

JAMESTOWN COMMUNITY COLLEGE
State University of New York

INSTITUTIONAL COURSE SYLLABUS

Course Title: Introduction to Chemistry

Course Abbreviation and Number: CHE 1500

Credit Hours: 3

Course Type: Lecture

Course Description: Students will investigate fundamental concepts of chemistry from a theoretical approach using basic scientific tools of measurement and problem solving. Topics include atomic structure, nomenclature, bonding, periodic behavior, chemical equations, acids and bases, gases, liquids, solids, and properties of solutions. The course is for students with little or no chemistry background and/or who wish to continue in CHE 1551/1552.

Eligibility: ENG 1510 without supports or Corequisite: ENG 1510 with supports; Corequisite: MAT 0550 or Eligibility: College Level Math. J fall; C spring.

General Education Requirements Met

SUNY

Natural Sciences

JCC

Scientific Reasoning

Student Learning Outcomes:

Students who demonstrate understanding can:

1. Demonstrate an understanding of the methods scientists use to explore natural phenomena, including observation, hypotheses development, measurement and data collection, experimentation, evaluation of evidence, and employment of data analysis or mathematical modeling. [SUNY Gen Ed - Natural Sciences]
2. Application of scientific data, concepts, and models in one of the natural sciences. [SUNY Gen Ed - Natural Sciences]

Topics Covered:

- Scientific Method and Data Analysis
- Scientific Uses of Math - Metric System, Accuracy and Precision, and Unit Conversions
- Matter
- Energy
- Atomic Structure
- Bonding
- Periodic Table
- Chemical Formulas
- Chemical Quantities
- Chemical Reactions
- Acid/Base Chemistry
- States of Matter

Information for Students

- Expectations of Students
 - [Civility Statement](#)
 - [Student Responsibility Statement](#)
 - [Academic Integrity Statement](#)
- [Accessibility Services](#)
Students who require accommodations to complete the requirements and expectations of this course because of a disability must make their accommodation requests to the Accessibility Services Coordinator.
- [Get Help: JCC & Community Resources](#)
- [Emergency Closing Procedures](#)
- Course grade is determined by the instructor based on a combination of factors, including but not limited to, homework, quizzes, exams, projects, and participation. Final course grade can be translated into a grade point value according to the following:

A=4.0	B+=3.5	B=3	C+=2.5	C=2	D+=1.5	D=1	F=0
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- Veterans and active duty military personnel with special circumstances (e.g., upcoming deployments, drill requirements, VA appointments) are welcome and encouraged to communicate these to the instructor.

Effective Date: Spring 2026