

BIOLOGY

This major is 55-58 credits • *2018-2019 Catalog Year*

Revised: 08-20-18

CAREERS & POST-GRADUATE WORK

Recent Heidelberg graduates with this degree are doing ...

- QC Laboratory Technician • Biology Teacher
- Master of Biomedical Sciences • Genetic Technologist, Nationwide Children's Hospital • BSN Program, Ursuline

The Biology Department does not allow issue any grade waivers for BIO or ENS courses at the 200-, 300-, or 400-level.

MAJOR ACADEMIC PLAN (MAP): A SAMPLE 4-YEAR PLAN

This MAP is a guide for students preparing for course selections. This is a suggested schedule. Actual course selections should be made with the advice of your advising specialist or faculty advisor. For course descriptions, pre-requisites, and rotations (e.g., fall or spring only classes, classes taught in alternate years), consult the Heidelberg University Undergraduate Catalog.

FIRST-YEAR FALL

Course	Prerequisites	Hrs	Notes
HEI 101: Advise, Inspire, Mentoring Program		1	Required of all first-year students.
WRI 101: College Writing II <i>Or</i> COM 100: Oral Communication		3	Take one fall, the other spring.
BIO 123/123L: Biology I with Lab	Lecture & lab must be taken concurrently	4	
CHM 111: General Chemistry I	Placement into MTH 121 <i>or</i> C- or better in MTH 120	4	Mathematics Placement Assessment score determines placement in MTH courses and eligibility for non-MTH Quantitative Literacy (Q) courses.
General Education/Honors Support Courses		3	
Total Credits:		15	

FIRST-YEAR SPRING

Course	Prerequisites	Hrs	Notes
HEI 102: Advise, Inspire, Mentoring Program	HEI 101	0	Required of all first-year students.
BIO 124: Biology II		4	
CHM 112: Chemistry II	Passing grade in CHM 111	4	
WRI 101: College Writing II <i>Or</i> COM 100: Oral Communication		3	
MTH Elective	Placement	3	Choose from pick list on final page.
General Education/Honors Support Courses		1	
Total Credits:		15	

SECOND-YEAR FALL

Course	Prerequisites	Hrs	Notes
BIO 223: Genetics	BIO 123	4	
PHY 101: General Physics	Placement into MTH 121 or C- or higher in MTH 120.	4	Take the math prerequisite during your first year.
General Education/Honors Support Courses		7	Consider completing the Foreign Language Requirement : Students not in the Honors Program must complete a foreign language to the 102-level or equivalent. Placement is based on the Foreign Language Assessment and some students may need to begin at the 101-level.
Total Credits:		15	

SECOND-YEAR SPRING

Course	Prerequisites	Hrs	Notes
BIO 224: Cell & Molecular Biology	BIO 223	4	
PHY 102: General Physics II	C- or higher in PHY 101	4	
MTH Elective		3	Choose from pick list on final page.
General Education/Honors Support Courses		4	
Total Credits:		15	

THIRD-YEAR FALL

Course	Prerequisites	Hrs	Notes
BIO 363: Human Anatomy & Physiology I	C- or better in BIO 110/BIO 110L or BIO 123/123L	4	Effective Fall 2020, prerequisites will be: C- or better in BIO 123/BIO 123L and either CHM 111 or CHM 106; or BIO 121 and either CHM 111 or CHM 106.
BIO/ENS Elective		3	12 Semester hours in BIO or ENS must be at the 300 or higher level Choose from pick list on final page.
General Education/Honors Support Courses		8	
Total Credits:		15	

THIRD-YEAR SPRING

Course	Prerequisites	Hrs	Notes
BIO 311: Biology Seminar	Biology Major with Junior standing, COM 100, WRI 101	1	
BIO 312: Evolution	BIO 123, 124 & 223	3	
BIO/ENS Elective		3	Choose from pick list on final page.
General Education/Honors Support Courses		8	
Total Credits:		15	

FOURTH-YEAR FALL

Course	Prerequisites	Hrs	Notes
BIO Capstone		3	Choose from pick list on final page.
BIO/ENS Elective		3	
General Education/Honors Support Courses		9	
Total Credits:		15	

FOURTH-YEAR SPRING

Course	Prerequisites	Hrs	Notes
General Education/Honors Support Courses		15	
Total Credits:		15	

PROGRAM PICK LIST: MATH AND BIOLOGY / ENVIRONMENTAL SCIENCE ELECTIVES

Math Electives (choose two courses)	Biology / Environmental Science Electives 8-9 credits (except BIO 115, BIO 205, BIO 235, BIO 370 or ENS 370)	Biology Capstone Electives Choose one of the following
<ul style="list-style-type: none"> • MTH 119: Statistics I • MTH 120: Intermediate Algebra • MTH 121: Elementary Functions • MTH 219: Statistics II • MTH 222: Calculus I • BIO 205: Biostatistics 	<ul style="list-style-type: none"> • ENS 101: Introduction to Environmental Science • ENS 300: Issues in Environmental Science • BIO 318: Human Medical Genetics • BIO 325: Microbiology • BIO 329: Cancer Genetics • BIO 415: Animal Behavior • BIO 213: Field Biology • BIO 324: Water Pollution Biology • BIO 355: Ichthyology • BIO 364: Human Anatomy and Physiology II • BIO 365: Cat Dissection and Anatomy • BIO 375: Caribbean Biogeography • BIO 403: Cadaver Prosection • BIO 425, 426: Special Topics in Biology 	<ul style="list-style-type: none"> • BIO 318: Human Medical Genetics • BIO 325: Microbiology • BIO 329: Cancer Genetics • BIO 415: Animal Behavior • ENS 334: Ecology