

# CHEM 32C (10486) General Chemistry Spring 2023\*

## I. Lecture

Lecturer: Erik Ruggles, Ph.D.

Office: Innovation 333 or Virtual Ethereal

Email: [Erik.Ruggles@uvm.edu](mailto:Erik.Ruggles@uvm.edu)

Office Hours: In Office M/W/F 9:30-11:30am or Virtual Of54

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Extra Practice : For added examples, blank old exams from my 2021 and 2019 classes, SI Sessions, as well as their an

## II. Laboratory

Lab Manuals: All experiments can be found online on your X U O D E ¶ V % % in Z N i C u a l l p w s H D V . Please make sure you print out each experiment and bring to lab .

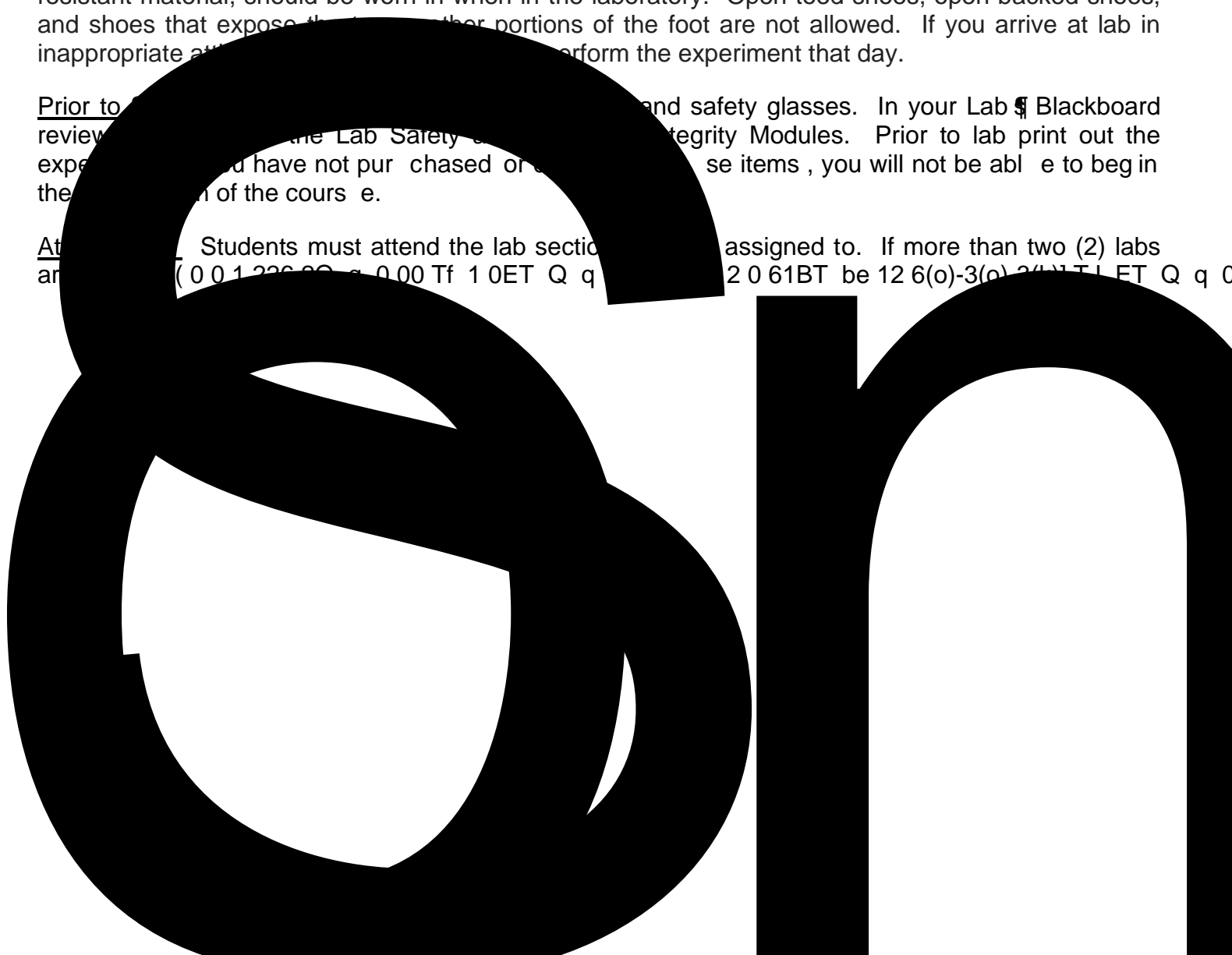
Lab Notebook : A notebook with carbon-less copies is required for recording lab data. All data is to be recorded in ink (not pencil). A carbon-less copy lab notebook can be bought at UV 0 ¶ V E s t o r e . N

Safety Eye Wear: Everyone in the lab must wear OSHA approved (EZ87 stamped) safety glasses or goggles once any experimentation has been started. Students not observing this rule will receive a ZERO for the experiment, warnings will not be given. Safety eyewear can be purchased at the UVM bookstore. Contact Lenses are a potential health hazard and can be worn in the laboratory only if no other types of corrective lenses are available. If you have to wear contact lenses then you must wear goggles and please let your TA know.

Lab Attire : This is a chemical laboratory dress appropriately! It is best to wear full pants and a shirt with at least short sleeves. Shorts and short pants (capris, crops, etc.) are not allowed in the laboratory. Shirts that expose the shoulders, midriff, or back are also not allowed. Proper footwear is also necessary in the laboratory. Full shoes, preferably constructed of leather or other chemically resistant material, should be worn in when in the laboratory. Open toed shoes, open backed shoes, and shoes that expose the rest of other portions of the foot are not allowed. If you arrive at lab in inappropriate attire you will not be allowed to perform the experiment that day.

Prior to lab you must wear safety glasses. In your Lab ¶ Blackboard review the Lab Safety and Integrity Modules. Prior to lab print out the experiment and have not purchased or used these items, you will not be able to begin in the lab for the rest of the course.

Attendance Students must attend the lab section assigned to. If more than two (2) labs are missed (0 0 1 226 00 q 0 00 Tf 1 0ET Q q 2 0 61BT be 12 6(o)-3(o) 2(1) T J ET Q q 0



For all missed labs, please follow the procedure listed below:

- 1) Follow all UVM and local COVID guidelines, including testing when symptomatic or identified as a close contact.
- 2) Contact the lab supervisor, Christine Cardillo ([Christine.cardillo@uvm.edu](mailto:Christine.cardillo@uvm.edu)), and their TA as soon as they are aware they will be unable to attend lab.
  - a. In the subject line of the email, include your last name, the course you are in, and your lab section (e.g. McChemist CHEM032 L99)
  - b. Please share as much information about the situation as you are comfortable with, especially regarding the reason for and length of your absence
  - c. Failure to contact Christine and your TA in a timely fashion (no later than one week after the missed lab) will result in a zero for any missed lab
- 3) Contact your academic advisor to request an absence.
- 4) If your initial absence gets extended, it is your responsibility to repeat steps 2 and 3 and communicate the need for additional flexibility.

Lab Videos: Prior to attending your lab it is mandatory to view the video that accompanies the lab. These videos demonstrate the proper use of new equipment and the safe handling of chemicals. Videos can be found at: <https://www.youtube.com/channel/UC8r6fR2K-8xAtsf-a8edMg>.

Laboratory Format: Each laboratory period is scheduled for 2 hours and 45 minutes. This time includes recitation, pre-lab overview, performing the weekly experiment, lab clean-up, and lastly time for post-lab calculations. When you first arrive to lab you should turn in your pre-lab for the current period. Each lab period will start with recitation, where you will work in groups on selected problems relating to both the current lecture and lab content. Recitation is followed by a brief pre-lab overview led by your TA, leading to the start of experimental work. All experimental work

### III. Course G rade

#### Percent Ranges for Grades:

I cannot say in advance which point ranges correspond to which letter grades, but I will give approximate correlations throughout the semester following each of the exams. Please note that you are not competing with each other for grades in this course: if everyone scores in the "A-range," I will give everyone "A"s for the course (really!). I encourage you all to work together as you study, to help each other learn the material, but do also recognize that all graded work must be solely your own, so be prepared to work independently to demonstrate your mastery of the material.

#### How to Calculate Your Points:

- 1) Class = 750 total points (75% of grade; exams and homework)
  - 1a) Mid-Semester Exams = 375 points (125 points/exam)
  - 1b) Homework = 100 points (12.5 points/assignment)
  - 1c) Final Exam = 275 points

There are three mid-semester exams (each 125 points) and a final exam (275 points). If your final is your lowest grade it will count only as one unit. If one of the mid-semester exams is your lowest grade then your final will count as two units. The lowest mid-semester exam grade will be replaced by the percentage on the final. If you are absent from an exam official documentation of sickness or family crisis is required or you will receive a ZERO for the exam. Students with legitimate excuses will be permitted to take the exam early. Except in very unusual circumstances makeup exams will not be administered after the scheduled exam time.

Example 1:	Exam 1	Exam 2	Exam 3	Final
Actual Scores:	106.25 (85%)	56.25 (45%)	97.5 (78%)	187.5 (75%)
Counted Scores:	106.25 (85%)	93.75 (75%)	97.5 (78%)	187.5 (75%)

Homework Score: 84.0 (84%) Class Points = 485.0 exam + 84.0 homework

Total = 569.0 points

Example 2:	Exam 1	Exam 2	Exam 3	Final
Actual:	87.5 (70%)	97.5 (78%)	95.0 (76%)	170.0 (68%)
Counted:	87.5 (70%)	97.5 (78%)	95.0 (76%)	170.0 (68%)

Homework Score: 70.0 (70%) Class Points = 446.25 exam + 70.0 homework

Total = 516.5 points



## IV. Tentative Lecture Schedule and End-of-





## V. Laboratory Schedule

Jan 17-20	No Lab	Purchase lab notebook and safety glasses. On Blackboard, review lab syllabus and schedule.
Jan 23-27	Lab Check In	On Blackboard, review and complete the Safety Presentation and Safety Quiz
Jan 30-Feb 3	Experiment 1 Lecture Correlation	Freezing Point Depression Module 13
Feb 6-10	Experiment 2 Lecture Correlation	Iodination of Acetone Module 14
Feb 13-17	Experiment 3	$K_{eq}$ of re 12 Tf 1 0 S6 Tm0000912 0 612 792 6

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Module 1

## VI. ACCESS Accommodations

### Student Learning Accommodations Statement

In keeping with University policy, any student with a documented disability interested in utilizing accommodations should contact ACCESS, the office of Disability Services on campus. ACCESS works with students to create reasonable and appropriate accommodations via an accommodation letter to their professors as early as possible each semester.

Contact ACCESS: A170 Living/Learning Center - 802-656-7753 -



Prism Center: The Prism Center serves the diverse queer and trans communities at the University of Vermont. We support and empower lesbian, gay, bisexual, transgender and queer students, as well as students whose identities fall in between or expand beyond those categories, and work to create a campus community where people of all sexual and gender identities can thrive.

<https://www.uvm.edu/prism>

UVM Women & Gender Equity Center: The equity center cultivates joyful community while advancing gender equity across identities. We envision a brave, diverse, and equitable learning environment for all members of the UVM community. We provide advocacy services for those in our community who have experienced sexual or intimate partner violence, and strive to provide programming, education, and events that ask our community to explore the intersections of their gender and other identities. <https://www.uvm.edu/wagecenter>

## XII. Grade Appeals

If you would like to contest a grade, please follow the procedures outlined in this policy:

<https://www.uvm.edu/policies/student/gradeappeals.pdf>

For information on grading and GPA calculation, go to <https://www.uvm.edu/registrar/grades>

## XIII. FERPA Rights Disclosure