

College Chemistry Course Syllabus
2024-2025 School Year
Dr. Steven Johnson

Contact Information:

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Conference Period: 7th Hour, 2:10-3:00 PM

College Chemistry Course Description:

College Chemistry (General Chemistry I) will focus on fundamental principles of chemistry with emphasis on the scientific method, basic chemical reactions, acid-base equilibria, stoichiometry, periodic trends of elements, an introduction to the energy of reactions, atomic structure, simple bonding models, molecular structure, intermolecular forces, and nuclear chemistry. Students will spend three school days at LSSU performing labs in addition to performing labs at Sault High. At the end of the General Chemistry I portion of the course, all students will take the American Chemical Society (ACS) First Term General Chemistry exam. If any time remains in the school year, we will continue our study of College Chemistry to ensure that students are well prepared for success in General Chemistry II.

Purpose Statement:

College Chemistry is a science course intended for college-bound 11th and 12th grade students. Students who take College Chemistry will be concurrently enrolled in General Chemistry I (CHEM 115) at Lake Superior State University (LSSU). General Chemistry I is often required for college students pursuing a science, engineering, pre-medical, pre-dental, pre-veterinary, health-related, pharmacy, forensic science, or technology degree.

Prerequisites:

Students should have a “B” or better in Algebra 1, Proof Geometry, and Honors Chemistry. Prior or concurrent enrollment in Algebra 2 is required. Prior or concurrent enrollment in Physics is recommended. You must also meet LSSU’s admissions requirements (see your high school counselor).

Course Materials:

Our course text will be Chang, R. (2010). *Chemistry* (10th ed). Boston: McGraw-Hill, and our lab text will be LSSU’s *CHEM 115 Laboratory Manual*. You will also need a scientific calculator.

Evaluation Criteria:

Based on a Points-Based System

Tests	45%
Final	25%
Lab	10%
Quizzes	10%
Homework	10%

45 % Tests. There will be two or three tests per marking period. Tests may cover multiple chapters from the textbook. Remember to bring a scientific calculator on test days. Graphing calculators must have their memories cleared. A Periodic Table of the Elements will be provided.

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45 % Tests. There will be two or three tests per marking period. Tests may cover multiple chapters from the textbook. Remember to bring a scientific calculator on test days. Graphing calculators must have their memories cleared. A Periodic Table of the Elements will be provided.

10 % Laboratory Activities. ***You will receive lab safety training throughout the school year, and you will be expected to work safely while participating in all lab activities.*** We will perform labs at both the high school and LSSU. On lab days, your attendance at LSSU is required. Missing more than one lab will result in automatic failure of the course (LSSU policy).

10 % Quizzes. There will be approximately ten quizzes during the course. The lowest quiz score will be dropped.

10 % Homework and Classwork. These assignments may include textbook problems, in-class work, computer-based learning, writing assignments, and discussion activities. Tests will emphasize the knowledge and problem-solving skills acquired from completing these assignments. Assignments will be posted to www.saultschools.org/Page/8672.

Grading Scale:

93-100	A	73-77	C
90-92	A-	70-72	C-
88-89	B+	68-69	D+
83-87	B	63-67	D
80-82	B-	60-62	D-
78-79	C+	0-59	E

Although a student must earn at least a “D-” (60 %) in order to pass the course at Sault High, a student must earn a **“C-” (70%) or higher** to enroll in General Chemistry II (CHEM 116) at LSSU.

Test Retakes:

No quiz or test retakes are available, and no extra credit is available.

Assignment Policy:

Late assignments will only be accepted in the case of an excused absence.

Make-up Work:

For each excused absence, a student will be given one day to complete make-up assignments. If you know you will miss a scheduled quiz, test, or LSSU lab day you need to contact me prior to the absence to make arrangements for the make-up. Students will have a maximum of **one week** from an absence to complete a missed quiz, test, or lab. Otherwise the score will be zero. Make arrangements with me to

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complete missed quizzes, tests, or labs before or after school. After ten unexcused absences, a student's work will no longer be scored.

Special Needs:

Dr. Johnson requests that students with special needs privately inform him of their needs during the first two weeks of school. This will ensure that appropriate accommodations are made in collaboration with a special education teacher.

Classroom Expectations:

- (1) Students will come to class prepared to learn. Bring the textbook, paper, a pencil, and a scientific calculator to class every day. Hall passes will not be issued to students who forget to bring their textbook.
- (2) Students will take notes and actively participate in both classroom and online activities.
- (3)
- (4) Students will respect the teacher, classmates, and visiting staff members. For example, when I am speaking, you should be listening rather than talking to friends. When others are speaking, you should be respectful toward them while they express thoughts or feelings related to the class. Actions or comments unkind to other students will not be tolerated.
- (5) Students will respect school property and the property of others. For example, please do not sit on any desks or lab tables. Please do not write on the desks. Take your textbook with you when class is over. In addition, do not use or take things that belong to other people.
- (6) Students will know the safety rules and work safely in the laboratory.
- (7) Students will use the drinking fountain and bathroom before coming to class. Hall passes will be reserved for emergencies only. Smart Pass must be used if a student has to leave the room.
- (8) Students will read and follow the rules described in the student handbook. A copy of the handbook can be found at www.saultschools.org/domain/481. For example, in the classrooms, students are not allowed to have backpacks, wear hats, wear hoods, eat food, or drink pop.
- (9) Students will be honest when taking tests. Any student suspected of cheating or assisting another student in cheating will receive a zero and will not be allowed to retake the test. With the exception of a scientific calculator, no electronic devices are permitted. LSSU handles any form of cheating or plagiarism in accordance with the University policy on academic integrity: <https://www.lssu.edu/wp-content/uploads/2017/05/Academic-Integrity-Policy.pdf>.
- (10) Students will not use phones, ear buds, or smart watches at school
- (11) Students will keep noise levels within acceptable limits during labs.

Failure to “live up” to these expectations may result in verbal warnings, having to stay after class, phone calls home, conferences with a parent or guardian, grade reduction for specific assignments, detention before or after school with the teacher, or referral to the assistant principal depending upon the nature and severity of a student’s offenses.

Classroom Procedures:

- Seating Chart:** Each class has a seating chart. You are expected to sit in your assigned seat during the entire class period every day, unless otherwise instructed.
- Tardiness:** You are tardy if you are not in your assigned seat when the bell rings. Tardiness will be handled as described in the student handbook. Excessive tardiness will result in a referral to the Assistant Principal.

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- Technology:*** No cell phones, ear buds, or smart watches are allowed in the classroom at any time. Please refer to the SAHS electronics policy.
- Course Assistance:*** Immediately after school is a good time to see me if you need course assistance.