

# B.S. Integrative Biology

General Education Requirements for all Bachelor's degrees

Quality Enhancement Plan (QEP) Requirement

## Biology B.S. Core Curriculum

Required of all B.S. students

Item #	Title	credits
BIOL 111	General Biology I	4
BIOL 112	General Biology II	4
BIOL 230	Ecology	4
BIOL 320	Genetics	4
BIOL 419	Philosophy of Science	3

Choose one course from each of the following groups:

Choose two additional electives from any group for 6-8 credits.

Item #	Title	credits
	Biomedical Electives	3-4
	Botany electives:	4
	Ecology electives:	4
	Research Techniques Electives:	3-4
	Zoology Electives:	3-4

Required Cognates:

Item #	Title	credits
CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
	MATH 141 or 180	3-4
	<b>Total credits:</b>	<b>54-59</b>

## Category Descriptions

### Biomedical Electives

Credits: 3-4

Item #	Title	credits
BIOL 318	Microbiology & Immunology	4
BIOL 333	Parasitology	3
BIOL 410	Human Physiology	4
BIOL 450	Histology	4
BIOL 455	Immunology	3

### Botany electives:

Credits: 4

Item #	Title	credits
BIOL 314	Systematic Botany	4
BIOL 360	Plant Biology	4
BIOL 465	Plant Physiology	4

## Ecology electives:

Credits: 4

Item #	Title	credits
BIOL 325	Field Ecology	4
BIOL 335	Limnology	4
BIOL 345	Environment and Mankind	4
BIOL 474	Management of Plant Resources	4
BIOL 475	Management of Fish & Wildlife Resources	4

## Research Techniques Electives:

Credits: 3-4

Item #	Title	credits
BIOL 328	Biostatistics	3
BIOL 340	Cell and Molecular Biology I	4
BIOL 341	Cell and Molecular Biology II	4
BIOL 480	Research in Biology	3

## Zoology Electives:

Credits: 3-4

Item #	Title	credits
BIOL 443	Comparative Vertebrate Anatomy	4
GEOL 240	The Dinosaurs	4

## MATH 141 or 180

Credits: 3-4

Item #	Title	credits
MATH 141	Introduction to Probability and Statistics	3
MATH 180	Precalculus	4