



CHEM 1211 – Principles of Chemistry I

Course Syllabus – Summer 2020

Individuals with disabilities who need to request accommodations should contact the Disability Resource Center, Edgewater Hall, Suite 255; 678-466-5445;
DisabilityResourceCenter@clayton.edu.

INSTRUCTOR INFORMATION

Aubrey Dyer, PhD

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Phone (404) 939-0041
Website <http://faculty.clayton.edu/adyer3>
Office Microsoft Teams Virtual Office Hours
Office hours By appointment

The best way to contact me is via email. If you do not get a response within one business day, assume I did not get your email. I do not always check email on weekends.

Student-Professor Conferences

I encourage you to meet with me at any mutually convenient time to discuss issues relating to the course. If you are having difficulties with the course, please meet with me as early as you can, so I can address your concerns.

LEARNING ASSISTANT INFORMATION

Raven Woodall

Email rwoodall1@clayton.edu
Office Microsoft Teams Virtual Office Hours
Office hours TBD

Raven is available to help you be successful in this course. She can help with understanding of material, studying habits advice, understanding homework, etc. The full list of office hours for the learning assistants will be posted on D2L.

COURSE DETAILS

Course title: CHEM 1211– Principles of Chemistry I (CRN 50387)

Classroom location and time: This course is 100% online. There will be no on-campus meeting times.

Time Commitment:

- 9 weeks
- Approximately 6-8 hours per week (more if additional studying required)

Principles of Chemistry is a rigorous and demanding science course with firm due dates and understanding of the material required for success. Sufficient time spent on course activities and preparation for assessment is required.

Required materials:

- Good news: your textbook for this class is available for free online! If you prefer, you can also get a print version at a very low cost. Your book is available in web view and PDF for free. You can also choose to purchase on iBooks or get a print version via the campus bookstore or from OpenStax on Amazon.com. You can use whichever formats you want. Web view is recommended -- the responsive design works seamlessly on any device. If you buy on Amazon, make sure you use the link on your book page on openstax.org so you get the official OpenStax print version. (Simple printouts sold by third parties on Amazon are not verifiable and not as high-quality.)
Chemistry: Atoms First from OpenStax, Print ISBN 1938168151, Digital ISBN 1947172182, <https://openstax.org/details/books/chemistry-atoms-first-2e>
- Access to Alta by Knewton, ISBN: 9781635452440. Course access will be available through D2L.

Credit hours: 3.0 semester credit hour

Catalog description: First course in a two-semester sequence covering the fundamental principles and applications of chemistry for science majors. Topics to be covered include composition of matter, stoichiometry, periodic relations, and nomenclature.

Pre-requisites: MATH 1112A (or MATH 1113 or MATH 1501) with a minimum US grade of D (can be taken concurrently).

Co-requisites: CHEM 1211L.

LEARNING OUTCOMES

Course Learning Goals

Following the completion of this course, each student should:

- Perform conversions between units
- Differentiate between molecules, ions, molecular compounds, and ionic compounds
- Interpret simple chemical nomenclature
- Perform stoichiometric calculations and identify types of reactions
- Analyze atomic and molecular structures

Chemistry Learning Outcomes

CHEM 1211 is a required course in the B.S. degree program in Chemistry.

Upon completion of this course, students will be able to:

1. Demonstrate knowledge of the basic principles of majors fields of chemistry. (Outcome 1)
2. Apply knowledge of physics and mathematics to solve chemical problems. (Outcome 4)
3. Evaluate and interpret scientific data, and employ critical thinking to solve problems in chemistry and supporting fields. (Outcome 6)
4. Identify and describe the impact of chemistry on society. (Outcome 8)

EVALUATION & GRADING

Assignment	Weight (% of grade)
Exam 1	12.5
Exam 2	12.5
Exam 3	12.5
Exam 4	12.5
Comprehensive Final Exam	17
Homework (in Knewton)	15
Quizzes	10
Online Participation	8

Exams: Four online exams will be given during the semester and are to be completed by 11:59pm on the dates listed below. The exams will be timed and no late submissions will be accepted. Material on exams will be taken from assigned reading, posted material, practice problems, quizzes, and Knewton assignments. You are required to have a functioning computer and internet access during the exam. See the note below regarding timed online assessments.

Final Exam: A 2-hour final exam will be given and will be comprehensive. The final exam is to be completed by 11:59m on Monday July 27th. See the note below regarding timed online assessments.

Assignments: Homework assignments will be assigned in Knewton. You will find links to the specific assignments in the content units in D2L. Due dates will be listed in your D2L calendar.

Quizzes: There will be unit quizzes associated with the conclusion of each unit. Links for these quizzes will be at the end of each unit in D2L. See the note below regarding timed online assessments.

***Timed Online Assessments:** *The online quizzes and exams must be taken by the deadline. Late assessments are not accepted. Anyone that does not complete a quiz or exam by the deadline will receive a "0". STUDY for the quizzes and exams! It is timed and designed to be taken without your notes. You will be able to complete it within the time allotted only if you have studied. If you attempt to look through your notes you may run out of time. After the quiz deadline has expired, you may access the listing of missed questions.*

Your grade will be determined as follows:

Grade	Percentage
A	90 - 100%
B	80 – 89%
C	70 – 79%
D	60 – 69%
F	below 59%

Mid-term progress report: The mid-term grade in this course will be issued by June 22nd. All students will have their course average updated on D2L. Students may choose to withdraw from the course and receive a grade of "W." Students pursuing this option must fill out an official withdrawal form, available in the Office of the Registrar, by mid-term, which occurs on June 24th. [Instructions for withdrawing are provided at this link.](#)

The last day to withdraw without academic accountability is Wednesday, June 24, 2020.

Course Schedule:

The course schedule is provided in the table below. Links for suggested reading, learning objectives, practice problems, and supplementary material will be posted in D2L. The instructor reserves the right to modify the course schedule. If such a need arises, it will be communicated to the class. Please see the suggested course schedule and check-list in D2L for suggestions on completion of tasks timing.

UNIT	CHAPTERS/TOPICS	DUE DATE (11:59pm)
	Introduction	June 3
1	Chapter 1: Essential Ideas	May 31
2	Chapter 2: Atoms, Molecules, and Ions	June 7
1 & 2	Exam 1	June 8
3	Chapter 3: Electronic Structure and Periodic Properties of Elements	June 14
4	Chapter 4: Bonding and Molecular Geometry	June 21
3&4	Exam 2	June 22
	Last day to withdraw without academic accountability	June 24
5	Chapter 6: Composition of Substances and Solutions	June 28
6	Chapter 7: Stoichiometry of Chemical Reactions	July 5
5 & 6	Exam 3	July 6
7	Chapter 8: Gases	July 12
8	Chapter 9: Thermochemistry	July 19
7&8	Exam 4	July 20
1-8	Final Exam	July 27

COURSE POLICIES

General Policy

Students must abide by policies in the Clayton State University Student Handbook, and the [Basic Undergraduate Student Responsibilities](#). The Student Handbook is part of the [Academic Catalog and Student Handbook](#).

University Attendance Policy

Students are expected to attend and participate in every class meeting. Instructors establish specific policies relating to absences in their courses and communicate these policies to the students through the course syllabi. Individual instructors, based upon the nature of the

course, determine what effect excused and unexcused absences have in determining grades and upon students' ability to remain enrolled in their courses. The university reserves the right to determine that excessive absences, whether justified or not, are sufficient cause for institutional withdrawals or failing grades.

Course Attendance Policy: As an online class, attendance is not required. However, students are expected to log into Desire2Learn each week and complete the assignments outlined in the module for the respective week.

Missed/Late Work

Exams and Quizzes: There will be four online exams and eight online chapter quizzes.

Make-up exams or quizzes will not be given. A missed examination, either excused or unexcused, will result in an increase in the percentage of the final exam. Only one exam can be missed during the semester. A missed final exam will result in a zero for the final exam unless prior arrangements have been made with the instructor. See the schedule for the completion due dates for the chapter quizzes and exams.

Assignments: Online learning assignments will be assigned via Knewton. It is your responsibility to complete the homework assignments on time. Grades will be recorded to the gradebook at the due date. You may continue to work on the assignments after the due date until 100% mastery is achieved. If mastery is not achieved, the lower grade stands. It is to your benefit to continue working on the assignments after the due date to achieve mastery.

Academic Dishonesty

Any type of activity that is considered dishonest by reasonable standards may constitute academic misconduct. The most common forms of academic misconduct are cheating and plagiarism. All instances of academic dishonesty will result in a grade of zero for the work involved. All instances of academic dishonesty will be reported to the [Office of Community Standards](#). Judicial procedures are described in the section of the [Academic Catalog and Student Handbook](#) titled, Procedures for Adjudicating Alleged Academic Conduct Infractions.

Specific forms of cheating on exams include, but are not limited to, copying, using supplementary material not allowed (see exam policies below), submitting another's work as your own (including using third parties to obtain answers to homework, quizzes, or exams).

Disruption of the Learning Environment

Behavior which disrupts the teaching–learning process during class activities will not be tolerated. While a variety of behaviors can be disruptive in a classroom setting, more serious examples include belligerent, abusive, profane, and/or threatening behavior. A student who fails to respond to reasonable faculty direction regarding classroom behavior and/or behavior while participating in classroom activities may be dismissed from class. A student who is dismissed is entitled to due process and will be afforded such rights as soon as possible following dismissal. If found in violation, a student may be administratively withdrawn and may receive a grade of WF.

More detailed descriptions of examples of disruptive behavior are provided in the Code of Conduct and Disciplinary Procedures sections of the Clayton State University [Academic Catalog and Student Handbook](#).

Common examples of disruptive behavior in an online class are as follows, but are not limited to:

- a. Monopolizing classroom discussions
- b. Failing to respect the rights of others students to express their viewpoints
- c. Inappropriate language
- d. Refusal to comply with faculty direction in Online Etiquette (Netiquette).
Discussion boards, chat, and e-mail spaces within this course are for class purposes only, unless otherwise stated. Please remember to conduct yourself collegially and professionally. Unlike the classroom setting, what you say in the online environment is documented and not easily erased or forgotten. The following guidelines apply:
 - i. Avoid using ALL CAPS, sarcasm, and language that could come across as strong or offensive.
 - ii. Use proper punctuation, grammar, and be sure to edit your contribution before posting.
 - iii. Read all postings before posting your responses to discussion topics so as to not unnecessarily repeat information.
 - iv. Keep chat comments brief and to the point.
 - v. Focus on one topic at a time when chatting or posting to discussions.
 - vi. Remember that unlike in face-to-face learning environments what you say in discussions and chats is documented and available to be revisited. Choose your words and discussion topics carefully.
 - vii. E-mail should only be used for messages pertaining to the course. Please refrain from sending forwards, jokes, etc. within e-mail.

Weapons on Campus

Clayton State University is committed to providing a safe environment for our students, faculty, staff, and visitors. Information on laws and policies regulating weapons on campus are available at <http://www.clayton.edu/public-safety/Safety-Security/Weapons>

COMPUTER REQUIREMENTS

Each CSU student is required to have ready access throughout the semester to a notebook computer that meets faculty-approved hardware and software requirements for the student's academic program. Students will sign a statement attesting to such access. For further information on CSU's Official Notebook Computer Policy, please go to <http://www.clayton.edu/hub/itpchoice/notebookcomputerpolicy>.

Computer Skill Prerequisites

- Able to use the Windows™ or Mac™ operating systems
- Able to use Microsoft Word™ and Microsoft Excel™
- Able to send and receive e-mail using Outlook™

Only use your CSU e-mail account or the e-mail system included in D2L to communicate academic information to your instructor.

- Able to attach and retrieve attached files via email
- Able to use a Web browser
- Able to upload and download a document using Desire2Learn
- Able to access and send messages in Desire2Learn
- Able to post discussion topics and respond to other's discussion topics in Desire2Learn
- Able to access class learning materials in the modules in Desire2Learn

** If you are unable to perform these computer tasks, do not have regular access to a computer or reliable internet, it is HIGHLY recommended that you do not take this online class.*

Desire2Learn (Online Classroom)

Students can access course materials on D2L. Posting of your work in D2L is a course requirement. You can gain access to Desire2Learn, by signing on to the SWAN portal and selecting: "D2L" on the top right side. If you experience any difficulties in D2L, please email or call The HUB at TheHub@mail.clayton.edu or (678) 466-HELP. You will need to provide the date and time of the problem, your SWAN username, the name of the course that you are attempting to access, and your instructor's name.

Changes/additions to this syllabus can be made at the instructor's discretion at any time.

Last update: 19 May 2020