

# B.S. Biochemistry

General Education Requirements for all Bachelor's degrees

Quality Enhancement Plan (QEP) Requirement

## Required Courses

Item #	Title	credits
BIOL 111	General Biology I	4
BIOL 112	General Biology II	4
BIOL 340	Cell and Molecular Biology I	4
	Biochemistry Electives	3-4
CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
CHEM 201	Research Methods in the Physical Sciences	1
CHEM 221	Modern Analytical Chemistry	4
CHEM 231	Organic Chemistry I	4
CHEM 232	Organic Chemistry II	4
CHEM 341	Physical Chemistry I	4
CHEM 421	Modern Analytical Instrumentation	4
CHEM 431	Biochemistry I	3
CHEM 432	Biochemistry I Lab	1
CHEM 433	Biochemistry II	3
CHEM 434	Biochemistry II Lab	1
CHEM 475	Research Methods in Chemistry	4

## Required Cognates

Item #	Title	credits
MATH 181	Calculus I	4
MATH 182	Calculus II	4
	MATH 283 or MATH 321	3-4
PHYS 121	General Physics I	4
PHYS 122	General Physics II	4

## Recommended Cognates

Item #	Title	credits
PHYS 221	General Physics with Calculus I	1
PHYS 222	General Physics with Calculus II	1
RELT 419	Philosophy of Science	3
	<b>Total credits:</b>	<b>75-82</b>

## Category Descriptions

### Biochemistry Electives

Credits: 3-4

Item #	Title	credits
BIOL 318	Microbiology & Immunology	4
BIOL 341	Cell and Molecular Biology II	4
BIOL 410	Human Physiology	4
BIOL 450	Histology	4
BIOL 455	Immunology	3

## MATH 283 or MATH 321

Credits: 3-4

Item #	Title	credits
MATH 283	Calculus III	4
MATH 321	Differential Equations	3