

JAMESTOWN COMMUNITY COLLEGE
State University of New York

MASTER COURSE SYLLABUS

Course Title: College Chemistry II

Course Abbreviation and Number: CHE 1560

Credit Hours: 4

Course Type: Lecture/Lab

Course Description: A continuation of CHE 1550, students will investigate intermolecular forces in solids and liquids, solutions, kinetics, equilibrium, acids and bases, thermodynamics, electrochemistry, and nuclear reactions.

Prerequisite: CHE 1550; Prerequisite/Corequisite: MAT 1600 or higher, (or Eligibility: MAT 1710);

Prerequisite/Corequisite: ENG 1530.

General Education Requirements Met

SUNY

Natural Sciences

JCC

Scientific Reasoning

Student Learning Outcomes:

Students who demonstrate understanding can:

1. Write formal scientific laboratory reports that involve measurements, scientific reasoning, data analysis, and drawing conclusions from observations and data.
2. Develop problem-solving skills and complete calculations with regards to kinetics, equilibrium, acids/bases, thermodynamics, and electrochemistry.

A pre-requisite for this course is approved for the SUNY General Education category listed. This course will reinforce the student learning outcomes for this category.

Topics Covered:

- Gases
 - Intermolecular Forces, Liquids, and Solids
 - Properties of Solutions
 - Chemical Kinetics
 - Chemical Equilibrium
 - Acid-Base
 - Chemical Thermodynamics
 - Electrochemistry
 - Nuclear Chemistry
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Information for Students

- Expectations of Students
 - Civility Statement (<http://www.sunyjcc.edu/current-students/classroom-civility>)
 - Student Responsibility Statement (<http://www.sunyjcc.edu/academics/student-responsibility>)
 - Academic Integrity (<http://www.sunyjcc.edu/faculty-staff/academic-integrity>)
- Disability/Special Services
 - Any student who requires accommodations to complete the requirements and expectations of this course because of a disability should make their needs known to the Coordinator of Accessibility Services, 716.338.1251.
- Emergency Closing Procedures (<http://www.sunyjcc.edu/student-life/campus-safety/jcc-alert>)
- 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.
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Effective Date: Fall 2019