University of Pittsburgh Greensburg

Chemistry

undergraduate program

Chemistry

63-65 credits
Bachelor of Science

A Bachelor of Science in Chemistry is an immensely versatile degree for Pitt-Greensburg students who wish to pursue careers in industry, business, communications, government, agricultural and food science, materials science, clinical science, and environmental science.

The degree also can lead to opportunities for graduate study in the health-related professions, particularly in the medical and dental fields, and opportunities for graduate study in chemistry, chemical engineering, biology, and other sciences.

Employment:

* Government agencies including the National Aeronautics and Space Administration
* Federal, state and local government such as the Centers for Disease Control
* Manufacturing firms including textile, petroleum, food, electronics, glass, paper, packaging, machinery, cosmetics, paint, drug, and chemical industries
* Environmental organizations
* Water processing plants
* College and universities

www.greensburg.pitt.edu

Fall 2022

Basic Courses in Chemistry — 14 courses - 34 credits

CHEM 0110	General Chemistry 1
CHEM 0120	General Chemistry 2
CHEM 0250	Introduction to Analytical Chemistry
CHEM 0260	Introduction to Analytical Chemistry Lab
CHEM 0310	Organic Chemistry 1
CHEM 0320	Organic Chemistry 2
CHEM 0330	Organic Chemistry 1 Lab
CHEM 0340	Organic Chemistry 2 Lab
CHEM 1130	Inorganic Chemistry
CHEM 1250	Instrumental Analysis
CHEM 1255	Instrumental Analysis Lab
CHEM 1410	Physical Chemistry 1
CHEM 1420	Physical Chemistry 2
CHEM 1430	Physical Chemistry Lab

Basic Mathematics Courses — 3 courses - 12 credits

MATH 0220	Analytic Geometry and Calculus 1
MATH 0230	Analytic Geometry and Calculus 2
MATH 0240	Analytic Geometry and Calculus 3

Basic Physics Courses — 3 courses - 10 credits

PHYS 0174	Basic Physics for Science and Engineering 1
PHYS 0175	Basic Physics for Science and Engineering 2
PHYS 0212	Basic Physics Laboratory for Science and Engineering

Science Elective Courses — 1 course - 2-4 credits

BIOSC 1000	Biochemistry
BIOSC 1810	Macromolecular Structure and Function
BIOSC 1820	Metabolic Pathways and Regulation
BIOSC 1825	Biochemistry Laboratory
CHEM 1330	Medicinal Chemistry
CHEM 1035	Introduction to Environmental Chemistry
CHEM 1275	Introduction to Chemometrics
CHEM 1311	Advanced Organic Chemistry
CHEM 1380	Techniques of Organic Research
CHEM 1461	Computational Chemistry
MATH 0250	Ordinary Differential Equations
MATH 1180	Linear Algebra
STAT 1000	Applied Statistical Methods

Additional Requirements — 2 courses - 5 credits

Chemistry majors take the following sequence of courses to fulfill the capstone requirement:

CHEM 1702	Undergraduate Research Writing *(Spring of Junior Year)*
CHEM 1710	Undergraduate Research *(Fall of Senior Year)*