

www.Chem.Pitt.edu

Revised: 03/2022

Chemistry is the most central of sciences. It is involved in natural processes occurring in living things, the earth, the oceans, and the atmosphere. The chemical industry provides materials to feed, clothe, and house mankind; drugs to combat disease; and processes to provide energy for societal needs. Chemistry is playing an ever-increasing role in our society, particularly in high technology fields such as molecular biology, microelectronics, drug design, and ceramics. The chemistry curriculum provides a rigorous, comprehensive background in the four primary areas of chemistry. The program is appropriate for students who plan to attend graduate school or pursue American Chemical Society (ACS) certification.

The chemistry degree includes Dietrich School General Education Requirements, core chemistry courses, and electives. These electives include undergraduate research, in collaboration with departmental faculty, and courses in frontier areas of chemistry and related fields. It offers special options for students with specific interests in combining chemistry with other subjects, such as Bioscience. These options involve additional courses in the chosen second discipline with a limited overlap of selected required science courses. These elective courses will allow students to focus free credits into a sequence that gives them an in-depth introduction to the subject and will be relevant to their career goals.

The degree in chemistry prepares students for a career in business or industry, or for advanced study in chemistry. Combined with core biology courses, students frequently select the Chemistry major as the preferred major for admission to the graduate health professions, including medical and dental school. In combination with the education option, the chemistry major is prepared to enter a certification program leading to a career in secondary science teaching. Chemists at all levels of training have a wide variety of industrial and corporate career opportunities: in agricultural

Required courses for the Chemistry major

The major requires the completion of 61 credits distributed as follows.

Chemistry courses

CHEM 0110 General Chemistry 1 or CHEM 0710 UHC General

Satisfactory/No Credit option

CHEM 0110, CHEM 0120, and all required Mathematics and Physics courses can be taken on an S/NC basis.

Writing (W) requirement

Students must complete at least one W-course in the major.

Honors major requirements

To earn departmental honors in chemistry, the student must have an overall minimum GPA of 3.0;

- x maintain a minimum GPA of 3.25 in all required CHEM courses;
- x present two credits of CHEM 1710 Undergraduate Research;
- x present one credit of CHEM 1711 Undergraduate Research Writing.

Advising

George C. Bandik
Director of Undergraduate Studies
CHVRN 107
412-624-8212
Bandik@Pitt.edu

Checklist and suggested plan of study for the Chemistry major

Fall freshman year

_____ CHEM 0110 / 0710
_____ MATH 0220

Spring freshman year

_____ CHEM 0120 / 0720
_____ MATH 0230 / 0235

Fall sophomore year

_____ CHEM 0310 / 0730
_____ CHEM 1000 / MATH
0240
_____ PHYS 0174 / 0475

Spring sophomore year

_____ CHEM 0320 / 0740
_____ CHEM 0345
_____ PHYS 0175 / 0476
_____ PHYS 0219

Fall junior year

_____ CHEM 0250
_____ CHEM 0260
_____ CHEM 1410
_____ PHYS 0219 / 0577

Spring junior year

_____ CHEM 1250
_____ CHEM 1255
_____ CHEM 1420
_____ CHEM 1430

Fall senior year

_____ CHEM 1130
_____ CHEM 1440
_____ Science Elective

Spring senior year

_____ CHEM 1140
_____ CHEM W course

Curricular options for the Chemistry major

Each option allows for the waiver of CHEM 1140, CHEM 1440, and the science elective.

Bioscience option (14-credit minimum)

_____ BIOSC 0057
_____ BIOSC 0150 / BIOSC 0715
_____ BIOSC 0067
_____ BIOSC 004 Tc 0.0DsC -10.012 -1.2298c 0.002.7 (S)-0.8 (C29 Td[])-12 (Td[])-12 (64 Tm[E]-7 (a)-3.9 (ch)T0 Tc 0 Tw 1.928 0 Td)TjEM