Course Information for Chemistry 1125 – Spring 2026

Fundamentals of General Chemistry II

SUBJECT TO CHANGE*

Course and Instructor Information

Instructor: Dr. Fatma Selampinar

Telephone: (860) 486-6647 **Office:** Chemistry 409

E-mail address: fatma.selampinar@uconn.edu

Course Web Site: huskyct.uconn.edu (includes links to Achieve and e-text)

Discussion/laboratory: Check the times when there will be discussion/lab (see page 11). The file containing the discussion and lab meeting times can be found in the Course Materials folder.

Instructor office hour: Please use the following link to make an appointment with Dr. Selampinar nexus.uconn.edu

The TA office hours will be posted to HuskyCT course materials folder and will begin the second week of class.

Lecture meeting time: The lectures are scheduled to take place in room CHEM A120. Friday sessions are primarily allocated for examinations, problem-solving sessions, and supplementary lectures if needed.

MWF 9:05 - 9:55 AM Where**:** CHEM 120

Required Materials:

1. Required materials:
   Lab manual and the textbook
   Print Lab Manual
   - o The print lab manual will be the same manual used over the last year.
   - o ISBN: 978-1-5339-3857-2
   - o Courses used in: CHEM 1124/1125/1126/1127/1128
   - o Net price = $34.50

   Atoms First (CHEM 1124/1125/1126)
   Opt-Out Access Card - 9781319553289
   Course/Online - 9781319548018
   IA ISBN - 9781319548025
2. ACHIEVE: Online homework that can be accessed through HuskyCT. Achieve provides access to both the online homework and the e-book. Students must purchase an access code.
3. Safety goggles: The chemistry department will sell those goggles.
4. Calculator: You will need a calculator capable of doing scientific notation and logarithms.

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Course description:

The second semester of a 3-semester sequence designed to introduce thermochemistry, properties of gases, solutions, chemical kinetics, chemical equilibria. The students will gain an understanding of chemistry that supports their broad interests in science. The subjects are covered through lectures, discussion sections and laboratory where students conduct experiments and learn fundamental laboratory skills. Students will apply the fundamental principles of chemistry to life sciences, engineering, environmental sciences, and everyday life situations. The students will be skilled in quantitative problems and demonstrate critical thinking and analytical reasoning. They will apply mathematical concepts to chemical problems.

Course Learning Objectives

At the completion of the course, students will be able to:

LO1. identify fundamental concepts and principles in chemistry essential for establishing foundational understanding.

LO2. will employ critical thinking and scientific methods to design, carry out, record, and analyze the results of chemical experiments.

LO3. develop a comprehensive grasp of effectively communicating scientific methodologies, inquiry results, and conclusions derived from application of the scientific method.

LO4. utilize observational and experimental techniques prevalent in chemistry placing significant emphasis on adhering safety protocols to ensure the secure handling of chemicals.

LO5. develop foundational competencies within the scientific method, encompassing data collection, rigorous analysis, and data interpretation.

LO6. conduct an experiment collaboratively and ethically.

Course Objectives Alignment

TOI-6 Scientific and Empirical Inquiry

Knowledge production stems from an interplay of observation, data, hypotheses, and theory concerning the natural universe, social systems, and theoretical models. Through scientific inquiry in the form of problem-solving and questioning, a greater understanding of observable phenomena develops and facilitates well-reasoned conclusions and predictions. Essential to this inquiry is a comprehension of major principles guiding modern scientific thought and awareness of the roles and limitations of interpreting and predicting observable phenomena.

Courses within this Topic of Inquiry category **must meet two or more** of the following TOI-6 Learning Objectives

Topics of Inquiry	Common Curriculum Objective	Course Objective	Course Assessments
TOI-6	Students will be able to explain and appropriately utilize basic scientific language and concepts.	LO1	Discussions, homework assignments, exams, labs

TOI-6	Students will be able to design or conduct an experiment or analysis suitable to test a scientific hypothesis and be able to interpret the results	LO2, LO4, LO5, LO6	Discussions, labs
TOI-6	Students will be able to solve problems described verbally, graphically, symbolically, or numerically.	LO1, LO2, LO3	Discussions, homework assignments, exams, labs

The Honor Code:

Academic Integrity

Academic misconduct in any form and at any task will not be tolerated. The minimum consequence will be an **"F"** for the course.

Academic misconduct includes, but is not limited to:

- Providing or receiving assistance on academic work (papers, projects, examinations) in a way that was not authorized by the instructor.
- Giving or receiving aid in examinations; unpermitted aid in class work, in the preparation of reports, or in any other work that is to be used by the instructor as the basis of grading.
- Any attempt to improperly influence (bribery, threats) any member of the faculty, staff, or administration of the University in any matter relating to academics or research.
- Plagiarism
- Doing academic work for another student.
- Presenting the same or substantially the same papers or projects in two or more courses without the explicit permission of the instructors.
- Situations where one student knowingly assists another student in committing an act of academic misconduct, and any student doing so will be held equally accountable for the violation.

Each student is required to do his or her own work on exams, quizzes, and all lab related work. For possible University sanctions, consult

https://community.uconn.edu/the-student-code

Course Overview:

This course is designed to continue the study of the fundamentals of chemistry, build upon the basics of chemistry taught in CHEM 1124Q. It provides a foundation for other physical science courses and more advanced courses in chemistry.

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Attendance:

You are expected to attend lectures, discussion and laboratory. Many times, announcements are made in lecture; you are responsible for these announcements. **Collaborative quizzes** are also administered during lecture. You may have **only one excused absence** from lab or discussion. If the absence is approved with a legitimate excuse, the missed lab/discussion grade will be replaced by the **average of your other lab/discussion grades**. **Any additional absence will be unexcused and will receive a 0. More than one unexcused absence from laboratory or discussion will result in a course grade of "F."**

Lecture:

Lectures will consist of summarizing some of the concepts and problems.

> *The lectures, notes, handouts, assessments, and displays are protected by state common law and federal copyright law. Students are authorized to take notes in the class: however, this authorization extends only to making one set of notes for your own personal use and not other use. You must obtain permission from the instructor if you wish to audio record, video record, or take pictures during the lecture. If you are authorized to record the lectures, you may not copy this recording or any other materials, provide copies of either to anyone else, or make a commercial use of them without prior permission from me.* ***Posting of any of the materials presented in this class, including but not limited to exams, quizzes, lab assignments, PowerPoint slides, and worksheets/solutions to worksheets, to any website or social media site violates this policy.***

Discussion Session:

For more information, see the Course Materials folder on HuskyCT.

Format:

Discussions will **alternate with laboratory sessions** as noted on the syllabus. Discussion sessions are led by your teaching assistant (TA). Discussion is a chance for you to build your confidence and skills using input from other students, your TA, and your instructor. Your teaching assistant (TA) will explain the format of your discussion session.

Teamwork and Individual Success:

The time in discussion is devoted to interactive problem solving, collaborative group work, and exercises designed to strengthen skills and review material introduced in lecture. You are expected to contribute to this joint effort. The purpose of the group work is to reinforce material and encourage collaborative problem solving – the latter has been shown in studies to have a major impact on success in learning the natural sciences. You will benefit from the group assignments in proportion to the effort you put into them.

The better prepared you are when you arrive, the more effective the discussion will be in preparing you for course assessments.

Each worksheet can contribute up to **five** points toward your discussion grade.

- You will receive between **0 and 5 points** based on your contribution to each group discussion. These points cannot be made up.
- You may receive **2 points** if you attended the discussion and participated fully but did not submit the worksheet.

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The completed worksheet should be submitted by 11:59 PM on the day of your discussion.

Missing Discussion:

The discussion section is an integral part of the course. You are expected to attend the discussion, **if you must miss a discussion, please contact your TA as soon as possible.**

The discussion can be made up once in case of absence only by attending another discussion session during the same week as the absence. This is valid in case of an emergency.

Laboratory:

Laboratory check in:

For more information, see the Course Materials folder on HuskyCT.

Check in is the only time you will be able to exchange or obtain equipment for your locker without being charged. Follow the instructions on the check-in sheet.

Lockers

- The locker you are assigned is your responsibility and is to be used only by you. After completing the experiment, return all equipment to your drawer. Make sure that your drawer/portable locker is locked by tugging on the lock a few times. **NEVER LEAVE YOUR LOCKER OPEN.**
- If your lock is not working properly, or if you suspect that someone else has had access to your locker, a different lock can be issued at CHM A-003.
- Make sure that you remember your locker number and your lock's combination. Write these numbers down in a secure place. Have these numbers with you every time you come to the lab. If you forget the combination, then it can be obtained by presenting your photo ID to the teaching stockroom (CHM A-003).
- You are required to check out of your locker whether you complete the course or not. Failure to do so will result in a **$25.00 fine**. You may check-out only at the scheduled time for your section (See syllabus). If you drop the course, see a TLS attendant (in CHM A-003) as soon as possible, or you may check out during the check out week during the regularly scheduled lab time.

Pre-lab Assignment

You must complete the **Prelab** posted on HuskyCT.

- The students who do not complete the **Prelab** before the discussion **will NOT be allowed** to do the lab.
- The deadline for each prelab will be **FRIDAY, 11:59 PM**, the weekend before the experiment. If you complete the prelab after the due date but before the lab you will be allowed to participate in the lab, but you will not receive the points.
- Requests for extensions on pre-lab assignments are exclusively considered under specific circumstances, primarily arising from a documented, multi-day unforeseen event substantiated through the Dean of Students Office. Please refrain from soliciting extensions via email unless a prior discussion has occurred with an official representative from the Dean of Students Office or

the Center for Student Disabilities (CSD).

- Pre-lab assignments, designed to be concise and feasible for completion online, are accessible throughout the week preceding the lab session. Procrastination until the final moments is discouraged. Instances such as unexpected conflicts or sudden illnesses do not warrant extensions for pre-lab submissions.

Making up the lab work

- If you miss a lab or anticipate missing a lab, contact your TA as soon as possible. You may have **only one excused absence** from lab or discussion. If the absence is approved with a legitimate excuse, the missed lab/discussion grade will be replaced by the **average of your other lab/discussion grades**. **Any additional absence will be unexcused and will receive a 0. More than one unexcused absence from laboratory or discussion will result in a course grade of "F."**
- All students (including those taking the course for pass/fail) must perform **all of the experiments** to pass the course.

Assignments

(NO EXTENSIONS ON ASSIGNMENTS)

The reason for not granting any extension: There is a week in between two assignments (Achieve). You have plenty of time to complete each assignment. Plan on working on all your assignments during the week. The excuse of losing power, internet access, etc. will not be accepted to grant an extension. Assignment-related emails will not be answered over the weekend. You are expected to work on every single assignment before your discussion.

ACHIEVE Online homework:

Achieve provides you with the tools necessary for studying class materials, taking assignments, analyzing your progress, and tracking your grades from wherever you have Internet access.

Worksheets*:*

The worksheet will be handed out to you by your TA in discussion. The worksheet should be completed by **HAND** and then scanned for submission. Your TA will inform you about the process of submitting worksheets. There will be a folder that you can find on HuskyCT to upload your completed worksheet.

If you have difficulties solving problems, **do not copy it!** That will be considered plagiarism and can result in your dismissal from the course or from the school or both.

You may collaborate with other students in your class on your worksheets, group work is dedicated for that purpose, but the final written assignment that you will submit must be all your work. If you have discussed the worksheet with any other student or collaborated with any other students (other than the members of the group you are in), you **must write the names of your collaborators** at the top of your completed assignment.

ALL COMPLETED WORKSHEET should be submitted by 11:59 PM on the day of your discussion; late worksheet will not be accepted (especially via e-mail).

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Resources for Help

TA Tutoring/Office Hours:

The TAs and the instructor will keep office hours during the course of the term. You are urged to seek help from the course instructor and TAs as you need it. It is important not to let things slip – the semester will pass quickly, and the workload will overwhelm you if you do not keep up with the schedule. The Teaching assistant assigned to your discussion section will also hold online office hours/in person office hours.

The TA office hours schedule is available on HuskyCT in the Course Materials folder.

Q Center:

The Q Center is a tutoring service provided by UCONN for undergraduate courses taking Q courses. To find out the details about the Q-Center, please click on http://qcenter.uconn.edu

Communication and Technology:

All students are issued a netid and email account – your TA will use the University email account to communicate with you.

The course has a website on the UConn HuskyCT (Blackboard) site. Most of the course information – solutions to problem sets/worksheets, practice material, study guides, etc. will be posted there, as will course announcements.

You should check HuskyCT each day to see if there is an announcement. HuskyCT "announcements" will be used to announce the arrangements in case of **late opening/early closing or cancellation. Achieve** due dates are shown in the Achieve system and are almost always on Fridays at 11:59 PM.

Email Etiquette

- Keep it concise – Limit your email to essential information only, ideally no more than four to six sentences. Busy faculty members and professionals read emails quickly; a long, detailed email, no matter how well written, will often get ignored. Save the details for follow-up emails and/or conversations.
- Make your "ask" reasonable – When reaching out to a prospective mentor you do not yet know, asking for a meeting to discuss their research is a reasonable request. Asking whether you can join his/her lab or become his/her research assistant is a big request that should wait until after you have had a conversation, which gives both of you the opportunity to assess whether this is a good fit.
- Maintain formality – Even if you have spoken with this person before, it is important to always maintain a formal tone and use formal language in an initial email to faculty or professionals. You never know whether your email might be shared or forwarded, so err on the side of formality.
- Be sincere and genuine – False flattery will not get you far. Only reach out to faculty or other contacts that you have a genuine interest in working with, and never exaggerate or misrepresent your interests.
- Begin emails with appropriate salutation – This goes back to maintaining formality. Though you may begin your everyday emails with "Hey" or "Hi," using these informal salutations with faculty

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or professionals may be off-putting or prevent them from taking you seriously. Always begin with "Dear Dr. [Last Name]," "Dear Professor [Last Name]," or "Dear Mr./Ms. [Last Name]."

- Professional contact information – At the end of an email, always provide your email address and phone number. The email address you provide should be professional (first.last@uconn.edu instead of soccerfan95@gmail.com). Your voicemail message should also be professional, clearly stating your name and asking callers to please leave a message. Avoid music playing in the background, slang, and informal language in your voicemail message, as these can ruin the professional impression you are trying to make.
- Be patient – Do not expect an instant response. Not everyone maintains a constant connection to their email. If you do not receive a response within 10 business days (weekends do not count!) you can send a second email. For the second email, simply resend the same email content, and avoid stating that you are emailing a second time because you did not receive a response to your first email, as some people may find this offensive. If you do not receive a response to your second email, either stop in during the faculty member's office hours to ask your question(s) and begin establishing a relationship, or move on.

  Email Etiquette – UConn Center for Career Readiness and Life Skills
  It's All About the Emails | Office of Undergraduate Research

About Exams – Please Read Carefully

While you are taking extra credit quizzes accessing online resources or using any other resources/aid are strictly prohibited, Cheating in any form and at any task will not be tolerated. The minimum consequence will be an **"F"** for the course. For possible University sanctions, consult "The Student Conduct Code" available at http://www.community.uconn.edu.

Exams are given only at the times noted on page 11 of this syllabus.

There will be NO MAKE-UPS for missed hour exams. **Note the dates and times of hour exams on your syllabus. PLEASE MARK THESE DATES ON YOUR CALENDAR and make sure not to schedule any events on these days and times.**

If you take the exam, make sure that you are physically able to do so. Once the exam is started, the work you do on that exam will be graded and counted toward your final course grade. The request that the work you did on that exam be nullified because you were ill at the time will not be accepted.

Emergency situations where events (illness, death in the immediate family, etc.) prevent a student from taking a scheduled hour examination: ***on approval by the instructor***, the average of the exams completed throughout the semester will be substituted for the missed exam. THIS CAN ONLY BE DONE FOR ONE EXAM THAT WAS MISSED (AND APPROVED BY THE INSTRUCTOR), if you miss a second exam, your grade on that exam will automatically be "zero".

Undocumented and unapproved absences will receive a score of zero for the missed exam. If you do not notify us by email before the missed exam or, in the case of an emergency, as soon after the missed exam as is possible, the absence will be counted as an unexcused absence, and you will receive a score of zero. **Supplying false or forged documentation is equivalent to cheating in the course and the minimum sanction will be an F for the course**. If you have any questions about this policy, talk to your instructor.

All students in this course MUST take the final examination at the scheduled time. Absence from the final or changes to the timing of the final exam can be granted ONLY by the Dean of Students office.

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There will be **FIVE** midterm exams given on Fridays at 9:05 AM. The exams can be administered either online or on paper. You will be notified how each exam will be administered a week before it, whether on computer or on paper. (EITHER way, the exams will be in class, and you are expected to bring your own computer when the exam is on the computer).

Taking an exam while using a phone, tablet, smartwatch, or any other unauthorized electronic device is strictly forbidden.

Exam Grades:

Exam grades are posted to HuskyCT or gradescope.

Final Course Grade:

The syllabus lists the value of each part of the course according to Plan 1 and Plan 2. Your final letter grade for the course will be calculated according to the percent values of both Plan 1 and Plan 2. You will receive the higher of the two grades (See Course Outline). Note that once the course grade has been issued, it can be changed ***only*** if a computational error is shown.

Grading Scale:

Grade Scale:	A (100-92.5%)	B+ (89.4-87.5%)	C+ (79.4-77.5%)	D+ (69.4-67.5%)
	A- (92.4-89.5%)	B (87.4-81.5%)	C (77.4-71.5%)	D (67.4-61.5%)
		B- (81.4-79.5%)	C- (71.4-69.5%)	D- (61.4-59.5%)
				F (59.4-0%)
Grade Means:	Excellent-Very Good	Very Good-Good	Satisfactory-Deficient	Deficient-Unacceptable

Extra Credit:

The points that you collect from these quizzes (online extra credit quizzes or in class quizzes) will be added to your exam total. You can earn a maximum of 20 points.

Grade Appeals:

No grades will ever be sent by email, nor will grade appeals be handled by email. If you have a question about your grade, please see the instructor or TA *in person*.

Grading: subject to change

	Plan1	Plan2
Exam 1, 2, 3, 4, 5	45%	25%
Final exam	15%	35%
Laboratory	12%	12%
Discussion	10%	10%
Achieve online hmw	15%	15%
collaborative quizzes	3%	3%
Total	100%	100%

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(Plan 1 and Plan 2 depending on the score of each exam)

Plan 1:		**Plan 2:**	
Highest	13%	Highest	9%
2nd	11%	2nd	7%
3rd	9%	3rd	5%
4th	7%	4th	3%
Lowest	5%	Lowest	1%

Point values:

- Worksheet: 5 points each (to be completed in discussion) and submitted **NO LATER THAN BY 11:59 pm on the day** of the discussion session.
- Prelab quiz: 10 points each quiz (laboratory)
- Laboratory experiments: May vary depending on the experiment, but all of the experiments will be normalized to 10 points at the end of the semester.
- Collaborative quizzes: In the course, there will be a series of unannounced quizzes, amounting to 10 or more, conducted during class sessions. Collaborating among students is encouraged, and with submissions expected at the conclusion of each class. Evaluation will prioritize completion over correctness.
- Grades will be calculated according to both plans and the higher number will prevail.

Additional information:

Support Services:

- Counseling and Mental Health Services: 486-4705 (after hours: 486-3427) www.cmhs.uconn.edu
- Career Services: 486-3013 www.career.uconn.edu
- Alcohol and Other Drug Services: 486-9431 www.aod.uconn.edu
- Dean of Students Office: 486-3426 www.dos.uconn.edu

FROM Center for Students with Disabilities:

Please contact your instructor during office hours to discuss academic accommodations that may be needed during the semester due to a documented disability. If you have a disability for which you wish to request academic accommodations and have not contacted the Center for Students with Disabilities (CSD), please do so as soon as possible. The CSD engages in an interactive process with each student and reviews requests for accommodation on an individualized, case-by-case

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basis. The CSD collaborates with students and their faculty to coordinate approved accommodations and services. The CSD is located in Wilbur Cross, Room 204 and can be reached at (860) 486-2020 or at csd@uconn.edu. Detailed information regarding the process to request accommodation is available on the CSD website at www.csd.uconn.edu.

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Chemistry 1125 Spring 2026 University of Connecticut

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Course website: http://huskyct.uconn.edu

Week	Date	Lecture Material	Laboratory/Discussion
1	1/20– 1/23	Chapter 10	Discussion (Introduction)
		Omit sections 10.9 and 10	review worksheet
2	1/26 – 1/30	Chapter 10	Discussion (Chapter 10) and check in
3	2/2 – 2/6	Chapter 11	Experiment 9: **Thermochemistry**
		Omit section 11.11	
Exam 1 – Friday, February 6, 2026, (Chapter 10)			
4	2/9 – 2/13	Chapter 11	Discussion (Chapter 11)
5	2/16 – 2/20	Chapter 12	Experiment 7: **Gas Behavior**
		Omit sections 12.6 and 7	
Exam 2 – Friday, February 20, 2026, (Chapter 11)			
6	2/23 – 2/27	Chapter 12 and 13	Discussion (Chapter 12)
7	3/2 – 3/6	Chapter 13	Experiment 10: **The Vapor Pressure and Enthalpy of Vaporization of Water**
Exam 3 – Friday, March 6, 2026, (Chapter 12)			
8	3/9 – 3/13	Chapter 13	Discussion (Chapter 13)
SPRING BREAK			
9	3/23 – 3/27	Chapter 13/15	Discussion (Chapter 13/15)
Exam 4 – Friday, March 27, 2026, (Chapter 13)			
10	3/30 – 4/3	Chapter 15	Experiment 11: **Freezing Point Depression**
11	4/6 – 4/10	Chapter 15	Discussion (Chapter 15)
12	4/13 – 4/17	Chapter 15/6	Experiment 13 – **K for Chemical Reactions**
Exam 5 – Friday, April 17, 2026, (Chapter 15)			
13	4/20 – 4/24	Chapter 16	Experiment 20 - **Acids, Bases and the Determination of Acids Dissociation Constant**
14	4/27 – 5/1	Chapter 16	Discussion chapter 16

Final Exam – TBA

Exams will be given during class. There are NO MAKEUPS for the exams.

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Reading Assignments

The sections that are listed below will not be covered in the class and you will be responsible for those sections.

Chapter 10

Section 10.1

Section 10.2

Section 10.9 (omit)

Section 10.10 (omit)

Chapter 11

Section 11.11 (omit)

Chapter 12

Section 12.1

Section 12.2

Section 12.6 (omit)

Section 12.7 (omit)

Chapter 13

Section 13.1

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