



CHEM GENERAL CHEMISTRY I (BPS) 1110

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Course Description

This is an introductory chemistry course for non-science majors. It is designed for students whose major does not require the more mathematically intensive CHEM 1210 or CHEM 1220 courses and is the first of a two-semester sequence. Progression is made from the basic math, measurement, and inorganic chemistry through an introduction to organic chemistry.

Prerequisite/Restriction: MATH 1050 (prerequisite/corequisite) OR a C or better in MATH 1010 OR an Accuplacer score of 60 or better OR MATH ACT of 24 OR MATH SAT of 570 OR satisfactory completion (C or better) of the MATH 0995 as a prerequisite. MATH 1045 can be a substitute with instructor approval.

CHEM 1110 is a 4 credit university level breadth physical science (BPS) course.

Semester(s) Traditionally Offered: Fall, Spring

Fees

There are no direct fees.

Course Objectives

By the end of this course, you will be able to:

1. Identify the nature and type of inorganic, ionic, organic, and biochemical structures.
2. Describe the major inter-molecular forces associated with different structures and describe the effects on material properties.
3. Identify and describe major biochemical metabolic pathways and relate them to food type and diet.

Instructor

Mark D. Noirot, Ph.D.

mark.noirot@usu.edu

office 435-678-8193

Location: USU Blanding, BLT 111

Class Scheduled meetings:

Canvas Information

Canvas is the where course content, grades, and communication will reside for this course.

- <http://canvas.usu.edu> (<http://canvas.usu.edu>)
 - Your **username** is your **A#**, and your **password** is your global password (the same one you use for Banner or Aggiemail).
- For [Canvas](http://canvas.usu.edu) (<http://canvas.usu.edu>), [Passwords](https://id.usu.edu/Password/Help/#password) (<https://id.usu.edu/Password/Help/#password>), or any other computer-related technical support contact the [IT Service Desk](http://it.usu.edu) (<http://it.usu.edu>).
 - 435 797-4357 (797-HELP)
 - 877 878-8325
 - <http://it.usu.edu> (<http://it.usu.edu>)
 - servicedesk@usu.edu (<mailto:servicedesk@usu.edu>)

Course Resources

Required Textbook:

General, Organic, and Biological Chemistry, An Integrated Approach, 1ed or 2ed or 3ed

Laura Frost, Todd Deal, Karen C. Timberlake



Course Requirements

Each student will:

1. Access the Course through CANVAS
2. Take exams and complete homework assignments through the CANVAS LMS or portal.
 1. Exams can be taken using Proctorio software to monitor ... or
 2. Exams can be taken at USU approved Proctored Testing Centers.

Evaluation Methods and Criteria

Course grade is determined by scores on homework (Mastering Chemistry) ~35%, and 4 typically independent exams ~65%. No exam scores are "dropped".

Students may use the proctoring software to take online exams at non-conventional locations. Students are responsible for ensuring the quality of internet service is adequate. The environment must be private, quiet, and well lit. Students may not wear hats, sunglasses, or any item that interferes with the recording of their faces and eyes during the exam. Student faces must be well lit and on screen at all times. Students must not be backlit and obscured by the lighting behind them. This can all be tested and verified by the student before taking every exam. Behavior during the exams is recorded and evaluated.

Evaluation by the Instructor is completely at his discretion! Evaluation can occur at any time during or after an exam.

Course Content

Also - see the content in the Modules Section

CH1 Matter and Measurement

CH2 Atoms and Radioactivity

CH3 Compounds - How Elements Combine

CH4 Introduction to Organic Compounds

CH5 Chemical Reactions

CH6 Carbohydrates

CH7 States of Matter and Their Attractive Forces

CH8 Solution Chemistry

Grade Scheme

The following grading standards will be used in this class:

Grade	Range
A	100 % to 93.0%
A-	< 93.0 % to 90.0%
B+	< 90.0 % to 87.0%
B	< 87.0 % to 83.0%
B-	< 83.0 % to 80.0%
C+	< 80.0 % to 77.0%
C	< 77.0 % to 73.0%
C-	< 73.0 % to 70.0%
D+	< 70.0 % to 67.0%
D	< 67.0 % to 60.0%
F	< 59.0 % to 0.0%

Course Schedule/Outline

Outline dates and assignments

Class Meetings

Monday Recitation Live via Zoom: 1:30 pm -- All other resources available through CANVAS Portal.

Attendance and Excused Absences Policy

Attendance is highly encouraged and has proven to be essential to success for most students in this class. Attendance is not monitored, rewarded with points, or penalized. Exams must be taken during specified time periods. The exam timing may be shifted as needed during the semester.

Scheduled dates and times are subject to change. Students must contact the instructor in advance of an exam to request exception. Typically, exams are not taken *early*.

Nonattendance Policy

Students May Be Dropped For Nonattendance

If a student does not attend a class during the first week of the term or by the second class meeting, whichever comes first, the instructor may submit a request to have the student dropped from the course. (***This does not remove responsibility from the student to drop courses which he or she does not plan to attend.***) This option is typically used for classes that are full and the instructor is trying to make a seat available for another student, but may be considered for other courses. Requests must be made during the first 20 percent of the course and will be considered on an individual student basis. Students who are dropped from courses will be notified by the Registrar's Office through their preferred e-mail account (see [2018-2019 General Catalog](#) (<http://catalog.usu.edu/content.php?catoid=12&navoid=3955>)).

Assumption of Risk

All classes, programs, and extracurricular activities within the University involve some risk, and certain ones involve travel. The University provides opportunities to participate in these programs on a voluntary basis. Therefore, students should not participate in them if they do not care to assume the risks. Students can ask the respective program leaders/sponsors about the possible risks a program may generate, and if students are not willing to assume the risks, they should not select that program. By voluntarily participating in classes, programs, and extracurricular activities, a student does so at his or her own risk. General information about University Risk Management policies, insurance coverage, vehicle use policies, and risk management forms can be found at: <http://www.usu.edu/riskmgmt/> (<http://www.usu.edu/riskmgmt/>)

Library Services

All USU students attending classes in Logan, at our Regional Campuses, or online can access all databases, e-journals, and e-books regardless of location. Additionally, the library will mail printed books to students, at no charge to them. Students can also borrow books from any Utah academic library. Take advantage of all library services and learn more at libguides.usu.edu/rc. (<http://libguides.usu.edu/rc>)

Classroom Civility

Utah State University supports the principle of freedom of expression for both faculty and students. The University respects the rights of faculty to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede the learning process. Disruptive classroom behavior will not be tolerated. An individual engaging in such behavior may be subject to disciplinary action. Read [Student Code Article V Section V-3](#) (<https://studentconduct.usu.edu/studentcode/article5>), for more information.

University Policies & Procedures

COVID-19 Classroom Accommodations

If you face COVID-19 related challenges and feel you need accommodations, you must request those accommodations by filling out the [COVID-19 Questionnaire](#) (<https://www.usu.edu/covid-19/questionnaire/index.php>). Upon doing so, the University [COVID CARE Team](#) (<https://www.usu.edu/covid-19/if-you-are-sick/care-team.php>) will contact you to determine your needs and how to support you. The CARE Team will also contact your instructors and provide important direction on how best to accommodate your needs. For additional reference, please see USU's [Attendance and Excused Absence](#) (<https://catalog.usu.edu/content.php?catoid=12&navoid=3160>) policy and the [COVID-19 Classroom Accommodations](#) (<https://www.usu.edu/covid-19/operations/accommodations>) page.

Reducing COVID-19 Risk

You can help keep classes, events, and activities happening in person this semester by following these steps:

1. **Get vaccinated if you're able.** Vaccines are the best available tool to help stop the spread of COVID-19. They are safe, free, and easy to access.
2. **If you are vaccinated, let USU know.** Please [upload your proof of full vaccination](http://agglehealth.usu.edu/) (<http://agglehealth.usu.edu/>), to AggieHealth. If you are exposed to COVID-19, USU's case containment will not require you to quarantine if they know you are vaccinated and you do not have symptoms.
3. **Stay home if you're sick** and [get tested for COVID-19](#) if you have symptoms or have been exposed. It's important to not bring any illness to campus.
4. **Wear a mask indoors.** Public health experts recommend that even vaccinated people wear masks indoors in high COVID-19 transmission areas, which includes most of Utah.

If USU's COVID Case Containment team identifies an uncontained situation in the classroom, you will be notified of any temporary changes to your course delivery method through a Canvas announcement. Please make sure you are receiving immediate notifications of new Canvas announcements. The situation will be handled according to protocols on the [COVID Classroom Exposure](#) (<https://www.usu.edu/covid-19/students/classroom-exposure>) page.

Class Seating Charts (For In-Person Classes)

In classes with more than 10 students, a seating chart will be used to track where you are sitting. After the first week of classes, your instructor will tell you how to enter your seat number in Canvas. **You must sit in the same seat for the rest of the semester.** This is extremely important for tracking cases of COVID-19 and helping classes remain in person.

Academic Freedom and Professional Responsibilities

Academic freedom is the right to teach, study, discuss, investigate, discover, create, and publish freely. Academic freedom protects the rights of faculty members in teaching and of students in learning. Freedom in research is fundamental to the advancement of truth. Faculty members are entitled to full freedom in teaching, research, and creative activities, subject to the limitations imposed by professional responsibility. [Faculty Code Policy #403](#) (<http://www.usu.edu/hr/files/uploads/Policies/403.pdf>) further defines academic freedom and professional responsibilities.

Academic Integrity – "The Honor System"

Each student has the right and duty to pursue his or her academic experience free of dishonesty. To enhance the learning environment at Utah State University and to develop student academic integrity, each student agrees to the following Honor Pledge:

"I pledge, on my honor, to conduct myself with the foremost level of academic integrity."

A student who lives by the Honor Pledge is a student who does more than not cheat, falsify, or plagiarize. A student who lives by the Honor Pledge:

- Espouses academic integrity as an underlying and essential principle of the Utah State University community;
- Understands that each act of academic dishonesty devalues every degree that is awarded by this institution; and
- Is a welcomed and valued member of Utah State University.

Academic Dishonesty

The instructor of this course will take appropriate actions in response to Academic Dishonesty, as defined the University's Student Code. Acts of academic dishonesty include but are not limited to:

- **Cheating:** using, attempting to use, or providing others with any unauthorized assistance in taking quizzes, tests, examinations, or in any other academic exercise or activity. Unauthorized assistance includes:
 - Working in a group when the instructor has designated that the quiz, test, examination, or any other academic exercise or activity be done "individually;"
 - Depending on the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments;
 - Substituting for another student, or permitting another student to substitute for oneself, in taking an examination or preparing academic work;
 - Acquiring tests or other academic material belonging to a faculty member, staff member, or another student without express permission;
 - Continuing to write after time has been called on a quiz, test, examination, or any other academic exercise or activity;
 - Submitting substantially the same work for credit in more than one class, except with prior approval of the instructor; or engaging in any form of research fraud.
- **Falsification:** altering or fabricating any information or citation in an academic exercise or activity.
- **Plagiarism:** representing, by paraphrase or direct quotation, the published or unpublished work of another person as one's own in any academic exercise or activity without full and clear acknowledgment. It also includes using materials prepared by another person or by an agency engaged in the sale of term papers or other academic materials.

For additional information go to: [ARTICLE VI. University Regulations Regarding Academic Integrity.](#)

<https://studentconduct.usu.edu/studentcode/article6>

Sexual Harassment/Title IX

Utah State University is committed to creating and maintaining an environment free from acts of sexual misconduct and discrimination and to fostering respect and dignity for all members of the USU community. Title IX and [USU Policy 339 \(http://www.usu.edu/policies/339\)](http://www.usu.edu/policies/339), address sexual harassment in the workplace and academic setting.

The university responds promptly upon learning of any form of possible discrimination or sexual misconduct. Any individual may contact USU's [Office of Equity \(https://equity.usu.edu\)](https://equity.usu.edu), for available options and resources or clarification. The university has established a complaint procedure to handle all types of discrimination complaints, including sexual harassment ([USU Policy 305 \(http://www.usu.edu/policies/305/\)](http://www.usu.edu/policies/305/)), and has designated the Office of Equity Director/Title IX Coordinator as the official responsible for receiving and investigating complaints of sexual harassment.

Withdrawal Policy and "I" Grade Policy

Students are required to complete all courses for which they are registered by the end of the semester. In some cases, a student may be unable to complete all of the coursework because of extenuating circumstances, but not due to poor performance or to retain financial aid. The term 'extenuating' circumstances includes: (1) incapacitating illness which prevents a student from attending classes for a minimum period of two weeks, (2) a death in the immediate family, (3) financial responsibilities requiring a student to alter a work schedule to secure employment, (4) change in work schedule as required by an employer, or (5) other emergencies deemed appropriate by the instructor.

Students with Disabilities

USU welcomes students with disabilities. If you have, or suspect you may have, a physical, mental health, or learning disability that may require accommodations in this course, please contact the [Disability Resource Center \(DRC\) \(http://www.usu.edu/drc\)](http://www.usu.edu/drc), as early in the semester as possible (University Inn # 101, (435) 797-2444, [drc@usu.edu \(mailto:drc@usu.edu\)](mailto:drc@usu.edu)). All disability related accommodations must be approved by the DRC. Once approved, the DRC will coordinate with faculty to provide accommodations.

Students who are at a higher risk for complications from COVID-19 or who contract COVID-19 may also be eligible for accommodations.

Diversity Statement

Regardless of intent, careless or ill-informed remarks can be offensive and hurtful to others and detract from the learning climate. If you feel uncomfortable in a classroom due to offensive language or actions by an instructor or student(s) regarding ethnicity, gender, or sexual orientation, contact:

- Division of Student Affairs: [https://studentaffairs.usu.edu \(https://studentaffairs.usu.edu\)](https://studentaffairs.usu.edu), (435) 797-1712, [studentservices@usu.edu \(mailto:studentservices@usu.edu\)](mailto:studentservices@usu.edu), TSC 220
- Student Legal Services: [https://ususa.usu.edu/student-association/student-advocacy/legal-services \(https://ususa.usu.edu/student-association/student-advocacy/legal-services\)](https://ususa.usu.edu/student-association/student-advocacy/legal-services), (435) 797-2912, TSC 326,
- Access and Diversity: [http://accesscenter.usu.edu \(http://accesscenter.usu.edu\)](http://accesscenter.usu.edu), (435) 797-1728, [access@usu.edu \(mailto:access@usu.edu\)](mailto:access@usu.edu); TSC 315
- Multicultural Programs: [http://accesscenter.usu.edu/multiculture \(http://accesscenter.usu.edu/multiculture\)](http://accesscenter.usu.edu/multiculture), (435) 797-1728, TSC 315
- LGBTQA Programs: [http://accesscenter.usu.edu/lgbtqa \(http://accesscenter.usu.edu/lgbtqa\)](http://accesscenter.usu.edu/lgbtqa), (435) 797-1728, TSC 3145
- Provost's Office Diversity Resources: [https://www.usu.edu/provost/diversity \(https://www.usu.edu/provost/diversity/\)](https://www.usu.edu/provost/diversity), (435) 797-8176

You can learn about your student rights by visiting:

The Code of Policies and Procedures for Students at Utah State University: [https://studentconduct.usu.edu/studentcode \(https://studentconduct.usu.edu/studentcode\)](https://studentconduct.usu.edu/studentcode)

Grievance Process

Students who feel they have been unfairly treated may file a grievance through the channels and procedures described in the Student Code: [Article VII](https://studentconduct.usu.edu/studentcode/article7) (<https://studentconduct.usu.edu/studentcode/article7>).

Full details for USU Academic Policies and Procedures can be found at:

- [Student Conduct](http://www.usu.edu/studentconduct) (<http://www.usu.edu/studentconduct>)
- [Student Code](https://studentconduct.usu.edu/studentcode/) (<https://studentconduct.usu.edu/studentcode/>)
- [Academic Integrity](https://studentconduct.usu.edu/studentcode/article6) (<https://studentconduct.usu.edu/studentcode/article6>)
- [USU Academic Policies and Procedures](http://catalog.usu.edu/content.php?catoid=4&navoid=546) (<http://catalog.usu.edu/content.php?catoid=4&navoid=546>)
- [Academic Freedom and Professional Responsibility Policy](http://www.usu.edu/hr/files/uploads/Policies/403.pdf) (<http://www.usu.edu/hr/files/uploads/Policies/403.pdf>)

Emergency Procedures

In the case of a drill or real emergency, classes will be notified to evacuate the building by the sound of the fire/emergency alarm system or by a building representative. In the event of a disaster that may interfere with either notification, evacuate as the situation dictates (i.e., in an earthquake when shaking ceases or immediately when a fire is discovered). Turn off computers and take any personal items with you. Elevators should not be used; instead, use the closest stairs.

Mental Health

Mental health is critically important for the success of USU students. As a student, you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce your ability to participate in daily activities. Utah State University provides free services for students to assist them with addressing these and other concerns. You can learn more about the broad range of confidential mental health services available on campus at [Counseling and Psychological Services \(CAPS\)](https://counseling.usu.edu) (<https://counseling.usu.edu>).

Students are also encouraged to download the "SafeUT App" (<https://healthcare.utah.edu/uni/programs/safe-ut-smartphone-app>) to their smartphones. The SafeUT application is a 24/7 statewide crisis text and tip service that provides real-time crisis intervention to students through texting and a confidential tip program that can help anyone with emotional crises, bullying, relationship problems, mental health, or suicide related issues.

Course Summary:

Date	Details	Due
Mon Aug 30, 2021	CH1 Quiz_beta (https://usu.instructure.com/courses/676439/assignments/3417163)	due by 11:59pm
	CH1 video (https://usu.instructure.com/courses/676439/assignments/3417166)	due by 11:59pm
	CH2 Quiz a_beta (https://usu.instructure.com/courses/676439/assignments/3417135)	due by 11:59pm
Fri Sep 3, 2021	CH2 Quiz b_beta (https://usu.instructure.com/courses/676439/assignments/3417151)	due by 11:59pm
	Science Conceptions 1 (https://usu.instructure.com/courses/676439/assignments/3417164)	due by 11:59pm
Sat Sep 4, 2021	HW CH1 (https://usu.instructure.com/courses/676439/assignments/3417175)	due by 11:59pm
Mon Sep 6, 2021	CH2 Quiz c_beta (https://usu.instructure.com/courses/676439/assignments/3417146)	due by 11:59pm
Fri Sep 10, 2021	CH2 video (https://usu.instructure.com/courses/676439/assignments/3417167)	due by 11:59pm
Fri Sep 24, 2021	Exam 1 CH1-2 (Remotely Proctored) (https://usu.instructure.com/courses/676439/assignments/3417149)	due by 8pm
Sat Sep 25, 2021	HW CH2 (https://usu.instructure.com/courses/676439/assignments/3417176)	due by 11:59pm
Fri Oct 1, 2021	CH3 video (https://usu.instructure.com/courses/676439/assignments/3417169)	due by 11:59pm
Fri Oct 15, 2021	HW CH3 (https://usu.instructure.com/courses/676439/assignments/3417177)	due by 11:59pm
Fri Oct 22, 2021	CH3 Quiz a (https://usu.instructure.com/courses/676439/assignments/3417156)	due by 11:59pm
Mon Oct 25, 2021	CH3 Quiz b (https://usu.instructure.com/courses/676439/assignments/3417143)	due by 11:59pm
	CH3 Quiz c (https://usu.instructure.com/courses/676439/assignments/3417159)	due by 11:59pm
Wed Oct 27, 2021	CH3 Quiz d (https://usu.instructure.com/courses/676439/assignments/3417133)	due by 11:59pm
	CH3 Quiz e (https://usu.instructure.com/courses/676439/assignments/3417153)	due by 11:59pm
Fri Oct 29, 2021	CH4 Lecture Videos (https://usu.instructure.com/courses/676439/assignments/3417169)	due by 11:59pm

Date	Details	Due
	CH4 Quiz a.2	due by 11:59pm
	CH4 Quiz b.2	due by 11:59pm
	CH4 Quiz c.2	due by 11:59pm
	CH4 Quiz d.2	due by 11:59pm
	HW CH4	due by 11:59pm
Wed Nov 3, 2021	Exam 2 CH3 and CH4 (Remotely Proctored)	due by 11:59pm
Fri Nov 19, 2021	CH5 Quiz a	due by 11:59pm
	HW CH5	due by 11:59pm
Fri Nov 26, 2021	CH5 Quiz b	due by 11:59pm
Sun Nov 28, 2021	CH5 Lecture Videos	due by 11:59pm
	CH6 Lecture Videos	due by 11:59pm
	CH6 Quiz a	due by 11:59pm
	CH6 Quiz b	due by 11:59pm
Mon Nov 29, 2021	CH6 Quiz c	due by 11:59pm
	CH6 Quiz d	due by 11:59pm
	Exam 3b CH5 & CH6 (Remotely Proctored)	due by 11:59pm
	HW CH6	due by 11:59pm
Sun Dec 5, 2021	CH7 Lecture Videos	due by 11:59pm
Wed Dec 8, 2021	CH8 Lecture Videos	due by 11:59pm
	Science Conceptions II	due by 11:59pm
	CH7 Quiz a	due by 11:59pm
	CH7 Quiz b	due by 11:59pm
	CH7 Quiz c	due by 11:59pm
Fri Dec 10, 2021	CH7 Quiz d	due by 11:59pm
	CH8 Quiz a	due by 11:59pm
	CH8 Quiz b	due by 11:59pm
	HW CH8 Solution Chemistry	due by 11:59pm
Sat Dec 11, 2021	HW CH7	due by 11:59pm
Mon Dec 13, 2021	Exam 4 CH7 & CH8* (Remotely Proctored)	due by 11:59pm
	EC for survey(s)	
	Post-Breadth Physical Sciences (BPS): Criteria 1	



Date	Details	Due
	Practice Quiz (Remotely Proctored) <small>(https://usu.instructure.com/courses/676439/assignments/3417140)</small>	
	Pre-Breadth Physical Sciences (BPS): Criteria 1 <small>(https://usu.instructure.com/courses/676439/assignments/3417184)</small>	