

Chemistry

Degree Type

Bachelor of Science - Major

Major Requirements

Consists of 51-52 credit hours including the following courses:

Required Courses

Course Code	Title	Credits
CHEM-161	General Chemistry I	4
CHEM-162	General Chemistry II	4
CHEM-305	Organic Chemistry I	4
CHEM-310	Organic Chemistry II & Spectroscopy	5
CHEM-370	Advanced Inorganic Chemistry	4
CHEM-380	Instrumental Analysis	4
CHEM-415	Physical Chemistry for the Life Sciences	3
CHEM-427	Physical Chemistry of Solutions with Laboratory	4
CHEM-460	Capstone Seminar	2
MATH-131	Calculus I	3
MATH-132	Calculus II	3
PHYS-221	General Physics I	4
PHYS-222	General Physics II	4

One additional course chosen from the following

Course Code	Title	Credits
CHEM-350	Introduction to Quantum and Statistical Mechanics	3
CHEM-360	Advanced Organic Chemistry	3
CHEM-365	Computational Chemistry	3
CHEM-435	Advanced Physical Chemistry	3
BCHM-355	Biochemistry I	3
BCHM-356	Biochemistry I With Lab	4
BCHM-455	Biochemistry II	3
	Total Credits	51-52

General Education Requirement

The following courses satisfy Bridgewater College's general education requirement for natural and physical sciences:

GEOL/CHEM-102 Earth and its Environment

CHEM-161 General Chemistry I

GEOL-130 Physical Geology

Chemistry Course Prerequisites

MATH-110 or **MATH-118** is a prerequisite for **CHEM-125**.

MATH-110 is a prerequisite for any CHEM course numbered above 125.

MATH-130 or **MATH-131** is a prerequisite for all CHEM courses numbered 350 or above