint procedures are in section IX of the Academic Policies Handbook
(https://clas.uiowa.edu/students/handbook/student-rights-responsibilities).

Accommodations for Disabilities: UI is committed to an educational experience that is accessible to all
students. A student may request academic accommodations for a disability (such as mental health, attention,
learning, vision, and physical or health-related condition) by registering with Student Disability Services (SDS)
(https://sds.studentlife.uiowa.edu/), 3100 Burge Hall, (319) 335.1462. The student is then responsible for
discussing specific accommodations with the instructor.

Mental Health: As a student, you may experience a range of issues that can cause barriers to learning. These
might include strained relationships, anxiety, high levels of stress, alcohol/drug problems, feeling down, or loss
of motivation. University Counseling Services is here to help with these or other issues you may experience.
You can learn about the free, confidential mental health services available on campus by calling 319-335-7294
or visiting https://counseling.uiowa.edu/. Help is always available.

Understanding Sexual Harassment: Sexual harassment subverts the mission of the University and threatens
the well-being of students, faculty, and staff. All members of the UI community must uphold the UI mission
and contribute to a safe environment that enhances learning. Incidents of sexual harassment must be reported
immediately. Visit this site for the Office of the Sexual Misconduct Response Coordinator
(https://osmrc.uiowa.edu/) for definitions, assistance, and the full University policy.

Nondiscrimination in the Classroom: It is the instructors’ intent that students from all diverse backgrounds
and perspectives be well-served by this course, that students’ learning needs be addressed both in and out of
class, and that the diversity that students bring to this class be viewed as a resource, strength, and benefit. It is
our intent to present materials and activities that are respectful of diversity: gender, sexual orientation,
disability, age, socioeconomic status, ethnicity, race, culture, perspective, and other background
characteristics. The University of Iowa is committed to making the classroom a respectful and inclusive space
for all people. Toward this goal, students are invited to optionally share their preferred names and pronouns
with their instructors and classmates. Your suggestions about how to improve the value of diversity in this
course are encouraged and appreciated. Please let the instructors know ways to improve the effectiveness of
the course for you personally or for other students or student groups. For more information, contact the Office
of Equal Opportunity and Diversity, diversity@uiowa.edu.
In addition, in scheduling exams, the instructors have attempted to avoid conflicts with major religious holidays. If, however, an exam or major deadline has inadvertently been scheduled that creates a conflict with your religious observances, please let the instructors know as soon as possible so that we can make other arrangements.

**CLAS Final Examination Policies:** The final examination schedule for each class is announced by the Registrar around the fifth week of classes. Final exams are offered online and only during the official final examination period. No exams of any kind are allowed during the last week of classes. Until the final examination schedule has been published, students should be prepared to be available for a virtual examination from the first final exam period until the last exam period of the final exam week. Once the Registrar has announced the date and time of each final exam, the complete schedule will be published on the Registrar's web site and will be shared with instructors and students. It is the student's responsibility to know the date and time of a final exam.

**Reacting Safely to Severe Weather:** In severe weather, class members should seek appropriate shelter immediately, leaving the classroom if necessary. The class will continue if possible when the event is over. For more information on Hawk Alert and the siren warning system, visit the [Department of Public Safety website](#).
## Tentative Course Calendar

Manage your time effectively to complete the assigned course work according to the firm due dates listed in the calendar below.

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Day</th>
<th>Lectures and Exams</th>
<th>Lecture Instructor</th>
<th>Due Dates*</th>
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<tbody>
<tr>
<td>1</td>
<td>Aug 24</td>
<td>M</td>
<td>Introduction &amp; Syllabus</td>
<td>MM, AS</td>
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<tr>
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<td>26</td>
<td>W</td>
<td>Chapter 1 Chemistry in Our Lives</td>
<td>Strathman</td>
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<td>28</td>
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<td>Chapter 2 Chemistry and Measurements</td>
<td>Strathman</td>
<td>Quiz 1</td>
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<tr>
<td>2</td>
<td>Sep 2</td>
<td>M</td>
<td>Chapter 2</td>
<td>Strathman</td>
<td>ALEKS 1</td>
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<td>F</td>
<td>Chapter 3</td>
<td>Maalouf</td>
<td>ALEKS 2 &amp; Quiz 2</td>
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<tr>
<td>3</td>
<td>7</td>
<td>M</td>
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<tr>
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<td>Chapter 3 and Chapter 4 Atoms and Elements</td>
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<td>Maalouf</td>
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<td>Maalouf</td>
<td>Quiz 4</td>
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<td>23</td>
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<td>Strathman</td>
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<td>28</td>
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<td>Unit 2 Chapter 6 Ionic and Molecular Compounds</td>
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<td>Chapter 6</td>
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<td>Maalouf</td>
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<td>Chapter 8 and Chapter 9 Solutions</td>
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<td>ALEKS 8 &amp; Quiz 10</td>
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<td>MM, AS</td>
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<td>Final Exam: TBA by the Registrar by 5th week</td>
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*ALEKS Homework, Discussion Worksheets, and ICON quiz due dates, including any changes, will be displayed within ALEKS and on ICON. All out-of-class assignments are due at 11:59 PM unless otherwise indicated.