

## CHM 101 Introduction to Chemistry Lab Section 19435 Syllabus

### INTRODUCTION TO COURSE AND INSTRUCTOR

<b>Semester</b> Spring 2023	<b>Program/Department</b> Chemistry
<b>Course Name</b> Introduction to Chemistry Lab	<b>Instructor Name</b> Tiffany Man, Ph. D. <b>E-Mail:</b> <a href="mailto:tiffany.man@csi.cuny.edu">tiffany.man@csi.cuny.edu</a>
<b>Credits and Hours</b> 1 credit, 2 lab hours	<b>Office Location</b> 6S-252 <b>Office Hours:</b> Wednesday 11:30 am – 12:15 pm
<b>Mode of Instruction</b> In Person	<b>Course Website</b> CUNY Blackboard
<b>Section 19435</b>	
<b>Time 12: 20 pm to 2: 15 pm</b>	<b>Location</b> 6S-251
<i>If there are questions or concerns that you have about this course that you and I are not able to resolve, please feel free to contact the Chair of the department to discuss the matter.</i>	
<b>CHAIR/PROGRAM DIRECTOR'S NAME</b>	Qiao-Sheng Hu
<b>DEPARTMENT NAME</b>	Chemistry
<b>CHAIR/PROGRAM DIRECTOR'S EMAIL</b>	<a href="mailto:Qiaosheng.Hu@csi.cuny.edu">Qiaosheng.Hu@csi.cuny.edu</a>
<b>DEPARTMENT/PROGRAM PHONE NUMBER</b>	718-982-3900

### COURSE DESCRIPTION AND PRE/COREQUISITES

A laboratory course emphasizing basic chemical laboratory techniques. The experiments provide illustrations of concepts discussed in CHM 100.

Co-requisite: CHM100

### REQUIRED COURSE MATERIALS

- *Introduction to Chemistry Laboratory CHM101* Available ONLY at CSI online bookstore. DO NOT rent the lab manual online because you are required to use the original data sheets and post lab pages from the lab manual in the lab. Photo copies are not accepted.
- *CSI Handout*. Will be available on Blackboard.
- CUNY Blackboard Access
- Scientific calculator with logarithm function

### COURSE GOALS AND STUDENT LEARNING OUTCOMES

- (1) The student will learn how to work safely in a chemical laboratory

(2) The student will demonstrate knowledge of the use of chemical experimental setups and basic lab techniques and skills

(3) The student will be able to make observations and take lab notes

(4) The student will be able to collect and analyze data

## **COURSE REQUIREMENTS/ASSIGNMENTS**

### **Safety and Cleanliness:**

- **We strictly follow CUNY and CSI safety guidelines, including mask wearing, social distance and vaccination guidelines.**
- Safety is extremely important in chemistry laboratory. To be safe, you should be aware of the safety policies and practices in your laboratory manual safety section. You must sign the lab safety agreement and be checked by your instructor before you perform any experiment in the lab.
- Lab bench should be wiped clean before you leave the lab. All glassware should be cleaned and stored in the original location before you leave the lab.
- Safety goggle should be worn at any period of the class. You are not allowed to be in the laboratory without wearing the safety goggle. Gloves should be worn when you handle any chemicals. Cell phone usage is not allowed during the lab including phone charging. Please keep your cell phone in your bag to avoid contamination by chemicals and distraction. **Scientific calculator** is required for calculation.
- You will be deducted 1 point for each violation from your final score.

### **Class Attendance and Withdraw Policy:**

- You are required to attend each class **on time**. A discussion of each experiment will be provided before you start the experiments and the in-class quizzes will also be held at the beginning of your class. No make-up lab, quiz and exam will be arranged. **Lateness is not acceptable.**
- You need to complete the experiments during the class hour in order to receive credit for the course.
- If you miss **two** lab classes, you will receive an **F** grade regardless your final score of the course.
- According to CSI's Spring 2023 Academic Calendar, the last day to withdraw with the grade of "W" is May16, 2023.

### **Lab Reports**

- **Pre-lab (15%):**  
Being prepared for a science lab is essential. You should read the lab manual contents to know the objective, background and procedure of the experiment before you attend the lab course. Pre-lab questions will be assigned to you the week before the experiment. Pre-lab counts 15% of your lab grade.
- **Lab notes, data sheet and post lab questions (50%):**

In each lab, data sheets, notes and results should be finished within the lab period and be checked by the instructor before you leave the lab. It is important to make records while you are doing the experiment so that you have the accurate data and observations to help you draw the right conclusion. Record your lab record clearly, accurately and completely. Post lab questions will be assigned to you in each class and is due the following week of class. These questions will help you consolidate what you have learned from the experiments. Lab notes, data sheet and post lab assignment count 50% percent of your lab grade.

- Post lab report packet should be submitted on the following week class day in a single packet in the order of *data sheets/calculation and post-lab assignment*. You must turn in your lab report packet before the beginning the class to earn the credit. If you are absent, no post-lab including data sheet, post-lab assignment and experiment discussion of the lab will be accepted and graded.
- Pre-lab quiz and post-lab packet counts 65% of the lab grade. Late report packet will be accepted but you will receive a penalty by losing 3 points per late day per assignment (9 points will be deducted if you turn in your post-lab packet one day late). Lab reports later than one week will not be accepted.

### Midterm Exam and Final Exam

- One midterm exam will be given in the middle of the semester in class. Midterm exam date will be March 8, 2023
- Department Final exam day for Chemistry is May 18, 2023.
- No make-up labs, quizzes and exams will be arranged.

### Attitude:

- Disruptive behavior is unacceptable in the lab, and will NOT be tolerated. Late arrival, noisy devices, inconsiderate behavior, and talking during lectures, will not be tolerated. Discussion of scientific issues is highly welcome to advance our knowledge, but emotional arguments and quarrels are prohibited.

### GRADING POLICY AND EVALUATION

The course final grade is based on the following:

Lab reports: 65 %

Midterm Exam: 10 %

Final Exam: 20 %

Attendance and class participation: 5 %

### SUBJECT TO CHANGE STATEMENT

This syllabus and course calendar/schedule are subject to change in the event of extenuating circumstances.

### ***CUNY POLICY ON ACADEMIC INTEGRITY***

Academic dishonesty is prohibited in The City University of New York. Penalties for academic dishonesty include academic sanctions, such as failing or otherwise reduced grades, and/or disciplinary sanctions, including suspension or expulsion. This policy also defines example of academic dishonesty: cheating, plagiarism, obtaining unfair advantage, and falsification of records and official documents. Please visit the following website to read the full policy: [https://www.csi.cuny.edu/sites/default/files/pdf/privacy/cuny\\_academic\\_integrity.pdf](https://www.csi.cuny.edu/sites/default/files/pdf/privacy/cuny_academic_integrity.pdf)

You will work with your lab partner during the experiment. You help with each other while doing the experiment. However, you must work independently on your pre-labs, data sheet/calculation and post-labs. You shouldn't copy any other person's work including any online resources as your own. Students must work independently on all quizzes and exams. Any forms of cheating or plagiarism in lab report or tests will result in a zero point for your assignment and may result an **F** grade of the course. Also, any academic dishonesty will be reported to the college authority.

### ***REASONABLE ACCOMODATIONS AND ACADEMIC ADJUSTMENTS***

The City University of New York, in compliance with Section 504 of the Federal Rehabilitation Act of 1973 ("Rehabilitation Act"), the Americans with Disabilities Act of 1990 ("ADA"), New York State Executive Law §296, and New York City Human Rights Law, provides qualified individuals with disabilities the opportunity to participate in programs, activities, or employment. For more information and access to the full policy please visit: <https://www.csi.cuny.edu/about-csi/diversity-csi/office-diversity-compliance/reasonable-accommodations-and-academic-adjustments>

### ***STUDENTS WITH DISABILITIES***

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe that you have a disability requiring an accommodation, please contact the Center for Student Accessibility at 718.982.2510/ [CSA@csi.cuny.edu](mailto:CSA@csi.cuny.edu). For more information please visit: [www.csi.cuny.edu/csa/](http://www.csi.cuny.edu/csa/).

### ***TUTORING AND ACADEMIC ASSISTANCE***

The College offers tutoring to students, free of charge. For a complete list of the Tutoring Centers please visit <https://www.csi.cuny.edu/students/academic-assistance/tutoring>

### ***CAMPUS (CIX) EMAIL***

Students are expected to check campus (cix) email regularly. Students must recognize that certain communications, may be time-sensitive, and they may be required to monitor email on a more frequent basis than determined by instructional needs. If students have issues accessing their campus (cix) email please email the [helpdesk@csi.cuny.edu](mailto:helpdesk@csi.cuny.edu) or visit the [Virtual Computer Lab](#).

General announcements and course related materials will be posted on Blackboard. If you are from another school, make sure your email address on Blackboard is up to date. All announcements will be either announced in class or emailed through Blackboard.

## Lab Schedule

Week	Date	Experiment	Lab material	Pre-lab/ Exam	Reports	Report due
1	1/25	Check In and Lab Safety	Lab manual			
2	2/1	Heating in the laboratory	Lab manual	Pre-lab 2	Report 2	2/8
3	2/8	Observing Chemical Change	Lab manual	Pre-lab 3	Report 3	2/15
4	2/15	Identification of a Substance	Lab manual	Pre-lab 4	Report 4	2/22
5	2/22	Separation of a mixture	Lab manual	Pre-lab 5	Report 5	3/1
6	3/1	Glassware in the lab, Density Determination	Lab manual	Pre-lab 6	Report 6	3/8
7	3/8	Names and formulas of ionic compounds	Lab manual	Pre-lab 7 <b>Midterm exam</b>	Report 7	3/15
8	3/15	Chemical reactions	Lab manual	Pre-lab 8	Report 8	3/22
9	3/22	Identification of a cation	Lab manual	Pre-lab 9	Report 9	3/29
10	3/29	Properties of some metallic elements	Lab manual	Pre-lab 10	Report 10	4/19
11	4/19	Counting molecules	Lab manual	Pre-lab 11	Report 11	4/26
12	4/26	Introduction to stoichiometry	Lab manual	Pre-lab 12	Report 12	5/3
13	5/3	Preparation of solution and dilution	Lab manual	Pre-lab 13	Report 13	5/10
14	5/10	Review and Check out				

## Student agreement

### CHM 101 INTRODUCTION TO CHEMISTRY I LABORATORY

Spring 2023

Section: 19435

Please read the laboratory syllabus and policy carefully. Sign and return this form to your instructor.

By signing this form, you agree to abide by the following rules:

(1) I have thoroughly read the information above and I understand the policies of the laboratory.

(2) I agree that cheating, copying or plagiarism of any laboratory reports and tests will result in a failing grade

Print Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_