UCONN
UNIVERSITY OF CONNECTICUT

CHEM 1127Q
General Chemistry I
Fall 2026

Instructor Information

Instructor	Office	Office hours/ or by appointment	e-mail Address	Lecture Time (CHM A120)
Dr. Cady	T-214	4:00-5:00 TW (Chem A201) Or Nexus	clyde.cady@uconn.edu	TTh 12:30 PM-1:45 PM TTh 5:00 PM – 6:15 PM
Dr. Kasi	MZ219	11:00AM-Noon T (Chem A201)	rajeswari.kasi@uconn.edu	TTh 9:30 AM-10:45 AM (Aust 108)
Dr. Hohman	MZ1021	9:30-10:30 Th (Chem A201)	james.hohman@uconn.edu	TTh 8:00-9:15 AM
Dr. Caldwell	A-410	1:30-2:30 MW (CHM A201)	karenann.caldwell@uconn.edu	MWF 12:20 PM – 1:10 PM MWF 10:10 AM-11:00 AM
Dr. Aksenov	A-421	In person: T 11:00AM-12:00 PM (CHM A421)	aaksenov@uconn.edu	TTh 3:30PM-4:45 PM
Dr. Sproviero	A213	5:00-6:00PM W (chem T213)	eduardo.sproviero@uconn.edu	MWF 3:35PM-4:25PM MWF 5:00 PM-5:50 PM

Course Materials

Required textbooks are available for purchase through the UConn Bookstore (or use the Purchase Textbooks tool in HuskyCT).

Required Materials:
Item 1. Online homework and textbook access, Achieve
Item 2. General chemistry Lab manual, Online access with Labflow
Item 3. Calculator with LOG and LN keys capable of doing Scientific notation
Item 4. Approved safety goggles.

Optional Materials:
Item 1. Preparing for your ACS examination in General Chemistry (second edition): Purchasable from the UConn chemistry Club or online https://acsexamsinstitute.com/ Also available free of charge on hold at Babbidge library.

Course Description

General Chemistry (CHEM 1127Q) is a four credit course that consists of either two 75 min. lectures (T/Th) or three 50 min. lectures (M/W/F) and a single 3 hour lab period every other week. The course is designed to provide a foundation for more advanced courses in chemistry. Atomic theory, laws and theories concerning the physical and chemical behavior of gases, liquids, solids, and solutions. Quantitative measurements illustrating the laws of chemical combination in the laboratory component.

Course Learning Objectives

- LO 1- To explain and apply basic principles, definitions, laws and theories of chemistry
- LO 2- To apply basic principles to solve real world problems described verbally, graphically, symbolically or numerically.
- LO 3 – to develop laboratory skills and techniques along with data collection, data analysis and interpretation.
- LO 4- To develop logical analytical skills which can be used in real life problem solving and analysis

Alignment of Common Curriculum & Course Student Learning Objectives with Assessments

The Common Curriculum prepares students to tackle 21st-century challenges by combining coursework across disciplines to expand their worldviews, enhance their range of skills, and develop into critical, creative, emotionally intelligent, and interdisciplinary thinkers. The Curriculum is designed to help students learn to be versatile in a rapidly changing world; combine knowledge in innovative ways; apply learning strategies to new contexts, including their major; see local and global patterns and the interconnectedness of intellectual work; and appreciate how we need each other to tackle today's challenges.

The University has defined student learning objective (what a student should know, be able to do, or attitudes/beliefs they should possess by the end of the course) for each Topic of Inquiry in the Common Curriculum. Each Common Curriculum course aligns to one or more of those objectives. The course's student learning objectives align to the Common Curriculum objectives; course assessment (assignments, exams/quizzes, etc) align to both the course learning objectives and the Common Curriculum objectives.

Topic of Inquiry	Common Curriculum objective	Course student learning objective(s)	Course assessment(s)
TOI-6	TOI 6 LO-1 Students will be able to explain and appropriately utilize basic scientific language and concepts.	LO 1- To explain and apply basic principles, definitions, laws and theories of chemistry	Conceptual questions based on the first two domains of Bloom's taxonomy (remembering and understanding) on the exams
	TOI 6 LO-2 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.	LO 3 – to develop laboratory skills and techniques along with data collection, data analysis and interpretation.	Pre-lab quizzes, data analysis and conclusion reports submitted after every laboratory experiment. Required participation in scheduled laboratory activities in person.
	TOI 6L LO-1 Through application-based experiences utilizing the scientific method, students will be able to identify problems, make observations, analyze data, interpret data, and develop models or explanations.		

	TOI 6 LO-3 Students will be able to solve problems described verbally ,graphically, symbolically, or numerically.	LO 2- To apply basic principles to solve real world problems described verbally, graphically, symbolically or numerically.	Open ended quantitative problems on the exams. Online Homework assignments.
		LO 4- To develop logical analytical skills which can be used in real life problem solving and analysis	Higher-order comprehensive numerical problems on the exam and online homework. These problems cannot be directly solved by plugging values into a standard equation. Students must critically analyze the problem and combine multiple concepts in a logical manner to solve the problem.

Course Requirements and Grading

Summary of Course Grading:

	Points Distribution	Plan 1	Plan 2
Exams (3 exams 100 pts each)	450 points	45%	25%
Final Exam	250 points	25%	45%
Laboratory	150 points	15%	15%
Online Homework	100 points	10%	10%
Pre-lab	50 points	5%	5%
Total	1000 points	100%	100%

Only the raw grades will be posted on HuskyCT through the semester. Just summing up the raw scores will not provide an accurate reflection on your actual score. Laboratory grades are for both preforming the lab and successfully completing the data and calculations. You must complete all the labs in order to pass the class. At the end of the semester the scores will be calculated according to both plans and the higher score will be used to assign a letter grade. As a starting point, we will use a >90% = A; 80-89% = B; 70-79% = C; 60-69% = D, <60% = F scale. Plus and minus grades will be assigned within each bracket.

Lecture:

Material is explained and sample problems are done. There are opportunities for asking questions. You are responsible for the entire chapter whether discussed in lecture or not, unless it is otherwise announced. Always bring your calculator to the lecture. You do not need to bring your textbook. You are expected to attend every lecture and laboratory. Many times, announcements are made in lecture; you are responsible for these announcements even if you are not present.

My lectures, notes, handouts, assessments, and displays are protected by state common law and federal copyright law. Students are authorized to take notes in my class; however, this authorization extends only to making one set of notes for your own personal use and no other use. You must obtain permission from me if you wish to audio record or video record my lecture. If you are so authorized to record my lectures, you may not copy this recording or any other material, provide copies of either to anyone else, or make a commercial use of them without prior permission from me. ***Posting of any of my materials, including but not limited to exams, quiz questions, lab assignments, prelab assignments, PowerPoint slides, and solutions to recommended problems, to any website or social media site violates this policy.***

Laboratory:

Laboratory is an integral part of the course. Data and calculations sheets are expected to be uploaded at the end of the lab period in which the experiment is scheduled. Extra time where lab data is allowed to be uploaded is EXTRA. If you do not upload your data before the data submission ends on Sunday night it is a zero. All students (including those taking the course for pass/fail) must perform **all of the experiments** to pass the course. Unexcused absence from more than **one laboratory** will result in a grade of **"F"** for the entire course. Lab data must be entered by Sunday night at 11:59PM after the week of lab. If for any reason you must miss a lab make sure to email your instructor or Dr. Cady (clyde.cady@uconn.edu) to make arrangements for your absence. Only one emergency lab make up is allowed per semester.

HuskyCT is important

You should learn how to access HuskyCT (https://lms.uconn.edu/) for Chem 1127/1128.

You should check HuskyCT each day in order 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**.

When you send an e-mail to your instructor please indicate the reason in the subject line, such as homework, lab, missing an exam etc. Also include the course number since each instructor teaches more than one course.

Missed and late assignment policy:

Missed Lab:

Contact your professor and TA by email immediately so that you can be given access to the online make up lab. Make up labs must be completed by the Sunday of the week of the missed lab. Any request to make up a lab after the normally scheduled week of the lab will only be done after documentation specifying why you were unable to complete the lab for multiple days is provided. Scheduled vacations are not considered a valid excuse. As in person lab experience is a learning objective for this course you are only allowed a single online make up per semester.

Missed Pre lab: Pre lab extensions are only given if you have documented a multi day unexpected event with the dean of students office. DO NOT email about an extension unless you have talked with someone at the dean of students office or CSD. Pre labs are relatively short and can be done online any time over the week before lab. You should not wait until the last minute. An unexpected conflict or illness on Sunday afternoon is not grounds for a pre lab extensions. Pre labs are due right before your lab. If you do not complete the pre lab before lab you will not receive points for it without a very well documented reason.

Absence from Exams:

> ***Exams are scheduled during your lecture section. Unless you have proof of a university-sanctioned excuse (death of a close family member, illness with doctors note, university sanctioned event) you must take the exam during your scheduled lecture period. If you miss more than 1 regularly scheduled exams you must meet with your professor to determine if you can complete the course.***
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> If you have a pre-arranged event during an exam time you may discuss this time conflict with your professor. The exam will only be given during the scheduled 2 day exam period scheduled in the syllabus, any other exam time counts as your 1 allowable absence.
>
> If you miss an exam due to unforeseen circumstances, such as an illness and are unable to arrange a make up with your lecture instructor before the exam period is over you need to contact the lecture instructor as soon as possible and provide appropriate evidence of your emergency. The standard make up exam is 6:30 AM on the Monday after the regular exam period. There is no option of taking an exam after the exam period is over. If you do not inform your instructor of a missed exam within one week it will be counted as a zero.

Final Exam (From Dean of Students)

When students are forced to miss a final examination due to illness, accident, death in the family or other unavoidable reasons they can come to the Dean of Students Office to receive approval to arrange another exam time with their instructor. Students should present appropriate documentation to support their request. **Come to the Dean of Students Office for this service.** With other exams and assignments which are required during the semester students bring their documentation of extenuating circumstances directly to their instructors.

Academic Integrity

When taking an exam (semester exam as well as final exam) no internet connected devices (phones, apple watches, Meta glasses) are allowed out. You are also not allowed to have any device that can display a high resolution image file such as a PDF or Tiff file (apple watch, any calculator with a high resolution screen) or ear buds or headphones. Violation of our device free exam policy will result in failure for the entire semesters chemistry course. If there is a medical reason for your device you must get them approved with the CSD before the exam. If there is an emergency that requires your phone availability during the exam you should bring your phone to the exam proctor at the front of the room and ask them to alert you when the phone rings, your phone in your lap during an exam is an F for the class.

You are responsible for acting in accordance with the University of Connecticut's Student Code. Review and become familiar with the expectations. In particular, make sure you have read the section that applies to you on Academic Integrity. Students in this course are expected to maintain the highest standards of intellectual honesty. If you have any questions about what constitutes academic dishonesty (cheating or plagiarism), you should review UConn's code of conduct at http://community.uconn.edu/the-student-code-appendix-a/ and consult with the instructor PRIOR to taking any questionable actions.

Avoiding Plagiarism: As a student, it is your responsibility to avoid plagiarism and meet University expectations related to academic integrity. The University of Connecticut Library recommends the following resources for students to understand and avoid plagiarism:

Understanding Plagiarism, a tutorial from UConn Library
Citing Sources, a UConn guide to introduce citing MLA, APA styles and more
Citation Machine, interactive citation tool for MLA and APA styles
KnightCite, interactive citation tool for MLA, APA, and Chicago styles
Assignment Calculator, interactive tool that provides a timeline for writing
Research QuickStart, guidance on common questions and needs in the research process
Research Now, guides to help you develop your research skills

Copyright: Copyrighted materials within the course are only for the use of students enrolled in the course for purposes associated with this course and may not be retained or further disseminated.

Use of AI

All students are expected to act in accordance with the Guidelines for Academic Integrity at the University of Connecticut. If you have questions about academic integrity or intellectual property, you should consult with me or consult UConn's guidelines for academic integrity. Posting course material on student tutoring and course sharing websites (e.g. Chegg, Course Hero) may be a violation of my copyright and intellectual property and a violation of academic integrity. Many of you may also be aware of the recent release of ChatGPT3, a Large Language artificial intelligence (AI) model that has the capacity to quickly produce text on a range of topics. ChatGPT3 aggregates the ideas and insights of many researchers without giving them credit. Submitting ChatGPT-generated text as your own work would be an act of plagiarism insofar as it would involve passing off the work of others as your own. For these reasons, you are not allowed to use this ChatGPT or other similar tools to produce essays or other academic work for this class, unless otherwise explicitly permitted to do so. You should also know that the university has AI detection software that distinguishes between AI generated content and human generated content.

Resources for Students Experiencing Distress
The University of Connecticut is committed to supporting students in their mental health, their psychological and social well-being, and their connection to their academic experience and overall wellness. The university believes that academic, personal, and professional development can flourish only when each member of our community is assured equitable access to mental health services. The university aims to make access to mental health attainable while fostering a community reflecting equity and diversity and understands that good mental health may lead to personal and professional growth, greater self-awareness, increased social engagement, enhanced academic success, and campus and community involvement.
Students who feel they may benefit from speaking with a mental health professional can find support and resources through the Student Health and Wellness-Mental Health (SHaW-MH) office. Through SHaW-MH, students can make an appointment with a mental health professional and engage in confidential conversations or seek recommendations or referrals for any mental health or psychological concern.

Mental health services are included as part of the university's student health insurance plan and also partially funded through university fees. If you do not have UConn's student health insurance plan, most major insurance plans are also accepted. Students can visit the Student Health and Wellness-Mental Health located in Storrs on the main campus in the Arjona Building, 4th Floor, or contact the office at (860) 486-4705, or https://studenthealth.uconn.edu/ for services or questions.

Accommodations for Illness or Extended Absences
If illness prevents you from participating in class, it is your responsibility to notify me as soon as possible. If life circumstances are affecting your ability to focus on courses and your UConn experience, students can email the Dean of Students at dos@uconn.edu to request support.

Students with Disabilities
The University of Connecticut is committed to protecting the rights of individuals with disabilities and assuring that the learning environment is accessible. If you anticipate or experience physical or academic barriers based on disability or pregnancy, please let me know immediately so that we can discuss options. Students who require accommodations should contact the Center for Students with Disabilities, Wilbur Cross Building Room 204, (860) 486-2020 or http://csd.uconn.edu/.

Policy against Discrimination, Harassment, and Inappropriate Romantic Relationships
The University is committed to maintaining an environment free of discrimination or discriminatory harassment directed toward any person or group within its community – students, employees, or visitors. Academic and professional excellence can flourish only when each member of our community is assured an atmosphere of mutual respect. All members of the University community are responsible for the maintenance of an academic and work environment in which people are free to learn and work without fear of discrimination or discriminatory harassment. To that end, and in accordance with federal and state law, the University prohibits discrimination and discriminatory harassment, as well as inappropriate Romantic relationships, and such behavior will be met with appropriate disciplinary action, up to and including dismissal from the University. Refer to the Policy against Discrimination, Harassment and Inappropriate Romantic Relationships for more information. To protect the campus community, all non-confidential University employees (including faculty) are required to report assaults they witness or are told about to the Office of Diversity & Equity under the Sexual Assault Response Policy. The University takes all reports with the utmost seriousness. Please be aware that while the information you provide will remain private, it will not be confidential and will be shared with University officials who can help. Refer to the Sexual Assault Reporting Policy for more information.

Extra Help:
TA office hours:
TA office hours are held in chemistry T301 and their availability will be posted outside the room and on HuskyCT in the Syllabus and course materials section by the 3rd week of class.

Q Center:

http://qcenter.uconn.edu The Q center is a tutoring service specifically for students taking Q (quantitative) courses. Chemistry 1127/1128 are Q courses so you can go to the Q-center and get help. The Q center will often be open during evening hours and organize extra review sessions before exams.

Supplemental Instruction (SI):

The UConn Academic Achievement Center sponsors Supplemental Instruction sessions for general chemistry (1127/1128). http://achieve.uconn.edu/si/ Supplemental Instruction is a weekly help session carried out by an Undergraduate Student who has succeeded in the course. These sessions allow you to ask a fellow undergraduate questions about what and how you should study for the course. The SI instructors took the course just like you and through this program are available to help you.

Extra practice representative problems:

Supplementary (non-graded) practice problems will be posted to HuskyCT if extra practice is desired. Anything posted to HuskyCT is intended for student use and students should always feel free to look in various professor's material files for anything that helps them understand the material better.

CHEM 1127 **Fall 2026**

WEEK	DATES	PROBLEM SET/LAB
1	8/31 – 9/4	**Online Homework:** None
		Lab: None
		Lecture: Intro/ Chapter 1
2	9/7 – 9/11	**Online Homework: practice assignment (extra credit)**
		Lab:None Make sure to watch the safety video and complete the online safety quiz.
		Pre lab: Pre lab 1 due before lab 1 starts
		Lecture: Chapter 2 no history dates and names on exam. Start chapter (3.1-3.6) molecular formulas and naming
		Lecture will not meet on labor day.
3	9/14 – 9/18	**Online Homework: 1127 HW 1 (chapter 1 and 2)**
		Pre lab: Pre lab 1 due before lab 1 starts
		Lab: (sections 001L-037L and 101L-135L) Check in and Experiment (Mass/volume) (data entered by 9/20) Remember to bring your goggles to lab.
		Lecture: Chapter 3 end (chemical formulas and the mole)
4	9/21 – 9/25	**Online Homework: 1127 HW2 (Chapter 3)**
		Pre lab: Pre lab 1 due before lab 1 starts
		Lab: (sections 052L-87L and 151L-185L) Check in and Experiment (Mass/volume) (data entered by 9/27) Remember to bring your goggles to lab.
		Lecture: Chapter 4 (chemical equations and types of reactions)
5	9/28 – 10/2	**Online Homework: 1127 HW3 (Chapter 4)**
		Pre lab: Pre lab due before start of lab
		Lab: Experiment (chemical formula) (data entered by 10/4)
		Lecture: Chapter 5 (stoichiometry, molarity and titration) **Exam 1 (chapter 1-3) 10/1 or 10/2**
6	10/5 – 10/9	Online Homework: **1127 HW4 (Chapter 5)**
		Pre lab: Pre lab due before start of lab
		Lab: Experiment 4 (chemical formula) (data entered by 10/11)
		Lecture: Chapter 6 part 1(thermodynamics- heat and calorimetry)
7	10/12 – 10/16	Online Homework: **1127 HW5 (Chapter 6 part 1 Heat and calorimetry)**
		Pre lab: Pre lab due before start of lab
		Lab: Experiment (gravimetric analysis) (data entered by 10/18)
		Lecture: Chapter 6 (enthalpy) Chapter 7(Ideal gas equation)

8	10/19 – 10/23	**Online Homework: 1127 HW6 (end of chapter 6 enthalpy)**
		Pre lab: Pre lab due before start of lab
		Lab: Experiment (gravimetric analysis) (data entered by 10/25)
		Lecture: Chapter7 (Stoichiometry, partial pressure and kinetic theory)
9	10/26 – 10/30	**Online Homework: 1127 HW7 (chapter 7 gases)**
		Pre lab: Pre lab due before start of lab
		Lab: Experiment (thermodynamics) (data entered by 11/1)
		Lecture: Chapter 8(light, Bohr model, quantum numbers)
10	11/2 – 11/6	**Online Homework: 1127 HW8 (chapter 8)**
		Pre lab: Pre lab due before start of lab
		Lab: Experiment (thermodynamics) (data entered by 11/8)
		Lecture: Chapter 9 (periodic trends, ionic bonding, lattice energy)
		Exam 2 (chapter 4-6) 11/5 or 11/6
11	11/9 – 11/13	**Online Homework: 1127 HW9 (chapter 9)**
		Pre lab: Pre lab due before start of lab
		Lab: Experiment (gas behavior) (data entered by 11/15)
		Lecture: Chapter 10 (covalent bonds, Lewis structures, bond energy)
12	11/16 – 11/20	**Online Homework: 1127 HW10 (chapter 10)**
		Pre lab: Pre lab due before start of lab
		Lab: Experiment (gas behavior) (data entered by 11/22)
		Lecture: Chapter 11(molecular shapes, hybrid orbitals, MO theory)
	11/23-11/27	**THANKSGIVING BREAK**
13	11/30 – 12/4	**Online Homework: 1127 HW11 (chapter 11)**
		Pre lab: Pre lab due before start of lab
		Lab: Emission Lines lab (Data entered by 12/6)
		Lecture: Finish chapter 11 start chapter 12
		Exam 3 (chapter 7-10) 12/3 or 12/4
14	12/7-12/11	**Online Homework: 1127 HW12 (chapter 12)**
		Pre lab: Pre lab due before start of lab
		Lab: Emission Lines lab (Data entered by 12/13)
		Lecture: Chapter 12 (intermol forces, phase diagrams, unit cells)
		ACS FINAL EXAM: (chapter 1-12) Check Student Admin for Final exam date and time for confirmation. Tentative scheduled 12/18