

JAMESTOWN COMMUNITY COLLEGE
State University of New York
INSTITUTIONAL COURSE SYLLABUS

Course Title: Organic Chemistry 1 Lecture

Course Abbreviation and Number: CHE 2531

Credit Hours: 3

Course Type: LR

Course Description: This course introduces the structures, properties, and reactivity of organic molecules, with emphasis on fundamental principles that govern organic chemistry. Topics include bonding and molecular structure, functional groups, stereochemistry, conformational analysis, reaction mechanisms, and an overview of alkanes, alkenes, alkynes, alcohols, and related compounds. This course is designed for science majors, pre-medical, pre-pharmacy, and other health-related professional tracks.

Prerequisite: CHE 1561+1562; Corequisite: CHE 2532.

General Education Requirements Met:

SUNY

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Student Learning Outcomes:

Students who demonstrate understanding can:

1. Analyze and explain the role of intermolecular forces in determining the physical and chemical properties of organic molecules, solids, liquids, and solutions.
2. Apply principles of kinetics, equilibrium, thermodynamics, and electrochemistry to predict and interpret chemical behavior and reactions.

Topics Covered:

- Electron Structure and Bonding
- Resonance
- Alkanes
- Acids and Bases
- Thermodynamics and Kinetics
- Stereoisomers
- Alkenes
- Alkynes
- Alkyl Halides
- Substitution and Elimination Reactions
- Alcohols and Ethers

Information for Students:

- Expectations of Students
 - [Civility Statement](#)
 - [Student Responsibility Statement](#)
 - [Academic Integrity Statement](#)

- Accessibility Services: <https://www.sunyjcc.edu/accessibility>
- Get Help: <https://www.sunyjcc.edu/gethelp>
- Emergency closings: <https://www.sunyjcc.edu/jccalert>
- Course grades are 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:

Letter Grade	A	B+	B	C+	C	D+	D	F
Numerical Grade	4.0	3.5	3	2.5	2	1.5	1	0

- 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 Term: Fall 2026