

Chemistry: Biochemistry

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.

Core Chemistry 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 |
| PHYS1110 | College Physics I | 3 |
| PHYS1110L | College Physics I Laboratory | 1 |
| PHYS1120 | College Physics II | 3 |
| PHYS1120L | College Physics 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.

BioChemistry Courses (14-15 credits):

| Item # | Title | Credits |
|-----------|------------------------------|---------|
| BIOL2220 | General Biology I | 3 |
| BIOL2220L | General Biology I Laboratory | 1 |
| BIOL4410 | Biochemistry I | 3 |
| BIOL4410L | Biochemistry I Laboratory | 1 |
| BIOL4420 | Biochemistry II | 3 |
| | MATH2240 or MATH2520 | 3-4 |

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.

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| Total Credits | 59-65 |
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