

CHEM 31E (90896): General Chemistry Fall 2018

I. Lecture

Lecturer: Erik Ruggles, Ph.D.

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Office Hours: T Th: 10am-12pm, 2-4pm
W: 8:30-11:30am; 1-3pm
or by appointment

Lecture Time: T Th 4:25 5:40 pm

Location: Billings Lecture Hall I101

Lecture: The lecture each week will be used to cover new material and concepts along with sample problem solving. Live lecture notes I present in class will be posted on Blackboard (BB) after each class.

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 UVM Disc Store (~\$200; text, solutions manual, and mastering), or 2) at the UVM bookstore (~\$160; text, solutions manual, and mastering), or 3) digital access (~\$70; text, solutions manual, and mastering)

II. Laboratory

Lab Manuals: All experiments can be found online on your BB website as individual pdfs. 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-

Safety Eye Wear:

III. Course Grade

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 = **125 points** (12.5 points/assignment)
 - 1c) Final Exam = **250 points**

There are three mid-semester exams (each 125 points) and a final exam (250 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:	105.0 (84%) Class Points = 485.0 exam + 105.0 homework			
	Total = 590.0 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:	87.5 (70%) Class Points = 446.25 exam + 87.5 homework			
	Total = 537.5 points			

2) Laboratory = **250 lab points** (25% of grade)

Safety Quiz	1 point
Prelab (3 pts/per)	27 points
Lab Reports (15 pts/per)	100 points
Quizzes (8 pts/per)	

IV. Lecture Schedule and Chapter Homework

Exam 1 September 17

Exam 3 November 12

Exam 2 October 15

Final December 13 (Billings LH I101); 4:30-7:15 pm)

<u>Dates</u>	<u>Chapters</u>	<u>End-of-Chapter Homework Problems</u>
Aug. 27 - Aug. 31	E and 1	ChE: 19,21,23,25,27,29,33,37,39,41,45,47,49,51,53, 55,59,61,65,71,73,75,79,81,87,89,91,95,99, Ch1: 35,39,43,45,49,53,55,57,59,61,63,65,67,71,75, 77,79,83,85,87,89,91,93,97,103,105,107,109,117,
Sept. 3	LABOR DAY HOLIDAY	
Sept. 4 - Sept. 7	1 and 2	Ch2: 35,37,39,41,43,51,53,55,57,59,61,63,65,67,69, 71,73,79,85,89,91
Sept. 10	LAST DAY TO ADD/DROP COURSE	
Sept. 10 - Sept. 14	2	
Sept. 17	EXAM 1*	Chapters E, 1, and 2,
Sept. 17 - Sept. 21	3	Ch3: 41,43,45,47,49,51,53,55,57,59,61,63,65,67,69, 71,73,75,77,79,81,83,87,89,91,93,95,97,101,103,109, 115,127,135
Sept. 24 - Sept 28		

<u>Dates</u>	<u>Chapters</u>	<u>End-of-Chapter Homework Problems</u>
Oct. 22 -Oct. 26	11 and 7	Ch11: 35,37,39,41,43,45,47,49,51 Ch7: 15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,53,55,57,61,63,65,67,69,71,75,81,85
Oct. 29	LAST DAY TO WITHDRAW FROM COURSE	
Oct. 29 - Nov. 2	7 and 8	Ch8: 21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63,65,67,69,71,73,75,77,79,81,87,91,93,99
Nov. 5 - Nov. 8	8 and 9	Ch9: 31,33,35,37,39,41,43,45,47,49,51,53,57,59,61,63,65,67,69,71,73,75,77,79,81,83,85,87,89,91,93,95,99,101,107,111,113,117,119,123
Nov. 12	EXAM 3*	Chapters 6, 11, 7, 8,
Nov. 12 - Nov. 16	9	
Nov. 19 -Nov. 23	THANKSGIVING HOLIDAY	
Nov. 26 - Nov. 30	10	Ch10: 25,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63,67,69,71,73,77,79,81,83,85,87,89,91,93,95,99,101,105,107,113,123,125,127
Dec. 3 Dec. 7	10, 11 and review	Ch11: 53,57,59,61,63,65,67,69,71,73,77,81,85,87,93
Dec. 13	Final Exam	Cumulative (Billings LH I101; 4:30-7:15 pm)

*Extent of exam material will depend on our progress in lecture.

VI. ACCESS Accommodations and Religious Holidays

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 - access@uvm.edu.

ACCESS Office: <http://www.uvm.edu/~access/>

Policy on disability certification and student support:

<http://www.uvm.edu/~uvmppg/ppg/student/disability.pdf>

Religious Holiday Policy Statement

*Religious Holidays: Students have the right to practice the religion of their choice. If you need to miss class to observe a religious holiday, please submit the dates of your absence to me in writing **by the end of the second full week of classes**. You will be permitted to make up work within a mutually agreed-upon time.*