

## Course Syllabus

\*This is a tentative syllabus. With the changes being made because of COVID-19, there may be significant changes throughout the semester.

# Syllabus for Chem 1B: General Chemistry

## Reedley College

Section: 55095/55096

Term: Spring 2021

## Course Information

Lecture: Online (asynchronous)

## Required Books and Materials:

- Chemistry: A Molecular Approach, Nivaldo J. Tro
  - 3<sup>rd</sup> to 5<sup>th</sup> editions are acceptable. Newer editions will match the lectures most closely. Homework has been selected for each edition (posted on Canvas).
- The lab manual will be provided as a free download from Canvas. Experiments and worksheets must be printed out and brought to class.
- Composition Notebook for Lab.
- Lab coat and goggles for face-to-face labs.
- Scientific calculator (I recommend the TI-36X Pro)

## Faculty Information

Instructor: Kirk Kawagoe

Office and phone: Zoom! I may not be in my office this semester.

Cell phone: (559) 393-2121 (**text only**, this is the best method of contacting me). I will usually get back to within the hour (or faster).

email: Use the canvas e-mail system. I will get back to you within 24-hours. Do not use my RC email.

Office hours: M, T 1:00 - 2:30 PM; W, Th 11AM-12:30 PM; F 11AM-1PM

[Help Session Links and Full Schedule](#)

## Statement on Academic Dishonesty:

[Academic Dishonesty](#)

# Accommodations

It is our policy not to discriminate against any student. If you suspect that you have any type of physical disability or learning disability that is relevant to your performance in the course, please stop by the disabled student services office and discuss it with them as they may be able to provide services and support that could help you succeed.

If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

# Attendance

This is an online class. Class attendance will be monitored via assignments turned in.

- Students who have not contacted me or have not turned in the first assignment by 1/16 (Saturday), will likely be dropped.
- Students who do not take the first quiz or do not turn in 70% of assignments as of 2/6 (Saturday) may also be dropped. Exceptions can be made if students have contacted me and worked out a plan to successfully catch up before 3/14.
- I require one zoom check in per week during office hours or other arranged zoom meeting.

# Important dates

- 1/18/21 Martin Luther King Day
- 1/31/21 Last day to drop without a W on your transcript (via WebAdvisor)
- 3/12/21 Last day to drop without a W
- 3/29-4/1/21 Spring Break!
- Final Exam
  - 55095 Thursday, May 10, 2 PM-3:50 PM: Face-to-Face Final exam (Covid conditions permitting)
  - 55096 Wednesday, May 9, 2 PM-3:50 PM: Face-to-Face Final exam (Covid conditions permitting)

# Exams

Five multiple choice exams will be given in this class. In chemistry, topics build on one another; therefore, all exams are comprehensive. Make up exams will generally not be given. Certain constants, conversion factors and equations will be provided on exams. Examples of information given can be found on Canvas. You are allowed to use your text book during the exam, but the exams will be difficult to complete if you have to look up additional information during the exam.

# Course Student Learning Outcomes and Objectives

## Extra Credit

Extra credit assignments will not be given.

## Grading

A summary of your grades, including a projected course grade, is available on Canvas. To receive a passing grade, you must have at **least a 70% lab average and a 65% exam average** regardless of your success in the rest of the course.

The grading scale will be based on a straight percentage:

- A = 90% - 100%
- B = 80% - 89%
- C = 70% - 79%
- D = 60% - 69%
- F = 0% - 59%

The final grade will be calculated using weighted categories:

- 10% Homework
- 25% Lab reports/worksheets. You must receive at a 70% average in lab to pass the course.
- 45% Chapter Quizzes. Your Quiz average must be at least 65% to pass the class with a grade of C or better.
- 20% Final Exam

## Homework

Here's a general outline of how you should work out homework problems involving calculations:

1. **Find what you are looking for and the givens.**
2. **Determine how the values are related. (i.e. conversion factors or equations)**
3. **Write what you are looking for on the left of the equal sign**
  - **If there are conversions, show each conversion factor with its units. Cancel units.**
  - **If its an equation, solve the equation for the variable you are looking for.**
4. **Carry out conversions or plug values into equations making sure that units match.**

### Example:

Calculate the volume, mL, of 35.3 g of mercury at 25°C. ( $d = 13.593 \text{ g/cm}^3$ )

### Looking for mL Hg.

**Given: 35.3 g and d = 13.593 g/cm<sup>3</sup>**

**Plan:**

$$\text{g} \xrightarrow{d=13.593 \text{ g/cm}^3} \text{cm}^3 \xrightarrow{1 \text{ cm}^3 = 1 \text{ mL}} \text{mL}$$

**Work shown:**

$$\text{volume (mL)} = 35.3 \cancel{\text{g}} \times \frac{1 \cancel{\text{cm}^3}}{13.593 \cancel{\text{g}}} \times \frac{1 \text{ mL}}{1 \cancel{\text{cm}^3}} = 2.5969 \text{ mL} = 2.60 \text{ mL}$$

Homework is due following the completion of the chapter and graded according to the following scale:

- 60% - Showing work for questions requiring work.
- 20% - Providing accurate answers.
- 20% - Organization and significant figures.

## Lab

Lab work will follow as closely as possible the material discussed in the lectures. There is no published lab manual for this course. All the lab assignments and experiments are available on Canvas.

For Face-to-Face labs there are **two different prelab assignments**. Both need to be completed **before coming to class** to do an experiment.

- **If there is a prelab video, you need to watch it and complete a quiz before coming to class.**
- **Prelab Worksheets** – These are found *in* the lab instructions you download from Canvas. Most of the questions can be answered by reading the experiment or the introduction to the experiment.
- **Notebook** – You need to write out the following in your notebook **before you come to class. Use a pen!**
  - Purpose
  - Materials
  - Hazards
  - Procedure (For Chem 1A, you are allowed to bring a copy of the procedure at the beginning of the semester, but you must work from the procedure in your notebook. If important information is missing, you can refer to and supplement your prelab notes).
  - You should also leave space in your notebook for recording data. We will discuss this more in class.

If the notebook work is not done before class, you will not be allowed to do your experiment for the day. You will receive a zero for that day.

For online/video experiments:

- Download the experiment file
- Complete the prelab assignment as if it were face-to-face

- View the video
  - Record the data into your notebook
- Complete and postlab calculations and assignments.
- Submit the file back to the assignment link by the due date.

## Late Work

Points are deducted for each day the assignment is late up to 50% (5% per day). Assignments can be turned in at any time during the semester but will have a grade of zero until they are graded. Late assignments run the risk of not being graded if too many are turned in at the end of the semester.



## Success in Chemistry

- Do not underestimate the time required for this class.
- Do not fall behind. Chemistry is cumulative and builds upon earlier concepts.
- Try and read ahead of the class schedule. Work through the examples in the text. Take notes while watching lecture videos.
- Check in EVERY DAY.
- Study for understanding. Critical thinking is a requirement for success in Chem 3A.
- Always show your work, including all units and considering significant figures.
- Complete and turn in all assignments. Work extra problems.
- Consider forming a study group.
- Ask for help. Text or email me with questions any time (literally). I will reply at my earliest convenience.

### Tentative schedule

	Lecture  Check Canvas for specific exam dates and times	Important Assignments (For due dates, check canvas calendar)  (homework is listed separately)
Week 1 1/10/21	Syllabus  Lecture: §15.1-4 ( <a href="#">Chapter 15 Part 1</a> )  • <a href="#">Week 1</a>	<ul style="list-style-type: none"> <li>• OL Laboratory Safety Lecture <a href="#">Lab Safety</a></li> <li>• OL Chem 1B Math Review Worksheet <a href="#">Math Review Worksheet</a></li> <li>• OL Safety Quiz</li> <li>• <a href="#">1A Materials to Memorize</a></li> <li>• <a href="#">Practice 1A Memorization Quiz (Does not count toward grade)</a></li> <li>• <a href="#">Introductions</a></li> <li>• <a href="#">Week 1 Discussion</a></li> </ul>
		• OL Exp 0a – Laboratory Techniques Review ( <a href="#">Exp 0a -</a>










Week 2 1/17/21	Lecture: §15.5-15.7 ( <a href="#">Chapter 15 Part 2</a> )  <ul style="list-style-type: none"> <li>• <a href="#">Week 2</a></li> </ul>	<a href="#">Laboratory Notebook</a> <ul style="list-style-type: none"> <li>• OL Memorization Quiz (<a href="#">1A Memorization Quiz</a>)</li> <li>• <a href="#">Practice Uploading Documents Quiz</a></li> <li>• <a href="#">Lab Days Survey (Section 55095)</a></li> <li>• <a href="#">Lab Days Survey (Section 55096)</a></li> <li>• <a href="#">Week 2 Discussion</a></li> </ul>
Week 3 1/24/20	Lecture: §16.1-16.3 ( <a href="#">Chapter 16 Chemical Equilibrium Part 1</a> )  <ul style="list-style-type: none"> <li>• <a href="#">Week 3</a></li> </ul>	<ul style="list-style-type: none"> <li>• OL Exp 15A Iodine Kinetics (<a href="#">Exp 15a - Iodine Kinetics</a>)</li> <li>• OL Worksheet: Chapter 15 Review (<a href="#">Worksheet 15 Chemical Kinetics Review</a>)</li> </ul>
Week 4 1/31/21	Lecture: §16.6-9 ( <a href="#">Chapter 16 Chemical Equilibrium Part 2</a> )  <ul style="list-style-type: none"> <li>• <a href="#">Week 4</a></li> <li>• <a href="#">Chapter 15 Quiz</a></li> </ul>	<ul style="list-style-type: none"> <li>• OL <a href="#">Ex 16a - Chemical Equilibria</a></li> </ul>
Week 5 2/7/21	Lecture: §17.1-7 ( <a href="#">Chapter 17 Part 1 - Acids and Bases</a> )  <ul style="list-style-type: none"> <li>• <a href="#">Week 5</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>FF</b> <a href="#">Exp 1b – Introduction to Measurements</a></li> <li>• OL <a href="#">Exp 16b - Online</a></li> <li>• OL <a href="#">Worksheet 16 - Chemical Equilibrium</a></li> </ul>
Week 6 2/14/21	Lecture: 17.8-11 ( <a href="#">Chapter 17 Part 2 - Acids and Bases</a> )  <ul style="list-style-type: none"> <li>• <a href="#">Week 6</a></li> <li>• <a href="#">Chapter 16 Quiz</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>FF</b> <a href="#">Exp 18b - Molar Solubility of Calcium Iodate</a></li> </ul>
Week 7 2/21/21	Lecture: §18.1-18.4 ( <a href="#">Chapter 18 Part 1 - Aqueous Equilibria</a> )  <ul style="list-style-type: none"> <li>• <a href="#">Week 7</a></li> </ul>	<ul style="list-style-type: none"> <li>• Lab to be announced</li> </ul>
Week 8 2/28/21	Lecture: §18.5-18.8 ( <a href="#">Chapter 18 Part 2 - Solubility and Complex Ions</a> )  <ul style="list-style-type: none"> <li>• Chapter 17 Quiz</li> <li>• <a href="#">Week 8</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>FF</b> <a href="#">Exp 18a (Gen Chem)- Unknown Weak Acid</a></li> <li>• OL <a href="#">Worksheet 17 - Acids and Bases</a></li> </ul>
		<ul style="list-style-type: none"> <li>• <b>FF</b> <a href="#">Continue Exp 18a</a></li> </ul>

Week 9 3/7/21	Lecture: §19.1-19.10 ( <a href="#">Chapter 19 Thermodynamics</a> )  • <a href="#">Week 9</a>	• Last day to Drop (Friday)
Week 10 3/14/21	Chapter 18 Quiz  • <a href="#">Week 10</a>	• OL <a href="#">Worksheet: Chapter 18 Review</a> 
Week 11 3/21/21	Lecture: §20.1-20.9 ( <a href="#">Chapter 20 Electrochemistry</a> )  • <a href="#">Week 11</a>	• OL <a href="#">Exp 18a (Gen Chem)- Solubility &amp; Thermodynamics</a>
3/29-4/3	Spring Break!!	
Week 12 4/4/21	• Chapter 19 Quiz • <a href="#">Week 12</a>	• FF Lab: <a href="#">21 Electroplate LQ.pdf</a> 
Week 13 4/11/21	Lecture: §21.1-21.8 ( <a href="#">Chapter 21 Nuclear Chemistry</a> )	• FF Exp 17b (Gen Chem)- Qualitative Analysis (practice day) • OL Worksheet: Chapter 19 Review
Week 14 4/18/21	• Chapter 20 Quiz • <a href="#">Week 14</a>	• FF Exp 17b (Gen Chem)- Qualitative Analysis (Lab Practical) • OL Worksheet: Chapter 20 Review
Week 15 4/25/21	Lecture: §24.1-24.2, 26.3-5 ( <a href="#">Chapter 26 Transition Metals</a> )  <a href="#">Week 15</a>	
Week 16 5/2/21	• Chapter 21 Quiz • <a href="#">Week 16</a>	• Lab Cleaning Day. Exp 17b makeup day. (Tuesday Only)
Week 17	Review for Final ( <b>1A &amp; 1B</b> )	• <a href="#">Final Exam Review Materials</a>

5/9/21	<b>Chapter 24/26 Quiz/Group Assignment</b>  <a href="#">Week 17</a>	
Week 18 5/16/21	Finals Week  <a href="#">Week 18</a>	<ul style="list-style-type: none"> <li>• Face-to-Face: Comprehensive 1A - 1B final. Do not meet for lab.</li> </ul>

\*Exp 1b will be done when we know we can have face-to-face labs.

## Course Summary:

Date	Details	
Wed Sep 23, 2020	 <a href="#">Exp 20b Electrochemistry -- Online Version</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482044">https://scccd.instructure.com/courses/61965/assignments/1482044</a> )	due by 11:59pm
Wed Jan 13, 2021	 <a href="#">Introductions</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482005">https://scccd.instructure.com/courses/61965/assignments/1482005</a> )	due by 11:59pm
Fri Jan 15, 2021	 <a href="#">Lab Safety Contract</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482046">https://scccd.instructure.com/courses/61965/assignments/1482046</a> )	due by 11:59pm
	 <a href="#">Lab Safety Quiz</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482003">https://scccd.instructure.com/courses/61965/assignments/1482003</a> )	due by 11:59pm
Sat Jan 16, 2021	 <a href="#">Week 1 Discussion</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1553792">https://scccd.instructure.com/courses/61965/assignments/1553792</a> )	due by 11:59pm
Wed Jan 20, 2021	 <a href="#">1A Memorization Quiz</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482006">https://scccd.instructure.com/courses/61965/assignments/1482006</a> )	due by 11:59pm
	 <a href="#">Lab Days Survey (Section 55095)</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482002">https://scccd.instructure.com/courses/61965/assignments/1482002</a> )	due by 11:59pm
	 <a href="#">Practice Uploading Documents Quiz</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482048">https://scccd.instructure.com/courses/61965/assignments/1482048</a> )	due by 11:59pm
	 <a href="#">Lab Days Survey (Section 55096)</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1552284">https://scccd.instructure.com/courses/61965/assignments/1552284</a> )	due by 11:59pm



Date	Details	
Thu Jan 21, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1553794">Week 2 Discussion</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1553794">https://scccd.instructure.com/courses/61965/assignments/1553794</a> )	due by 11:59pm
	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482007">Chapter 15 Homework Part 1</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482007">https://scccd.instructure.com/courses/61965/assignments/1482007</a> )	due by 11:59pm
Fri Jan 22, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482047">Math Review Worksheet</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482047">https://scccd.instructure.com/courses/61965/assignments/1482047</a> )	due by 11:59pm
	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482037">Exp 0a - Laboratory Notebook</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482037">https://scccd.instructure.com/courses/61965/assignments/1482037</a> )	due by 11:59pm
	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482008">Chapter 15 Homework Part 2</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482008">https://scccd.instructure.com/courses/61965/assignments/1482008</a> )	due by 11:59pm
Fri Jan 29, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482052">Worksheet 15 Chemical Kinetics Review</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482052">https://scccd.instructure.com/courses/61965/assignments/1482052</a> )	due by 11:59pm
Tue Feb 2, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482038">Exp 15a - Iodine Kinetics</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482038">https://scccd.instructure.com/courses/61965/assignments/1482038</a> )	due by 11:59pm
	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482009">Chapter 15 Quiz</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482009">https://scccd.instructure.com/courses/61965/assignments/1482009</a> )	due by 11:59pm
Fri Feb 5, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482011">Chapter 16 Homework Part 1</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482011">https://scccd.instructure.com/courses/61965/assignments/1482011</a> )	due by 11:59pm
Sat Feb 6, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482010">Chapter 15 Quiz Written</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482010">https://scccd.instructure.com/courses/61965/assignments/1482010</a> )	due by 1am
Tue Feb 9, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482036">Ex 16a - Chemical Equilibria</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482036">https://scccd.instructure.com/courses/61965/assignments/1482036</a> )	due by 11:59pm
Wed Feb 10, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482004">Grubbs' test for outliers on class data:</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482004">https://scccd.instructure.com/courses/61965/assignments/1482004</a> )	due by 11:59pm
Fri Feb 12, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482012">Chapter 16 Homework Part 2</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482012">https://scccd.instructure.com/courses/61965/assignments/1482012</a> )	due by 11:59pm

Date	Details	
	 <a href="#">Worksheet 16 - Chemical Equilibrium</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482053">https://scccd.instructure.com/courses/61965/assignments/1482053</a> )	due by 11:59pm
Sun Feb 14, 2021	 <a href="#">Data for Experiment 1B</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1523435">https://scccd.instructure.com/courses/61965/assignments/1523435</a> )	due by 11:59pm
Tue Feb 16, 2021	 <a href="#">Exp 16b - Online</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482039">https://scccd.instructure.com/courses/61965/assignments/1482039</a> )	due by 11:59pm
	 <a href="#">Exp 1b (face-to-face)</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482043">https://scccd.instructure.com/courses/61965/assignments/1482043</a> )	due by 11:59pm
Fri Feb 19, 2021	 <a href="#">Chapter 16 Quiz</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482013">https://scccd.instructure.com/courses/61965/assignments/1482013</a> )	due by 11:59pm
	 <a href="#">Chapter 17 Homework Part 1</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482015">https://scccd.instructure.com/courses/61965/assignments/1482015</a> )	due by 11:59pm
Sat Feb 20, 2021	 <a href="#">Chapter 16 Scratch Paper</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482014">https://scccd.instructure.com/courses/61965/assignments/1482014</a> )	due by 1am
Tue Feb 23, 2021	 <a href="#">Exp 18b - Molar Solubility of Calcium Iodate</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482040">https://scccd.instructure.com/courses/61965/assignments/1482040</a> )	due by 11:59pm
Fri Feb 26, 2021	 <a href="#">Chapter 17 Homework Part 2</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482016">https://scccd.instructure.com/courses/61965/assignments/1482016</a> )	due by 11:59pm
	 <a href="#">Worksheet 17 - Acids and Bases</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482054">https://scccd.instructure.com/courses/61965/assignments/1482054</a> )	due by 11:59pm
Fri Mar 5, 2021	 <a href="#">Chapter 17 Quiz</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482017">https://scccd.instructure.com/courses/61965/assignments/1482017</a> )	due by 11:59pm
	 <a href="#">Chapter 18 Homework Part 1</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482019">https://scccd.instructure.com/courses/61965/assignments/1482019</a> )	due by 11:59pm
Sat Mar 6, 2021	 <a href="#">Chapter 17 Scratch Paper</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482018">https://scccd.instructure.com/courses/61965/assignments/1482018</a> )	due by 1am

Date	Details	
Fri Mar 12, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482020">Chapter 18 Homework Part 2</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482020">https://scccd.instructure.com/courses/61965/assignments/1482020</a> )	due by 11:59pm
	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482049">Wks 18 - Aqueous Ionic Equilibria</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482049">https://scccd.instructure.com/courses/61965/assignments/1482049</a> )	due by 11:59pm
Tue Mar 16, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482041">Exp 18a Unknown Weak Acid (face-to-face)</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482041">https://scccd.instructure.com/courses/61965/assignments/1482041</a> )	due by 11:59pm
Fri Mar 19, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482021">Chapter 18 Quiz</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482021">https://scccd.instructure.com/courses/61965/assignments/1482021</a> )	due by 11:59pm
Sat Mar 20, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482022">Chapter 18 Scratch Paper</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482022">https://scccd.instructure.com/courses/61965/assignments/1482022</a> )	due by 1am
	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482023">Chapter 19 Homework</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482023">https://scccd.instructure.com/courses/61965/assignments/1482023</a> )	due by 11:59pm
Fri Mar 26, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482050">Wks 19 - Thermodynamics</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482050">https://scccd.instructure.com/courses/61965/assignments/1482050</a> )	due by 11:59pm
Tue Apr 6, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482042">Exp 19a Solubility &amp; Thermodynamics -- Online Version</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482042">https://scccd.instructure.com/courses/61965/assignments/1482042</a> )	due by 11:59pm
Fri Apr 9, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482024">Chapter 19 Quiz</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482024">https://scccd.instructure.com/courses/61965/assignments/1482024</a> )	due by 11:59pm
Sat Apr 10, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482025">Chapter 19 Scratch Paper</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482025">https://scccd.instructure.com/courses/61965/assignments/1482025</a> )	due by 1am
	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482051">Wks 20 - Electrochemistry</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482051">https://scccd.instructure.com/courses/61965/assignments/1482051</a> )	due by 11:59pm
Fri Apr 16, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482026">Chapter 20 Homework</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482026">https://scccd.instructure.com/courses/61965/assignments/1482026</a> )	due by 11:59pm
Fri Apr 23, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482027">Chapter 20 Quiz</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482027">https://scccd.instructure.com/courses/61965/assignments/1482027</a> )	due by 11:59pm

Date	Details	
Sat Apr 24, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482028">Chapter 20 Scratch Paper</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482028">https://scccd.instructure.com/courses/61965/assignments/1482028</a> )	due by 1am
Tue Apr 27, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482045">Experiment: Electroplating</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482045">https://scccd.instructure.com/courses/61965/assignments/1482045</a> )	due by 11:59pm
Fri May 7, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482029">Chapter 21 Homework</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482029">https://scccd.instructure.com/courses/61965/assignments/1482029</a> )	due by 11:59pm
	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482030">Chapter 21 Quiz</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482030">https://scccd.instructure.com/courses/61965/assignments/1482030</a> )	due by 11:59pm
Sat May 8, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482031">Chapter 21 Scratch Paper</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482031">https://scccd.instructure.com/courses/61965/assignments/1482031</a> )	due by 1am
Fri May 14, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482032">Chapter 26 Homework</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482032">https://scccd.instructure.com/courses/61965/assignments/1482032</a> )	due by 11:59pm
Thu May 20, 2021	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482035">Curved Final Score.</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482035">https://scccd.instructure.com/courses/61965/assignments/1482035</a> )	due by 3pm
	 <a href="https://scccd.instructure.com/courses/61965/assignments/1482033">Chapter 26 Quiz</a> ( <a href="https://scccd.instructure.com/courses/61965/assignments/1482033">https://scccd.instructure.com/courses/61965/assignments/1482033</a> )	due by 11:59pm