

CHEM 1125Q LAB SYLLABUS --- SPRING SEMESTER 2023

Syllabus information may be subject to change. The most up-to-date syllabus is located within the lab course in ***HuskyCT***.

COURSE AND INSTRUCTOR INFORMATION

Course Title: CHEM 1125Q LABORATORY
Format: IN PERSON and/or DISTANCE LEARNING (Synchronous and Asynchronous depending on the university's COVID Policies and guidelines)
Prerequisites: CHEM 1124Q; Open by consent from instructor for 1 credit to lab students who have passed CHEM 1127, 1137, or 1147. Not open to students who have passed Chem 1128, 1138, or 1148.

Follows CHEM 1124Q. Topics include the properties of aqueous solutions and chemical equilibria.

Professor/Instructor/Facilitator: Mary Sol M. Keesey (I would appreciate and prefer you address me as Professor Keesey or Ms. Keesey. Thank you.)
Pronouns: She/her/hers
Email: *mary_sol.keesey@uconn.edu*
Telephone: 959-200-3787

Office Hours/Availability: By appointment. If you have questions or concerns, please do not hesitate to email me. I will get back to you within 24 hours during weekdays and if available, will be able to meet you In Person (HTB Room 307) or via *WebEx*. This will be the link to my *WebEx* meeting: *https://uconn-cmr.webex.com/meet/msk11007*
Please provide information about the purpose of the meeting or the types of things you want to discuss with me. I may not reply to your emails after *7:00 PM*.

COURSE MATERIALS

Required Materials:

1. You are *required* to bring your own electronic device such as a laptop to complete and submit *ALL* the assessment tests for each experiment. Failure to bring one might delay the completion of the assessment tests.

2. *Dr. Stephen Barshay*, your lecture professor will be posting *ALL* the Chem 1125 experiments in your *HuskyCT* Chem 1125 lecture section. Please print these ahead of time as these will serve as your laboratory manual. You will have access to all the experiments before your first laboratory meeting.

   Your *MANDATORY* Laboratory Safety Training is scheduled on *Tuesday*, *January 31 2023* at *9:30 AM to 12:30 PM*. ***FAILURE*** to attend and complete the training will prohibit you from continuing with the lab portion of this course.

COURSE DESCRIPTIONS

The laboratory component of this course is *in-person* modal. The remaining laboratory materials for this course will be available through your *HuskyCT laboratory section*.

COURSE REQUIREMENTS

Prior to the Scheduled Lab:

1. You are expected to read and understand the experimental procedure before your scheduled lab. Also, *underline* or *highlight* important data in the experiment. This will give you a better understanding of what you will be doing in the lab.

2. Print and bring a copy of the *underlined* or *highlighted* experiment before entering the lab. I will be checking on this.

3. Pre-lab test for the experiment will be posted on *HuskyCT* at least one week prior to the scheduled experiment. However, it should be completed *exactly* before your scheduled lab, i.e. before *9:30 AM*. You have *two* attempts to complete this and the highest score will be taken. A total of 5 points are assigned to this test.

4. You are required to *always* wear lab safety goggles in the lab. During the lab safety training, each student will receive a laboratory coat.

5. It is necessary to wear long pants, long socks, and closed-toed shoes before entering the lab.

During the Scheduled Lab:

1. Please be present during your assigned laboratory schedule as this is the time to ask your laboratory instructor for questions you might have about the experiment.
2. I will be showing you the video and/or PowerPoint related to the lab during this time.
3. You are to complete the Data and Calculation Assessment Test and the Post Lab Test within the 3-hour scheduled lab period as these will be available *only* during this time.
4. Data and Calculation Assessment test will be 15 points and Post Lab test is 5 points. A total of 25 points for each experiment. You only have *one* attempt to complete both tests so make sure to do your best.
5. Also, if you are unable to complete the lab experiment, it is *IMPORTANT* to email your lecture professor, Dr. Stephen Barshay *within 24 hours* you missed the lab and copy furnish me on this email. *ONLY* Dr. Barshay has the authority to give an excused absence from the lab.
6. Furthermore, more than one unexcused absence in the lab constitutes an "F" grade for the course even if the lecture grade is passing. However, you are allowed *one* excused absence from the lab with an accompanying valid documentation. This can be a doctor's note, or any legal document that will suffice your absence from the lab.
7. Finally, if you are aware of a known and legitimate conflict with one of your experiments' schedules, please contact Dr. Barshay and me ahead of time but make up lab is not a guarantee.

IMPORTANT INFORMATION

All of us in the lab, you, me, your peers, have a responsibility to create an environment in which we can all learn from each other. I expect everyone to participate in class, whether in-person or distance learning so, that we can all benefit from the insights and experiences that each person brings.

The first laboratory meeting is a *MANDATORY* Laboratory Safety Training. *PARTICIPATION* is a *MUST* ! If you do not complete this training, you will not be able to continue with the lab.

I will go over the Laboratory Safety Policies and Procedures with you and show you the UCONN Hartford Chemistry Lab Safety Video. You will then complete, submit the required "Laboratory Safety Policies and Procedures Agreement" and take the Laboratory Safety Quiz. You will find all these in your *HuskyCT* lab section. The total score for this safety training is 5 points for completing, submitting the lab safety agreement and the Lab Safety Quiz. However, you *MUST* have a perfect score for the lab safety quiz to pass the laboratory safety training.

A baseline lab testing, based on familiarity with laboratory glassware, equipment, and laboratory techniques, will also be administered during this time. This test will evaluate what you have learned and retained from your previous lab course; the result will be recorded but not included in the grading scheme. The recorded score will be compared to the lab summative assessment test at the end of semester to evaluate whether any improvement to learning has occurred.

Finally, there will be a lab summative assessment following the laboratory check-out. The total score for this is 25 points.

COURSE OBJECTIVES

By the end of the semester, you should be able to:

- Understand the interdisciplinary nature of chemistry and be able to integrate knowledge of mathematics and other disciplines to a wide variety of chemical problems.
- Develop intuition and deepen understanding of chemical concepts.
- Apply concepts learned in class to new situations.
- Develop critical and quantitative thinking.
- Develop experimental and data analysis skills.
- Be familiar with some scientific apparatus and their uses.
- Learn basic laboratory techniques through visual aids.
- Practice collaborative problem solving.

COURSE GRADING

Course Components	Weight
Pre-lab Test	5 points/experiment
Data and Calculation Assessment Test	15 points/experiment
Post-lab Test	5 points/experiment
Total score per experiment	25 points
***Laboratory Safety Training and Lab Summative Assessment	5 points + 25 Points = 30 Points

CHEM 1125 SPRING 2023 LABORATORY SCHEDULE

DATE	EXPERIMENT
Tuesday, January 17	**No labs**
Tuesday, January 24	**No labs**

Tuesday, January 31	**Lab Safety Training, Lab Check-in, and Baseline Lab Testing**
Tuesday, February 7	**Molar Mass of a Volatile Liquid**
Tuesday, February 21	**Heat Effects and Calorimetry**
Tuesday, March 7	**Molar Mass Determination by Depression of the Freezing Point**
Tuesday, March 14	**SPRING BREAK**
Tuesday, March 28	**Thermodynamics Measurement**
Tuesday, April 11	**Determination of the Equilibrium Constant**
Tuesday, April 18	**Make-up lab to cover for a snow day, Lab Check-out, and Lab Summative Assessment Test**

DUE DATES AND LATE POLICY

All course due dates are identified in each experiment's learning module at HuskyCT. Deadlines are based on Eastern Time unless otherwise specified.

The instructor reserves the right to change dates accordingly as the semester progresses. All changes will be communicated in an appropriate manner.

As for late policy, pre-lab, data and calculation, and post-lab assessment tests are considered late after their due dates posted on HuskyCT. Two points will be deducted for each late submission.

FEEDBACK AND GRADES

I will make every effort to provide feedback and grades after you have completed all the assessment tests. To keep track of your performance in the course, refer to My Grades in HuskyCT.

WEEKLY TIME COMMITMENT

You should expect to dedicate a couple of hours a week to this course. This expectation is based on the various course activities, assignments, and assessments and the *University of Connecticut's policy regarding credit hours*. (More information related to hours per week per credit can be accessed at the *Online Student website)*.

STUDENT AUTHENTICATION AND VERIFICATION

The University of Connecticut is required to verify the identity of students who participate in In-Person with required online submissions or in Distance Learning modal. This is to establish that students are the same students who participate in and complete the course activities and assessments and receive academic credit. Verification and authentication of student identity in this course will include:

Secure access to the learning management system, i.e., *HuskyCT* using your unique UConn NetID and password.

HOW TO SUCCEED IN THIS COURSE

You can all succeed in this lab course, and I am here to help you along the way. Please do not hesitate to ask questions or miss lab meetings, as this is the best time to deal with your questions and concerns. All questions are important to me. Success in this lab course depends on your health and well-being. Acknowledge that stress is an expected part of the college experience, and it often can be compounded by unexpected setbacks or life changes outside the classroom. I encourage you to reevaluate challenges as an unavoidable pathway to success. Think about your role in taking care of yourself throughout the semester before the demands of exams and projects reach their peak. You should expect to dedicate 3 to 5 hours a week to this course. Make sure to give yourself time to answer all the test questions and try to be on time as participation in the lab meeting is critical to your success in the lab. Please feel free to reach out to me about any difficulty you may be having that may impact your performance in your courses or campus life as soon as it occurs and before it becomes too overwhelming. In addition to your academic advisor, I strongly encourage you to contact the many other support services on campus that stand ready to assist you.

Links to student resources that might be helpful:

Dean of Students Office, Academic Achievement Center, Writing Center, Quantitative Learning Center, Center for Students with Disabilities, Title IX Office, Student Health and Wellness -- Mental Health, etc.

HUSKY STUDY GROUP

Are you interested in forming a study group with other students in the class? There is a study group application in Nexus that can help you get started. Feel free to watch this *video* for more information.

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 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

Please stay home if you are feeling ill and please go home if you are in class and start to feel ill. If illness prevents you from attending class, it is your responsibility to notify Dr. Stephen Barshay and me as soon as possible. You do not need to disclose the nature of your illness, however, you will need to work with both of us to determine how you will complete coursework during your absence.

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. Regional campus students should email the Student Services staff at their home campus to request support and faculty notification.

COVID Specific Information: People with COVID have had a wide range of symptoms reported – ranging from mild symptoms to severe illness. These symptoms may appear 2-14 days after exposure to the virus and can include:

- Fever,
- Cough,
- Shortness of breath or difficulty breathing.
- Chills
- Repeated shaking with chills
- Muscle pain
- Headache
- Sore throat
- New loss of taste or smell

Additional information including what to do if you test positive or you are informed through contract tracing that you were in contact with someone who tested positive, and answers to other important questions can be found here: *https://studenthealth.uconn.edu/updates-events/coronavirus/*

CLASSROOM GUIDELINES

RECORDING LAB MEETINGS

Laboratory part for this semester's course will be conducted In-Person. To protect student privacy and intellectual property rights, students are prohibited from recording any session, or any portion of a session, by other means.
Please remember that the unauthorized recording or sharing of course content may be considered a violation of the law, University policy, and/or The Student Code.

STUDENT RESPONSIBILITIES AND RESOURCES

As a member of the University of Connecticut student community, you are held to certain standards and academic policies. In addition, there are numerous resources available to help you succeed in your academic work. Review these important *standards, policies, and resources,* which include:

- The Student Code
  - Academic Integrity
  - Resources on Avoiding Cheating and Plagiarism
- Copyrighted Materials
- Credit Hours and Workload
- Netiquette and Communication
- Adding or Dropping a Course
- Academic Calendar
- Policy Against Discrimination, Harassment, and Inappropriate Romantic Relationships
- Sexual Assault Reporting Policy

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. 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/.*

Blackboard measures and evaluates accessibility using two sets of standards: the WCAG 2.0 standards issued by the World Wide Web Consortium (W3C) and Section 508 of the Rehabilitation Act issued in the United States federal government." (Retrieved March 24, 2013 from *Blackboard's website*)

SOFTWARE/TECHNICAL REQUIREMENTS (WITH ACCESSIBILITY AND PRIVACY INFORMATION)

The software/technical requirements for this course include:

- Equipment Recommendations (*https://remotework.uconn.edu/equipment-recommendations/*)
- HuskyCT/Blackboard (*HuskyCT/ Blackboard Accessibility Statement*, *HuskyCT/ Blackboard Privacy Policy*)
- *Adobe Acrobat Reader* *(Adobe Reader Accessibility Statement*, *Adobe Reader Privacy Policy)*

- Google Apps (*Google Apps Accessibility*, *Google for Education Privacy Policy*)
- Microsoft Office (free to UConn students through *uconn.onthehub.com*) (*Microsoft Accessibility Statement*, *Microsoft Privacy Statement*)
- Dedicated access to high-speed internet with a minimum speed of 1.5 Mbps (4 Mbps or higher is recommended).
- WebCam

PRIVACY STATEMENT

For information on managing your privacy at the University of Connecticut, visit the *University's Privacy page*. NOTE: This course has NOT been designed for use with mobile devices.

HELP

Technical and Academic Help provides a guide to technical and academic assistance.

This course uses the learning management platform, *HuskyCT*. If you have difficulty accessing HuskyCT, you have access to the in person/live person support options available during regular business hours through the *Help Center*. You also have *24x7 Course Support* including access to live chat, phone, and support documents.

STUDENT TECHNOLOGY TRAINING

Student technology training is now available in a new HuskyCT short course created by students for students. It will prepare you to use the IT systems and services that you will use throughout your time at UConn, whether learning online or on-campus. It is available at *https://lms.uconn.edu/ultra/courses/_80016_1/cl/outline* .

MINIMUM TECHNICAL SKILLS

To be successful in this course, you will need the following technical skills:

- Use electronic mail with attachments.
- Save files in commonly used word processing program formats.
- Copy and paste text, graphics, or hyperlinks.
- Work within two or more browser windows simultaneously.
- Open and access PDF files.

EVALUATION OF COURSE EXPERIENCE

Students will be given an opportunity to provide feedback on their course experience and instruction using the University's standard procedures, which are administered by the *Office of Institutional Research and Effectiveness (OIRE)*.

The University of Connecticut is dedicated to supporting and enhancing teaching effectiveness and student learning using a variety of methods. The Student Evaluation of Teaching (SET) is just one tool used to help

faculty enhance their teaching. The SET is used for both formative (self-improvement) and summative (evaluation) purposes.

Additional informal formative surveys and other feedback instruments may be administered within the course.