

Elementary Chemistry

CHEM - 1110 001

Course Description

Introductory course in general inorganic and organic chemistry of hydrocarbons of functional groups. For health science students and other non-chemistry majors. It is recommended that students take CHEM 1115 in the same semester as this course.

Pre-Requisite(s): MATH 1010 w/C grade or higher or appropriate placement into MATH 1050

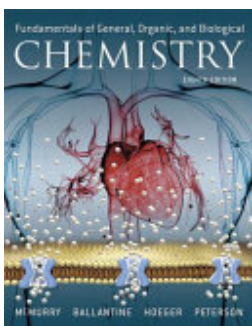
Semester: All

Course Prerequisites

Students must have passed Math 1010 with a C or better or appropriate placement score for placement into Math 1050.

Chem 1115 is a recommended, but not required, co-requisite.

Required Text or Materials



Title: Fundamentals of General, Organic, and Biological Chemistry

Subtitle: You Do Not Have To Purchase This. An Electronic Copy Is Included With Your Course Fee.

Authors: John McMurry, David S. Ballantine, Carl A. Hoeger, Virginia E. Peterson

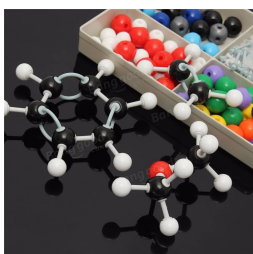
Publisher: Prentice Hall

Publication Date: 2017-01-01

Edition: 8th

**Title: Calculator**

Subtitle: Can be Graphing or Scientific. You should be able to get one for ~\$20 on Amazon or Walmart. We recommend you get your calculator early so you can practice doing the homework with the same calculator you plan to use for the exams so you will be familiar with how to use the functions available. If you have a scientific or graphing calculator you are already familiar with, use it! Familiarity will save you some headaches later.

**Title: Molecular Modeling Kit**

Subtitle: Optional. You may find it helpful to purchase a small molecular modeling kit, they are allowed on the exams. All other course materials should be available through Canvas!

For more information on textbook accessibility, contact Accessibility & Disability Services at ads@slcc.edu.

Engagement Plan

Example language:

- I will respond to email within 2 days.
 - I will offer feedback on major assignments within 3 days.
- The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.
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- Additionally, I will be participating in the discussion forums with you to share my perspective within the discipline and to offer some nuances of interpretation that may not be present in your textbook.

Brief Description of Assignments/Exams

You will be graded on the following items:

Homework (20%) – The actual number of points available is greater than the graded points. These are completed in Mastering Chemistry. Using online software to answer complex questions can be an exercise in frustration, so only the first 170 points earned will be counted. The rest of the points act as a buffer for the frustration of mis-keyed answers or unclear instructions. By the end of the semester, most of you will have made the 170 point cap and will have entire assignments for which you will not have to worry about points on.

. The due dates are populated in your Canvas Calendar and are designed to keep pace with the class throughout the semester.

Chapter quizzes (15%) - Upon completing the class lectures for a specific chapter, a 5-7 question quiz will be posted on the Canvas Site. The Quiz will be multiple choice questions worth 2-points a piece. The quizzes are open-book, open notes, and you are given three attempts at each quiz.

Class Participation/Discussion (4%):

Periodically, a discussion board topic in the Discussion Forums will be posted. You will be graded on your participation in these discussion topics. The posts may be a special challenge problem based on the class material, or a web-based mini-research topic. You will be graded on your participation in these activities.

Attendance (6%) I will be taking attendance each class and awarding points for attendance. Full Percentage points are awarded to those who attend >75% of classes

Exams (55%) - There are six total exams worth 100 points. Five scores will be tabulated in your final grade. Five exams will be administered by the Online Testing Center. Each is a multiple choice, Canvas-based exam similar to your chapter quizzes.

Each exam will be available to take by appointment (details for this will be announced).

Note that Exam 5 which is administered during finals week, is required and can not be used for your dropped exam. An additional open book, open note Comprehensive exam will also be available to take during the last week of classes. This exam is a Canvas based exam that will be in a multiple correct answer, multiple drop down, and matching format that you may take in any setting you wish. This can be used to replace your lowest score for exams 1-4.

Grading Scale

≥ 93.00% A
≥ 90 and < 93 A-
≥ 87 and < 90 B+
≥ 83 and < 87 B
≥ 80 and < 83 B-
≥ 77 and < 80 C+
≥ 73 and < 77 C
≥ 70 and < 73 C-
≥ 67 and < 70 D+
≥ 63 and < 67 D
≥ 60 and < 63 D-
< 60 E

The grade cutoffs will be no higher than these values. However, if the class average falls below 70%, the cutoffs may be lowered to raise the average.

Keys for Success (how to succeed in the course)

This class will hold in person lectures on Tuesdays and Thursdays from 10:00 AM-11:50 AM

During class time, we will be going over the Presentations found in the Chapter Modules. Classes will consist of both lecture and discussion/problem solving. Lectures will be defining and emphasizing topics from the text. It is strongly suggested that you read the

chapter before class in order to familiarize yourself with the concepts.

Discussion/problem solving portion of class will be based upon applying these topics to specific problems from the text or other outside sources. By participating in this section, you will greatly improve your performance on the exams!

What is expected of you - If you don't understand a concept or how to solve a specific problem, by all means tell me. We will address it. You will need to dedicate at least 12 hours a week to this course to be successful. If you struggle with chemistry, then you may need to plan on more time!

What is expected of you

eed access to a reliable computer with web browser. Alternatives to your personal computer are the SLCC Markosian Library or the Science Resource Center located on the second floor of the Science and Industry (SI) building

On the Redwood Campus. If you have technical issues with your web browser or computer, you should expect to solve them using standard troubleshooting methods such as quitting and restarting your browser and/or computer. If that's not successful, you may need to find and utilize other troubleshooting resources such as that offered Salt Lake Community College (MyPage Help: 801-957-5555 or the Help.Desk@slcc.edu).

- If you have technical problems with Mastering Chemistry, you will need to submit a support request directly to Pearson Technical Support.
- Please note that your instructor is not a troubleshooting resource. You are responsible for resolving your own technical issues in a timely manner so that you can meet the expectations of this class.

Course Resources

Learning chemistry can be hard. If you run in to trouble and find you need extra help, you are expected to take advantage of support systems available as soon as possible! Some good ones include the following:

The **discussion forums** are meant to be a place where any student may ask questions and get relatively quick feedback, because other students can respond and help give useful answers in addition to me. By including the whole class, everybody gets help with common questions that only one student may be brave or thoughtful enough to ask, feedback is quicker than if relying on email to the teacher alone, and students who can provide answers learn the material better as they articulate the material they think they know. I am on the forums regularly, so you can be assured that I will correct misconceptions - please don't be afraid to use your fellow students as a resource here!

Me! As your instructor, I am available for **scheduled student hours** in my Zoom room. To schedule your appointment, go to 'calendar' then 'find appointment group' to schedule a time. I can answer to content questions, give individual feedback on exams, and generally answer any questions and concerns you may have. If those hours don't work for you please email me with a list of a few days/times that will work for you and we can to schedule something together. I will answer emails within 2 business days.

Mastering Chemistry maintains a set of guided tutoring modules called dynamic study modules. They are not assigned, but you can access them when you access your Mastering Chemistry account. These are not arranged by chapter but rather organized by topic. These are a useful tool for students struggling with a particular content topic, and they are often recommended as a last resort for students who have not been able to master the material with the tools already provided.

The **STEM learning center** on three campuses hosts workshops, study space, and drop-in tutoring for a wide variety of subjects. They also have textbooks and molecular model kits, among other learning aids, available for students to use. Find out more at <https://www.slcc.edu/stem/>.

SLCC maintains an account to provide free **online tutoring** through Tutor.com. There is a link in your course in the left hand sidebar to access this material 24 hours a day.

[How to Navigate to Canvas](#)

[Learning Support and Tutoring Services](#)

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the [Institutional Syllabus](#) page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	Attendance	Assignment	51
	Introduce Yourself	Discussion	0
	TextBook	Discussion	0
8/29/25	Ch. 0: Introduction to Matter	Assignment	7.5
8/29/25	Introduction to MasteringChemistry	Assignment	7.5
8/29/25	Chapter 1a Quiz	Quiz	10
9/3/25	Ch. 2: Atoms and Elements	Assignment	7.5
9/5/25	Ch. 2: Electronic Structures and the Periodic Table	Assignment	7.5
9/5/25	Chapter 2 Quiz	Quiz	12
9/5/25	Introductions...	Discussion	5
9/10/25	Ch. 11: Introduction to Nuclear Chemistry	Assignment	7.5

Due Date	Assignment Name	Assignment Type	Points
9/12/25	Ch. 11: More Nuclear Reactions	Assignment	7.5
9/12/25	Chapter 11 Quiz	Quiz	12
9/17/25	Ch. 3: Ions and Ionic Compounds	Assignment	7.5
9/19/25	Ch. 3: Ionic Compounds: Properties and Nomenclature	Assignment	7.5
9/19/25	Chapter 3 Quiz	Quiz	12
9/19/25	Exam 1	Quiz	100
9/19/25	Isotopes.	Discussion	5
9/19/25	Nuclear Medicine article and questions.	Discussion	5
9/26/25	Ch. 4: Covalent Compounds: Properties, Structures, and Shapes	Assignment	7.5
10/1/25	Ch. 4: Covalent Compounds: Polarity, Forces, and Nomenclature	Assignment	7.5
10/3/25	Chapter 4 Quiz	Quiz	14
10/10/25	Ch. 5: Balancing and Classifying Chemical Reactions	Assignment	7.5
10/10/25	Exam 2	Quiz	100

Due Date	Assignment Name	Assignment Type	Points
10/10/25	Ionic Compounds.	Discussion	5
10/15/25	Ch. 5: MORE Chemical Reactions	Assignment	7.5
10/17/25	Ch. 1: Units and the Metric System	Assignment	7.5
10/17/25	Chapter 5 Quiz	Quiz	12
10/22/25	Ch. 1: Formulas and Conversions	Assignment	7.5
10/24/25	Ch. 6: The Mole	Assignment	7.5
10/24/25	Chapter 1b quiz	Quiz	14
10/29/25	Ch. 6: Stoichiometry	Assignment	7.5
10/31/25	Chapter 6 Quiz	Quiz	12
11/7/25	Ch. 7: Energy	Assignment	7.5
11/7/25	6 Chemical Reactions that changed the world...	Discussion	5
11/7/25	Chapter 7 Quiz	Quiz	12
11/7/25	Dimensional Analysis for IV Infusions.	Discussion	5
11/7/25	Exam 3	Quiz	100
11/12/25	Ch. 7: Collision Theory and Equilibrium	Assignment	7.5
11/14/25	Ch. 8 Introduction to Gases	Assignment	7.5
11/14/25	Chapter 8 Quiz	Quiz	12

Due Date	Assignment Name	Assignment Type	Points
11/19/25	Ch. 8: Ideal Gases, Partial Pressures, and Phase Changes	Assignment	7.5
11/21/25	Ch. 9: Solubility and Concentration Units	Assignment	7.5
11/21/25	Deflategate	Discussion	5
11/21/25	Exam 4: Chapters 7-8	Quiz	100
11/26/25	Ch. 9: Dilutions and Colligative Properties	Assignment	7.5
12/5/25	Ch. 10: Introduction to Acids and Bases	Assignment	7.5
12/5/25	Basic Metabolic Panel.	Discussion	5
12/5/25	Chapter 9 Quiz	Quiz	14
12/10/25	Ch. 10: pH, Titrations and Buffers	Assignment	7.5
12/12/25	Chapter 10 Quiz	Quiz	14
12/12/25	Open Book Comprehensive Exam	Quiz	100
12/18/25	Final Exam (Exam 5 Chapters 9 and 10) Exam 5 (Chapters 9 and 10) Final Exam (Chapters 9 and 10).	Quiz	100

Institutional Policies

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the [Institutional Syllabus](#) page.

Advising and Counseling Support Services

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, visit the [Institutional Syllabus](#) page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

Student Academic Calendar

As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)

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