

BIOLOGY AND SECONDARY EDUCATION (B.A.S.)

Students interested in teaching Biology at the high school level double major in Biology and Secondary Education. Students complete 41–44 credits of core courses (<https://catalog.salve.edu/undergraduate/curriculum-degree-programs/>), 50 credits of Biology major courses, and 43 credits of Secondary Education courses to earn a B.A.S. degree. See Education Department (<https://catalog.salve.edu/undergraduate/academic-programs/education/>) for requirements of the Secondary Education (B.A.S.) major.

Code	Title	Credits
BIO-113	Biology I	4
BIO-114	Biology II	4
BIO-200	Botany	4
BIO-210	Microbiology	4
BIO-220	Cell Biology and Chemistry	4
BIO-253	Genetics: Classical, Molecular and Population	4
BIO-310	Ecology	4
BIO-320	Evolution	3
BIO-471	Biology Seminar	3
Two Biology or Biochemistry electives with a lab at the 200 level or above		8
CHM-113	General Chemistry I	4
CHM-114	General Chemistry II	4
Total Credits		50

General Science Certification

Students wishing to complete the requirements for a General Science certification in addition to Biology certification must take the following:

Code	Title	Credits
Select one of the following:		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	

Degree Plan for Biology and Secondary Education (B.A.S.)

Course	Title	Credits
First Year		
Fall		
FYT-101	First Year Studio	1
UNV-101	University Seminar	3
BIO-113	Biology I	4
CHM-113	General Chemistry I	4
Select one of the following: ¹		3
EDC-120	Introduction to Race and Inequity in American Education (Fall or Spring)	
Core Course		
Credits		15
Spring		
UNV-102	University Seminar II	3
BIO-114	Biology II	4

CHM-114	General Chemistry II	4
Select one of the following: ¹		3
EDC-120	Introduction to Race and Inequity in American Education	
Core Course		
Core Course (Social Science, Art, or History Core Recommended)		3
Credits		17
Second Year		
Fall		
GST-098	Sophomore Studio ²	1
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	Cell Biology and Chemistry	4
SCD-220	Child and Adolescent Development and the Theories of Learning	3
SCD-212	Teaching Literacy in the Content Area	3
SCD-298	Secondary Field Experience in a Multicultural Society I	1
Core Course (Foreign Language I Recommended)		3
Credits		18
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-200 or BIO-253	Botany or Genetics: Classical, Molecular and Population	4
Select one of the following: ³		3
BIO-320	Evolution	
Core Course (MTH recommended)		
SED-211	Introduction to the Characteristics of Students with Exceptionalities	3
SCD-299	Secondary Field Experience in a Multicultural Society II	1
Core Course (Foreign Language II Recommended)		3
Credits		17
Third Year		
Fall		
BIO-310 or BIO-210	Ecology or Microbiology	4
SCD-320	Curriculum, Instruction and Assessment in the Secondary School I	3
SCD-321	Practicum I for Curriculum, Instruction and Assessment in the Secondary School I	1
BIO or BCH elective		3
Core Course (Philosophy or Religion Core Recommended)		3
Core Course (Social Science, Art, or History Core Recommended)		3
Credits		17
Spring		
BIO-200 or BIO-253	Botany or Genetics: Classical, Molecular and Population	4
Select one of the following: ³		3
BIO-320	Evolution	
Core Course (MTH recommended)		
SCD-323	Curriculum Instruction and Assessment In the Secondary School II	3
SCD-322	Practicum II for Curriculum, Instruction and Assessment in Secondary School II	1
SCD-310	Strategies for Teaching Secondary English Learners	2
Core Course (Philosophy or Religion Core Recommended)		3
• Content Area Exam for Praxis passed prior to end of term		
Credits		16

2 Biology and Secondary Education (B.A.S.)

Fourth Year

Fall

BIO-310 or BIO-210	Ecology or Microbiology	4
SCD-440	Practicum in Secondary Education	3
SCD-410	Classroom Management	3
BIO or BCH Elective above 200-level with Lab		4
Core Course (Social Science, Art, or History Core Recommended)		3
Credits		17
Spring		
SCD-441	Secondary Student Teaching	12
SCD-432	Student Teaching Seminar Capstone	1
BIO-471	Biology Seminar	3
Credits		16
Total Credits		133

¹ One each semester

² This weekend workshop may be taken in either the fall or spring semester of sophomore year.

³ One in spring of the second year and one in spring of the third year.