

Chemistry

Degree Type

Bachelor of Science

Objective:

This major is designed for the student who has goals of pursuing academic research or professional service in fields closely related to chemistry. This program of study fulfills most admission requirements for graduate school, although students should make sure that course work covers any expectations for specific programs.

Administrator: Chair, Department of Chemistry

Requirements : A total of at least 59-65 credits in science and math, including at least 30 credits in chemistry.

Chemistry Core Courses:

Item #	Title	Credits
CHEM2210	General Chemistry I	3
CHEM2210L	General Chemistry I Laboratory	1
CHEM2220	General Chemistry II	3
CHEM2220L	General Chemistry II Laboratory	1
CHEM2610	Analytical Chemistry	3
CHEM2610L	Analytical Chemistry Laboratory	1
CHEM3210	Organic Chemistry I	3
CHEM3210L	Organic Chemistry I Laboratory	1
CHEM3220	Organic Chemistry II	3
CHEM3220L	Organic Chemistry II Laboratory	1
CHEM3310	Inorganic Chemistry	3
CHEM3510	Thermodynamics and Kinetics	3
CHEM3620	Integrated Laboratory I	1
CHEM4610	Integrated Laboratory II	1
CHEM4710	Structure Elucidation	3
CHEM4970	Research	1-6
CHEM4980	Senior Seminar/Capstone	1
MATH2510	Calculus I	4
PHYS2110	Physics for Science and Engineering I	3
PHYS2110L	Physics for Science and Engineering I Laboratory	1
PHYS2120	Physics for Science and Engineering II	3
PHYS2120L	Physics for Science and Engineering II Laboratory	1

CHEM4970: A minimum of one credit is required, but a maximum of six credits in CHEM4970 will be allowed toward the major.

CHEM4980: must be taken at Northwest Nazarene University.

Chemistry Concentration: 13-14 credits

Item #	Title	Credits
MATH2520	Calculus II	4
MATH3540	Differential Equations	4
PHYS4810	Fundamentals of Quantum Mechanics	3

Choose one of the following:

Item #	Title	Credits
	BIOL4410 and BIOL4410L	4
CHEM4720	Advanced Organic Chemistry	3
PHYS4720	Solid State Physics	3

In addition to the above requirements, the student will be required to successfully pass an oral examination or a written subject examination in the field of chemistry.

Total Credits**59-65**
