

BIOLOGY (B.S.)

Students interested in the study of the biological and biomedical sciences earn a B.S. in Biology. Students complete a minimum of 120 credits to earn a bachelor's degree: 49–51 credits of core courses (<https://catalog.salve.edu/undergraduate/curriculum-degree-programs/>), 0–6 elective credits, and 74–78 credits (20 courses) in their major.

Code	Title	Credits
Major Requirements		
BIO-111	General Biology I	4
BIO-112	General Biology II	4
BIO-220	Cell Biology and Chemistry	4
BIO-253	Genetics: Classical, Molecular and Population	4
BIO-471	Biology Seminar	3
CHM-113	General Chemistry I	4
CHM-114	General Chemistry II	4
CHM-205	Organic Chemistry I	4
CHM-206	Organic Chemistry II	4
BCH-403	Biochemistry	4
STA-173	Statistical Methods	3
MTH-191	Applied Calculus	3-4
or MTH-195	Calculus I	
Select one of the following pairs of courses:		8
PHY-201 & PHY-202	General Physics I and General Physics II	
PHY-205 & PHY-206	Principles of Physics I and Principles of Physics II	
Additional Requirements		
Select one of the following options:		21-24
Six biology or biochemistry electives (21-24 credits) from the 200-level or above, at least four of which have laboratory associated with them		
Five biology or biochemistry electives (18-20 credits) from the 200-level or above, at least three of which have laboratory associated with them AND 3 or more credits of Independent Research (BIO-497)		
Total Credits		74-78

Environmental Sciences Concentration Requirements

Students wishing to pursue an environmental science concentration will satisfy the requirements for a B.S. in Biology and the courses below. The courses for the concentration satisfy the elective requirements for the Biology major. Students complete a minimum of 120 credits to earn a bachelor's degree in Biology with an Environmental Science concentration: 49–51 credits of core courses (<https://catalog.salve.edu/undergraduate/curriculum-degree-programs/>) and 78 major credits (21 courses).

Code	Title	Credits
Required Courses		
CHM-310	Environmental Chemistry	4
BIO-255	Conservation Biology	3
BIO-260	Marine Biology	4

BIO-310	Ecology	4
Electives		
Select three electives from the following: ¹		10-11
BIO-200	Botany	
BIO-210	Microbiology	
BIO-275	Tropical Biology	
BIO-320	Evolution	
BIO-390	Environmental Science Internship	
BIO-497	Undergraduate Research	
CHP-310	Introduction to Geographic Information Systems	
Total Credits		25-26

¹ At least one must have associated laboratory

The following courses are recommended:

Code	Title	Credits
CHM-305	Physical Chemistry I	4
CHM-306	Physical Chemistry II	4
CHM-309	Instrumental Analysis	4
CHM-407	Advanced Organic Chemistry	4
RTS-332	Care for Creation: Christianity, Ethics and the Environment	3
ENV-334	Environmental Justice	3
ENV-350	Natural Resource Management	3

Degree Plan for Biology (B.S.)

Course	Title	Credits
First Year		
Fall		
UNV-101 & FYT-101	University Seminar and First Year Studio	4
BIO-111	General Biology I	4
CHM-113	General Chemistry I	4
Core Course		3
Credits		15
Spring		
UNV-102	University Seminar II	3
BIO-112	General Biology II	4
CHM-114	General Chemistry II	4
MTH-191 or MTH-195	Applied Calculus or Calculus I	3-4
Credits		14-15
Second Year		
Fall		
RTS-225 or PHL-225	The Quest for the Ultimate: Dialogue with Global Religious Traditions ¹ or Quest for the Good Life	3
BIO-220 or BIO-253	Cell Biology and Chemistry ¹ or Genetics: Classical, Molecular and Population	4
CHM-205	Organic Chemistry I	4
Core Course		3
Credits		14
Spring		
RTS-225 or PHL-225	The Quest for the Ultimate: Dialogue with Global Religious Traditions ¹ or Quest for the Good Life	3
BIO-220 or BIO-253	Cell Biology and Chemistry ¹ or Genetics: Classical, Molecular and Population	4

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CHM-206	Organic Chemistry II	4
STA-173	Statistical Methods	3
Core Course		3
Credits		17
Third Year		
Fall		
BCH-403	Biochemistry	4
PHY-201 or PHY-205	General Physics I or Principles of Physics I	4
BIO or BCH Elective above 200-level		3
Core Course		3
Core Course		3
Credits		17
Spring		
PHY-202 or PHY-206	General Physics II or Principles of Physics II	4
BIO or BCH Elective above 200-level		3
BIO or BCH Elective above 200-level with Lab		4
Core Course		3
Core Course		3
Credits		17
Fourth Year		
Fall		
BIO or BCH Elective above 200-level with Lab		4
BIO or BCH Elective above 200-level with Lab		4
Core Course		3
Elective		3
Credits		14
Spring		
BIO-471	Biology Seminar	3
BIO or BCH Elective above 200-level with Lab		4
Core Course		3
Elective		3
Credits		13
Total Credits		121-122

¹ One each semester