



# Chemistry 1 Syllabus

## Course Details

**Course Code:** 323100CW

**Subject:** Science

**Required Prerequisites:** Biology

**Suggested Prerequisites:** None

**Recommended Grade Levels:** 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup>

**Duration:** Yearlong

**Course Availability:** A listing of when this course is offered in the current school year can be found on the [VirtualSC Current Course Offerings page](#) (opens in a new window).

**Class Times:** This course has scheduled instructional meetings. Information on scheduled meetings for each course is communicated by the teacher. Recordings of these meetings will be available for students unable to attend. Students should expect to spend 7-9 hours a week working on this course independently, in addition to any live meetings, and are expected to meet the deadlines posted in the course pacing guide.

**Textbook:** None

**Required Course Materials:** None

**Outside Websites:** A list of links to websites and online textbooks used in this course can be found here: [VSC Course Links Document Folder \(opens in a new window\)](#). Students will need to be able to access all of these links to access all course materials.

**Final Exam:** Students in this course take a VirtualSC final exam. Details on scheduling and taking final exams can be found on the [Final Exam Page](#) (opens in a new window) of the VirtualSC webpage.

## Course Description

Chemistry is an upper level science course in which students are given a solid introduction to inorganic chemistry. Topics covered include organic and inorganic chemistry, chemical bonding, chemical reactions, balancing chemical equations,

periodic trends, properties of metals, nonmetals, and metalloids, stoichiometry, molecular geometry, chemical equilibrium, acids and bases, and nuclear chemistry.

The curriculum used in this course is guided by the [South Carolina Academic Standards and Performance Indicators for Science](#).

## Scope and Sequence

- Unit 00: Ground Zero
- Unit 01: Fundamentals of Chemistry
- Unit 02: Atomic Theory and Periodicity
- Unit 03: Nuclear Processes
- Unit 04: Chemical Bonding--Electron Movement
- Unit 05: Chemical Reactions
- Unit 06: Stoichiometry: Ratios and Relationships
- Unit 07: Properties and Behavior of Matter
- Unit 08: Thermochemistry and Chemical Kinetics
- Unit 09: Capstone Project
- Unit 10: Final Exam

Students will be sent a full list of assignments and their due dates at the beginning of the course.

Current pacing guides for this course can be found on the [Current Course Offerings page](#) (opens in a new window) on the VirtualSC website.

## Course Grades

The final grade in this course results from the following:

- Coursework: 80%
- Final Exam: 20%

## VirtualSC Details

Information on VirtualSC student guidelines, policies and technology requirements can be found in the [VirtualSC Student Support Portal \(opens in a new window\)](#).