

# EDUCATION- AYA LIFE SCIENCE

This major is 97 credits • *2018-2019 Catalog Year*  
Revised: 10-30-2018

**CAREERS & POST-GRADUATE WORK**  
Recent Heidelberg graduates with this degree are ...  
**Teaching**

## TEACHING AREA: BIOLOGY

### 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. **Students should work with a faculty member in their content area in addition to their Education faculty advisor.**

### Students must apply for admission to the Educator Preparation Program

To be admitted into the licensure program, students must have a grade of "C-" or better in EDU 110, PSY 101, EDU 200 and seminar, and EDU 220. Student must also have an ACT composite or super score of 21 or higher or SAT score or 1000 or higher. Students must also register to take the OAE: APK test. Students must also have a **minimum GPA of 3.0** and current FBI and BCI background checks. Students will not be permitted to register for or take education courses above the 300 level until they are accepted into the program.

## 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		3	
EDU 110: Vital Connections		2	Ohio law requires that all persons working in schools with students must complete both an Ohio criminal background check and an FBI criminal background check, conducted by the Bureau of Criminal Identification Investigation (BCII). This includes all education majors who are registered for any course with a field experience component.
BIO 123: Biology + BIO 123 Lab		4	
MTH 119: Statistics I	Placement into MTH 114 or higher	3	<b>Mathematics Placement Assessment</b> score determines placement in MTH courses and eligibility for non-MTH Quantitative Literacy (Q) courses. <b>MTH 121 or a C- or better in MTH 120 is the pre-requisite for CHM 111; Work with a faculty member in the content area regarding math course sequences.</b>
General Education/Honors Courses/ Content Courses		2	
Total Credits:		<b>15</b>	

## FIRST-YEAR SPRING

Course	Prerequisites	Hrs	Notes
HEI 102: Advise, Inspire, Mentoring Program	HEI 101	0	Required of all first-year students.
COM 100: Public Speaking & Engagement		3	
PSY 101: General Psychology		3	
BIO 124: Biology II	BIO 123	4	
MTH Elective		3	Work with your content area advisor for math elective and pre-requisites for science courses.
General Education/Honors Courses/ Content Courses		2	
		Total Credits:	<b>15</b>

## SECOND-YEAR FALL

Course	Prerequisites	Hrs	Notes
EDU 200: Growth & Development	2.5 GPA; C- or higher in EDU 110 and PSY 101	3	EDU 200 must be taken with EDU 208
EDU 208: Growth & Development Seminar AYA		1	
EIS 271: Individuals with Exceptionalities		3	
CHM 111: General Chemistry I	Placement into MTH 121 or C- or higher in MTH 120	4	
PHY 101: General Physics I	Placement into MTH 121 or C- or higher in MTH 120	4	
		Total Credits:	<b>15</b>

## SECOND-YEAR SPRING

Course	Prerequisites	Hrs	Notes
EDU 220: Principles of Teaching	2.75 GPA; C- or higher in EDU 200, PSY 101	3	<b>Apply for Admission to Educator Preparation Program.</b> Students enrolled in EDU 220 should register to take the state mandated pedagogy assessment prior to the end of the course.
EDU 228: Principles of Teaching Seminar		1	
EIS 267: Diversity Experience	2.75 GPA, C- or higher in EDU 110, PSY 101	0	Requires Instructor Approval
Biology Elective		4	See pick list on final page
PHY 102: General Physics II	PHY 101	4	
CHM 112: General Chemistry II	Passing grade in CHM 111	4	
		Total Credits:	<b>16</b>

### THIRD-YEAR FALL

Course	Prerequisites	Hrs	Notes
BIO 363: Human Anatomy & Physiology I	Junior/Senior Standing, BIO 110 and 110L or BIO 123 and 123L	4	
GEO 101/101L: Physical Geology + Lab		4	
BIO 213: Field Biology	BIO 123 & 124	4	
BIO 223: Genetics	BIO 123	4	
Total Credits:		<b>15</b>	

### THIRD-YEAR SPRING

Course	Prerequisites	Hrs	Notes
EDU 350: Reading to Learn in Content Area	3.0 GPA; C- or higher in COM 100, EDU 220, PSY 101, WRI 101	3	Must take concurrently with EDU 396
EDU 396: Methods in Science		3	
BIO 312: Evolution	BIO 123, 124, and 223	3	
BIO 224: Cell & Molecular Biology	BIO 223	4	
General Education/Honors Support Courses		6	Consider completing the <b>Foreign Language Requirement</b> : 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:		<b>15</b>	

### FOURTH-YEAR FALL

Course	Prerequisites	Hrs	Notes
BIO 311: Biology Seminar	Junior or Senior standing; COM 100, WRI 101	1	
Biology Elective		4	See pick list on final page
General Education/Honors Courses/Content Course		10	
Total Credits:		<b>15</b>	

## FOURTH-YEAR SPRING

Course	Prerequisites	Hrs	Notes
EDU 400: Curriculum & Organization of Schools	3.0 GPA, C- or better in PSY 101, EDU 350, EDU 396 Senior level only	2	Must be taken concurrently with EDU 428
EDU 416: Seminar in Education		2	Must be taken concurrently with EDU 428
EDU 428: Student Teaching in AYA		8	Earn state passing scores on all state mandated tests required for their licensure area. (Check with Education department on which tests you need to pass).
EIS 380: Principles of Assessment	3.0 GPA, C- or higher in PSY101, EDU 220, and EDU 350, EDU 386	2	Must be taken concurrently with EDU 416 and 428
EIS 468: Communication & Collaboration	3.0 GPA, and C- or higher in PSY 101, EDU 350, EDU396	2	
<b>Total Credits:</b>		<b>16</b>	

**ELECTIVE PICK LIST:  
CHOOSE 6 ADDITIONAL HOURS  
CHOOSE OPTION 1 OR OPTION 2**

Option 1	Option 2
<p><b>6 additional hours</b></p> <ul style="list-style-type: none"> <li>BIO 318: Human Medical Genetics</li> <li>BIO 325: Microbiology</li> <li>ENS 334: Ecology</li> </ul>	<p><b>3 credits and 1 class in</b></p> <ul style="list-style-type: none"> <li>BIO 318: Human Medical Genetics OR</li> <li>BIO 325: Microbiology OR</li> <li>ENS 334: Ecology</li> </ul> <p style="text-align: center;"><b>AND</b></p> <p><b>3 credits and 1 class in</b></p> <ul style="list-style-type: none"> <li>ENS 101: Introduction to Environmental Science OR</li> <li>BIO 390, 391: Independent Research OR</li> <li>BIO 425, 426: Special Topics in Biology</li> </ul>

## INTERVENTION SPECIALIST

**THE INTERVENTION SPECIALIST LICENSE MAY BE ADDED TO ANOTHER LICENSE. THE ISP LICENSE PREPARES TEACHERS TO WORK WITH CHILDREN WITH MILD/MODERATE DISABILITIES. CANDIDATES ARE REQUIRED TO TAKE THE FOLLOWING COURSES (26 SEMESTER HOURS) AND PASS SPECIFIC OAE ASSESSMENTS IN ORDER TO APPLY FOR THIS LICENSE.**

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| <ul style="list-style-type: none"><li>• EDU 230: Foundations of Reading</li><li>• EDU 344 (early) or EDU 347 (multi-age) or EDU 350 (middle and AYA)</li><li>• EDU 414: Diagnosis of Reading Difficulties</li></ul> | <ul style="list-style-type: none"><li>• EIS 273: Applied Behavior Analysis for Teachers</li><li>• EIS 285: Phonics/Word Identification</li><li>• EIS 350: Curriculum and Methods for Mild/Moderate Disabilities</li><li>• EIS 361: Reading &amp; Language Arts for Mild/Moderate Disabilities</li><li>• EIS 379: Prescriptive Assessment and Diagnosis</li><li>• EIS 471: Career/Vocational Development &amp; Life Skills</li></ul> | <p>Four Credits in EDU 429: Student Teaching</p> <p>Four additional hours from</p> <ul style="list-style-type: none"><li>• EDU 426: Student Teaching Early Childhood</li><li>• EDU 427: Student Teaching Middle Childhood</li><li>• EDU 428: Student Teaching Adult/AYA</li><li>• EDU 430: Student Teaching Multi-Age</li></ul> |
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