

CHEMISTRY (CHE) SOLANO CAMPUS

undefined

CHE Courses

CHE 1110 General Chemistry (3 units)

Term Typically Offered: F

2026-28 or later catalog: GE Area 5A

2020-26 catalogs: GE Area B1

Concurrent: CHE 110L or 1110L.

Offered at Solano Campus. Introduction to fundamental chemical principles and scientific thought. Topics covered include: scientific method, scientific calculations, properties of matter, periodic trends, atomic and molecular structure, chemical reactions and stoichiometry, thermochemistry, gases, solutions, and radioactivity. 3 lectures. Fulfills GE Areas 5A (GE Areas B1 for students on the 2020-26 catalogs). Formerly CHE 110 at Cal Maritime.

CHE 1110L General Chemistry Laboratory (1 unit)

Term Typically Offered: F

2026-28 or later catalog: GE Area 5C

2020-26 catalogs: GE Area B3

Concurrent: CHE 110 or CHE 1110.

Offered at Solano Campus. Expand upon and reinforce chemical concepts introduced in general chemistry. Introduction to chemical experimentation including the processes, instrumentation, and techniques employed in a chemistry laboratory environment. Topics addressed during experiments include: the scientific method, scientific measurement and uncertainty, error analysis, density, electrolytes and solutions, qualitative chemical analysis, reaction stoichiometry, acid/base titration, gas stoichiometry, thermochemistry, atomic spectroscopy, visible spectroscopy and laboratory safety. 1 laboratory. Fulfills GE Areas 5C (GE Areas B3 for students on the 2020-26 catalogs). Formerly CHE 110L at Cal Maritime.

CHE 2205 Chemistry of Power Plant Processes (3 units)

Term Typically Offered: SP

2026-28 or later catalog: GE Area 5A

2020-26 catalogs: GE Area B1

Prerequisite: CHE 110 or CHE 1110; and CHE 110L or CHE 1110L.

Offered at Solano Campus. Examines the role that water plays in both production and power plant processes. Focus on the nature of liquid mixtures, including equilibrium concepts as they relate to solution chemistry, sources and types of organic and inorganic water contamination, the quantification of water contamination and the pre-treatment and post-treatment of water utilized in plant processes. 3 lectures. Formerly CHE 205 at Cal Maritime.

CHE 2210 General Chemistry II (3 units)

Term Typically Offered: SP

Prerequisite: CHE 110 or CHE 1110 with a grade of C- or better. Concurrent: CHE 210L or CHE 2210L.

Offered at Solano Campus. Builds upon the introduction to fundamental chemical principles and scientific thought. Advanced theories of covalent bonding, introduction to organic chemistry, kinetics, equilibrium, thermodynamics, and electrochemistry. 3 lectures. Formerly CHE 210 at Cal Maritime.

CHE 2210L General Chemistry II Laboratory (1 unit)

Term Typically Offered: SP

Prerequisite: CHE 110L or CHE 1110L with a grade of C- or better. Concurrent: CHE 210 or CHE 2210.

Offered at Solano Campus. Expand upon and reinforce scientific methods, scientific measurement and uncertainty, error analysis, quantitative chemical analysis, chemical kinetics, equilibrium, acid/base titration, buffers, solubility, electrochemistry, visible spectroscopy and laboratory safety. 1 laboratory. Formerly CHE 210L at Cal Maritime.

CHE 3340 Introductory Biochemistry (3 units)

Term Typically Offered: SP

Prerequisite: CHE 210 or CHE 2210; and OCN 100 or OCN 1100.

Offered at Solano Campus. Introduction to the composition, chemical structures, and chemical reactions of living things. Specific topics include: structure and function of biological macromolecules, metabolic pathways, and the molecular basis of genetics and gene expression. 3 lectures. Formerly CHE 340 at Cal Maritime.