

CHEM 31 (60064): General Chemistry Summer 2020*

I. Lecture

Lecturer: Erik Ruggles, Ph.D.

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Email: Erik.Ruggles@uvm.edu

Office Hours: Mon-Thurs, 8:00am-11:00am
(Virtual Chat; Zoom or Teams)

Virtual Class Time: Mon-Thurs (8am-11am) **Location:** Your Work Station

Textbook: There are three options to purchase nd Ed., by Tro (Full text ISBN-13: 978-0-13-429393-6) along with Mastering Chemistry online access. 1) It can be purchased at an online site (~\$300; text and mastering), or 2) at the UVM bookstore (~\$160; text, solutions manual, and mastering), or 3) digital access (~\$120; etext and mastering). The digital solutions manual will be provided for free but also comes with the UVM package and has the complete solutions to all the assigned problems. The most bang for your buck is the UVM bookstore package (2), but the most economical is digital access (3).

Lecture: The video lectures for discussions Monday-Thursday will be used to cover new material and concepts along with sample problem solving. They will be assigned the day before virtual class meetings and you are expected to watch the lecture prior to virtual class time. My video lecture notes will also be posted in pdf format on BlackBoard.

Assignments: The assignments are broken down into Modules. Each module contains Lecture Videos, Textbook Sections Covered and Homework Problem Sets. They will be assigned the day before virtual class meetings and you are expected to do your best to complete the module prior to virtual class time. I strongly encourage you to do as many problems as possible, the more you practice the better you will get.

Virtual Class Time: Class will be held virtually from 8am-11am Monday-Thursday. Class is meant for question and answers. The module assigned should be finished prior as I want to use this time to clarify lecture concepts and homework problems. I will be omnipresent on Discussion Boards (within BlackBoard) for question and answer. I will also be available by email as much as possible.

Extra Practice: For added examples, blank old exams from my 2018 and 2017 classes, SI Sessions, as well as their answer keys are posted on BlackBoard. Remember that even though questions will change from year to year, the concepts will remain the same. ***Do not study with just the old exams!*** The Meat and Potatoes, or Seitan and Broccoli, is in the Homework Problems. Also there are homework problem videos post

Exams: The exams are scheduled to be on either ***Friday mornings from 9:00am-12:00pm (there will be some time flexibility)***. There are no scheduled make up dates. Only non-programmable non-graphing calculators are permitted. No other electronic devices are allowed.

Exam Dates:

Exam 1 May 22 (Friday)

Exam 3 June 5 (Friday)

Exam 2 May 29 (Friday)

Final Exam June 12 (Friday)

*All times are Eastern Standard

II. Laboratory

Lecture Time: Mon Wed

Location: Your Workstation

Lab BlackBoard: You will have access to the lab portion of this course through BlackBoard as well. The site is run by our Lab Director Christine Cardillo (Christine.Cardillo@uvm.edu). The Lab BlackBoard site will open sometime before the beginning of the summer semester. *be notified.* Here is where you will find experimentals, helpful documents, Labflow connection, TA Discussion Boards, logistics, etc. Here is also where you will hand in materials, such as Pre-Lab questions, Lab Reports and Post-Lab questions.

Lab Manuals:

and/or connections to the Labflow Online Platform. Please make sure you thoroughly go through the actual experimental before attacking the labs.

Lab Notebook: We used to require a notebook with carbon-less copies for recording lab data. All data is to be recorded in ink (not pencil). A carbon-less copy lab notebook bookstore. However, any notebook can be used for our Virtual environment.

Prior to Start of Lab: Purchase your lab notebook. You will be using the Labflow Online Platform for the experiential part of the lab. ***If you have not completed these items you will not be able to begin the lab portion of the course.***

Attendance and Lab Reports: Students must hand in their Lab Reports for each experiment. ***If more than three Lab Reports are not handed in you will receive an F for the course.*** Only the Academic Dean of your College may grant an incomplete. An unexcused absence will result in a **ZERO** grade for the laboratory experiment. Official documentation of sickness or a family crisis is required for an excused absence or time extension.

III. Course Grade

Percent Ranges for Grades:

	A-	85	B-
C-			D-

How to Calculate Your Points:

May 28

V. Laboratory Schedule

<u>Date</u>	<u>Experiment</u>	<u>Description</u>
May 18	Check In Experiment 1 Lecture Correlation	Chemistry Glassware and Measurement Module E

