

be assigned after each class period and you are expected to watch the lecture(s) and attempt the homework prior to the next virtual class time. The Video Lectures for discussions on Mondays, Wednesdays and Fridays will be used to cover new material and concepts along with sample problem solving. The Homework Problem Sets will strengthen your connection between concept and the mathematics that describes the concept. I strongly encourage you to do as many problems as possible, the more you practice the better you will get. Use the Homework Problem Video Examples for extra help. My video lecture notes as well as in class discussions will be posted in pdf format on BB ([link](#)). In class discussions will be recorded and then posted in video format on [Teams](#).

Class will be held virtually from 1:10pm-2:00pm Monday, Wednesday and Friday. Class is virtual if class is scheduled on the delptd.. Ma

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.

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

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

2) Laboratory= (25% of grade)

Safety Quiz	1 point
Prelab (3pts/per)	27 points
Lab Reports (15 pts/per)	100 points
Quizzes (8pts/per)	<u>72 points</u>
	250 points

3) Course Grade Determination

Add up your points from class and lab and then use the chart at the beginning of this section to determine your course grade.

Example 1:

$$\begin{array}{r} 590 \text{ class points} \\ + \underline{200 \text{ lab points}} \\ \hline 790 \text{ total points} / 1000 \text{ points} = 79.0\% \end{array}$$

Example 2

$$\begin{array}{r} 537.5 \text{ class points} \\ + 200 \text{ lab points} \end{array}$$

<u>Dates</u>	<u>Chapters</u>	<u>Homework Problems (Learning Objectives)</u>
Aug 31 - Sept 4	Syllabus 13	(Class Dynamics) Ch13 25,27,29,31,33,35,37,43,45,47,49,51, 59,63,65,67,69,71,73,77,79,81,83,85,87,89,93, 97,99,105,109,115 (Module 13 Solution Concentration, Temperature Effects, Colligative Properties, Melting and Boiling Points, Osmotic Pressure)
Sept 7- 11	13 and 14	Ch14 27,29,31,37,41,45,47,53,55,59,65,71, 75,77,83,89,91,95,103,105,107 (Module 14 Chemical Kinetics, Rate Laws, Integrated Rate Laws, Mechanism, Temperature Effects)
Sept 14- 18	14	
Sept 21 - 25	15	Ch15 21,23,27,29,31,33,35,37,39,41,45,47, 49,53,55,59,63,65,67,69,71,73,75,79,81,83,89 (Module 15 Chemical Equilibrium, K_c , K_p , and Le Châtelier)
Sept 28- Oct 2	15 and 16	Ch16 31,33,35,37,39,41,45,49,51,55,59,61, 65,67,69,71,75,79,81,83,85,87,89,91,95,97,99, 101,103,107,109,111,113,115,117,121,123, 127,129,133,141 (Module 16 Acid-Base Reactions and Equilibria, Conjugate Acid/Conjugate Base Equilibria, Polyprotics)
Oct 5- 9	16	
Oct 12- 16	16	

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

<u>Dates</u>	<u>Chapters</u>	<u>Homework Problems (Learning Objectives)</u>
Oct 19- 23	17	Ch17: 25,27,29,31,33,35,39,41,43,45,49,51, 53,57,59,61,63,65,67,69,71,75,81,83,85,87,93, 95,97,103,105,111,113,115,121,125 (Module 17: Buffers, Titrations, and Solubility Equilibria)
Oct 26-30	17	
Nov 2- 6	17 and 18	Ch18: 31,35,37,39,41,45,47,51,53,55,59,61, 67,71,73,75,85,87,93,101 (Module 18: Entropy, Gibbs Free Energy, Free Energy and Equilibrium, Standard State and Non Standard State)
Nov 9- 13	18 and 19	Ch19: 33,35,37,39,41,43,45,47,49,53,57,59, 61,63,65,69,71,73,77,83,85,89,97,99,103,105, 115,119 (Module 19: Redox, Cell Potential, Redox and Equilibrium, Batteries, Electrolysis and Corrosion)
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Nov 16- 20	19	
Nov 23- 24	19	
Nov 30- Dec 4	19 and 20 Review	Ch20: 31,33,35,37,41,45,51,57,61,71,73,81, 83,89 (Module 20: Radioactivity, Kinetics of Radioactivity, Fusion, Fission, and Binding Energy)

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

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<u>Date</u>	<u>Experiment</u>	<u>Description</u>
Oct 5- 9		
Online Lab A	Experiment 4	L

<u>Date</u>	<u>Experiment</u>	<u>Description</u>
Nov 2- 6		
In Person Lab A	Experiment 8 Assignment Due	Thermodynamics Hot/Cold Pads Exp 7 Lab Report Exp 8 Prelab and Quiz
Online Lab B	Experiment 7 Assignment Due	Determination of Solubility Product Exp 8 Lab Report Exp 7 Prelab and Quiz
Nov 9- 13		
Online Lab A	Experiment 9 Assignment Due	Thermodynamics of Borax Exp 8 Lab Report Exp 9 pre S

<u>Date</u>	<u>Experiment</u>	<u>Description*</u>
Aug 31 - Sept 4		Purchase lab manual and safety glasses On Blackboard, review and complete the Introduction to Lab
Sept 7-11 Due	Exp 2 Lab Report	On Blackboard, review and complete the Lab Safety Presentation and Quiz
Sept 14- 18	Check In	
Online Lab	Experiment 1 Experiment 4 Molar Mass and Freezing Point Assignment Due	Safety Presentation and Safety Quiz
Sept 21 - 25	Check In	
Online Lab	Experiment 2 Assignment Due	Kinetics of Iodination of Acetone Exp 1: Lab Report Exp 2: Pre-lab and Quiz
Sept 28- Oct 2		
Online Lab	Experiment 3 Assignment Due	Determination of K_{eq} Exp 2: Lab Report
t	Exp 3 Pre-lab	Exp 3: Lab and Quiz
Oct 5- 9		
Online Lab	Experiment 4	Le Châtlier's Princi

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General Chemistry 3 Fall
Eiliff Suggs, Ph.D.

Oct 19- 23

Online Lab

**Experiment 6
Assignment Due**

**Acid base Equilibria and Buffers
Exp 5 Lab Report
Exp 6 Prelab and Quiz**

Oct 26- 30 Quiz

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@ummedu

ACCESS Office: <http://www.ummedu/~access/>

**Policy on disability certification and student support:
<http://www.ummedu/~umppg/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