

# Biology with Secondary Science Concentration

## Major

A Secondary Science Concentration within the Biology major is intended for students who are planning to become high school biology teachers. Students completing this major are required to be double majors in Education, and actively pursue teaching licensure. See Education for details on requirements for the Education major and licensure.

A student majoring in Biology with Secondary Science Education completes 52 credit hours:

## Required Courses

Item #	Title	Credits
BI 110	Biological Investigation	4.0
BI 207	Molecular Genetics	4.0
BI 238	Ecology and Evolution	4.0

## Choose One Organismal Biology Courses from this list:

Item #	Title	Credits
BI 201	Botany	4.0
BI 206	Vertebrate Zoology	4.0
BI 318	Algae and Fungi	4.0
BI 342	Parasitology	4.0
BI 350	Entomology	4.0

## Choose One Cellular and Molecular Biology Course from this list:

Item #	Title	Credits
BI 306	Developmental Biology	4.0
BI 307	Cell and Molecular Biology	4.0
BI 310	Immunology	4.0
BI 311	Virology	4.0
BI 345	Principles of Microbiology	4.0

## Choose One Biology Systems Course from this list:

Item #	Title	Credits
BI 107	Human Biology	4.0
BI 315	Anatomy and Physiology I	4.0
BI 324	Ecological Interactions	4.0
BI 325	Tropical Ecology	4.0
BI 326	Marine Biology	4.0
BI 332	Aquatic Biology	4.0

## Required Supporting STEM courses:

Item #	Title	Credits
	<b>MA 133 Precalculus or higher</b>	<b>4.0</b>

## Precalculus or higher

CH 110	General Chemistry	4.0
CH 203	Organic Chemistry I	4.0
EV 105	Earth's Physical Systems	4.0
	<b>PY 181 or PY 201</b>	<b>4.0</b>

## General Physics I or College Physics I

PY 181	General Physics I	4.0
PY 201	College Physics I	4.0
	<b>One Additional Elective:</b>	<b>4.0</b>

## Any 200-level or higher Biology, Chemistry, or Physics course

## Capstone

In order to earn this major, a student must successfully complete [ED 434](#) during the semester of student teaching as the capstone experience. This requires admission to Student Teaching.

Item #	Title	Credits
ED 434	Teacher Professionalism	4.0

## Recommended Courses

Adolescent Psychology is highly recommended. If schedule permits, additional coursework in Biology, Chemistry, Physics, Math, or Computer Science is encouraged.

Item #	Title	Credits
PS 312	Adolescent Psychology	4.0
	<b>Total Credits</b>	<b>52</b>