Chemistry Major (52 credit hours) 2018-2019

Major Requirements:
(CHEM 1000 and 2700 do not apply toward the major)

40 credit hours from:
  • CHEM 2110, General Chemistry I, 4 credit hours
  • CHEM 2120, General Chemistry II, 4 credit hours
  • CHEM 2210, Organic Chemistry I, 4 credit hours
  • CHEM 2220, Organic Chemistry II, 4 credit hours
  • CHEM 3100, Analytical Chemistry, 4 credit hours
  • CHEM 4510, Senior Physical Science Practicum I, 1 credit hour
  • CHEM 4520, Senior Physical Science Practicum II, 1 credit hour
  • CHEM 4910, Science Seminar I, 1 credit hour
  • CHEM 4920, Science Seminar II, 1 credit hour
  • MATH 2010, Calculus I, 4 credit hours
  • MATH 2020, Calculus II, 4 credit hours
  • PHYS 2240, General Physics I, 4 credit hours
  • PHYS 2250, General Physics II, 4 credit hours

4 credit hours from:
  • CHEM 4110, Thermodynamics and Kinetics, 4 credit hours
  • CHEM 4120, Quantum Theory, 4 credit hours

8 credit hours remaining from additional upper-division (3000-level and above) CHEM courses

Proposed course sequence:
Freshman: CHEM 2110, MATH 2010; CHEM 2120, MATH 2020
Sophomore: CHEM 2210; CHEM 2220, PHYS 2240
Junior: CHEM 3100, CHEM Elective, PHYS 2250: CHEM Elective
Senior: CHEM 4110/4120, 4510, 4910; CHEM 4520, 4920

• CHEM 2110, General Chemistry I, is a Scientific Ways of Knowing course in the Liberal Arts Program.
• CHEM 3100, Analytical Chemistry, is a Writing Intensive course in the Liberal Arts Program.
• CHEM 4910/4920, Science Seminar I/II, is both a Speaking & Writing Intensive course in the Liberal Arts Program.
• MATH 2010, Calculus I, is a Quantitative Reasoning course in the Liberal Arts Program.

Questions? Please contact the Department of Physical Sciences & Engineering.
The study of chemistry introduces students to the world of atoms and molecules and their composition and interactions. This study is recommended for chemistry majors and minors as preparation for graduate school, medical school, secondary-level teaching, or careers in government or industrial laboratories. It is also recommended for physics or biology students to supplement and complement their major fields of study.

**Among the CHEM Electives (3000 or higher), students must take CHEM 4110 or CHEM 4120.**