

## BS Biology - PA Curriculum Plan

12 credits in the major and 9 credits in the minor must be completed at Alvernia University  
When pursuing a double major, you must have 12 distinct credits between the two majors.

Semester 1	Credits	Semester 2	Credits
<b>Diversity graduation requirement cannot be fulfilled through major courses; students should fulfill this with a Gen Ed class</b>			
SRH 101: Search Sem-Enduring Questions or HNR 160: Honor Search-Enduring Questions	3	BIO 104: Principles of Biology II w/ lab	4
Gen Ed (COM 101: Composition & Research recommended)	3	CHE 105: General Chemistry II	3
BIO 103: Principles of Biology w/ lab	4	CHE 111: General Chemistry Lab II	1
CHE 104: General Chemistry I	3	MAT 230: Calculus I	4
CHE 110: General Chemistry Lab I	1	THE 105 or PHI 105	3
CHE 107: Laboratory Safety	1	Gen Ed (PSY 101 recommended)	3
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>18</b>
Semester 3	Credits	Semester 4	Credits
CHE 201: Organic Chemistry I	3	BIO 108: Human A&P II	3
CHE 210: Organic Chemistry Lab I	1	BIO 118: Human A&P II Lab	3
BIO 107: Human A&P I	3	BIO 221: General Microbiology w/lab	4"
BIO 117: Human A&P I Lab	1	CHE 202: Organic Chemistry II	3"
PHI 105 or THE 105	3	CHE 211: Organic Chemistry Lab II	1"
MAT 209: Probability and Statistics	3	Gen Ed	3"
MAT 220: Math/Statistics Computer Lab	1	Gen Ed	3
Gen Ed	3		
<b>TOTAL</b>	<b>18</b>	<b>TOTAL</b>	<b>18</b>
Semester 5	Credits	Semester 6	Credits
BIO 303: Genetics	3	BIO 304: Cell Biology	3
BIO 309: Genetics Lab	1	BIO 311: Cell Biology Lab	1
PHY 200: Physics I w/lab	4	PHY 201: Physics II w/lab	4"
DKQ 542: Geology I	4"	Gen Ed SEARCH	3
Gen Ed	3"	Gen Ed SEARCH	3
Gen Ed	3	Gen Ed SEARCH	3
<b>TOTAL</b>	<b>18</b>	<b>TOTAL</b>	<b>17</b>
Semester 7	Credits	Semester 8	Credits
PA 505: Fundamentals of Disease States	5	PA 535: Fundamentals of Eyes, Ears, nose, Mouth, Neck and Throat	4
PA 510: Professional Practice I	2	PA 540: Fundamentals of Pulmonology	5
PA 515: Professional Practice II	1	PA 545: Fundamentals of the Cardiovascular System	5
PA 520: Fundamentals of Dermatology	4	PA 550: Fundamentals of Gastroenterology and Nutrition	4
PA 525: Fundamentals of Hematology	3	PA 555: Fundamentals of Endocrinology	3
PA 530: Fundamentals of Neurology	4	PA 560: Professional Practice III	2
<b>TOTAL</b>	<b>19</b>	<b>TOTAL</b>	<b>23</b>

### Academic Policy on Eligibility for Participation of May Commencement Ceremony

*The academic policy, which the Registrar follows, is: A student who has 6 or less credits remaining to complete the degree may participate in the May Commencement Ceremony. The Graduation Application is available online in myAlvernia on the 'Academics' tab. Seniors must submit the Graduation Application to the Registrar's Office as follows: October 1 for May Graduation; December 1 for August graduation; and March 1 for December graduation.*

*If you have any questions, please call the Registrar's Office (610.796.8201)*

## Curriculum Sheets, EAB Navigate, and AUAdvise

The information on this page and the Curriculum Sheet is provided in AUAdvise - EAB Navigate as a static tool for discussion purposes when meeting with students to schedule courses. [Degree Audit uAchieve](#) remains the official source for each student's curriculum audit. Degree Audit uAchieve must be used together with the Curriculum Sheet to determine whether the information noted during scheduling meetings on the curriculum sheet remains accurate.

### General Notes

- A minimum of 123 credits are required for graduation.
- Where appropriate, courses required for the major can be used to satisfy General Education requirements. However, the credits earned for these courses are applied to either Gen Ed requirements or the major, not both.
- Paths of Knowledge coursework may count towards major or minor requirements, but may not fulfill a second MidLevel Liberal Arts Exploration requirement.
- Students are expected to follow the catalog requirements for General Education, the major, and additional requirements.
- A minor or second major within the areas listed under Paths of Knowledge automatically fulfills that area of the Gen Ed requirements.
- Students must complete 45 of their last 60 credits at Alvernia University
- Students must complete community service hours as part of the General Education Program.

# Degree/Major: BS BIOLOGY

Name: \_\_\_\_\_ Id: \_\_\_\_\_

2<sup>nd</sup> Major: \_\_\_\_\_ 3<sup>rd</sup> Major: \_\_\_\_\_ Minor: \_\_\_\_\_ 2<sup>nd</sup> Minor: \_\_\_\_\_

Matriculation Year 2023-2024 - Term: \_\_\_\_\_

## GENERAL EDUCATION

GradeNotes:

### Enduring Questions (12 cr)

/\_/ SEARCH Sem. Enduring Questions (3) \_\_\_\_\_  
/\_/ THE 105 Foundations of Theology (3) \_\_\_\_\_  
/\_/ PHI 105 Introduction to Philosophy (3) \_\_\_\_\_  
/\_/ COM 101 Composition & Research (3) \_\_\_\_\_  
(C grade or better)

### Exploring the Natural World (6-8)

MAT Met in Related Area (x) \_\_\_\_\_  
(not MAT 100)  
 Met in Related Area (x) \_\_\_\_\_  
(Science with Lab)

### Culture & Language (9 cr)

/\_/ COM \_\_\_\_\_ (3) \_\_\_\_\_  
(not COM 100 or 101)  
World Language – 2 courses in sequence  
/\_/ \_\_\_\_\_ (3) \_\_\_\_\_  
/\_/ \_\_\_\_\_ (3) \_\_\_\_\_

### Individuals & Communities (6 cr)

/\_/ HIS or POS \_\_\_\_\_ (3) \_\_\_\_\_  
/\_/ \_\_\_\_\_ (3) \_\_\_\_\_  
(PSY, HIS, POS, SOC, SSC, or ECON)

### Creative Expressions (6 cr)

/\_/ LIT \_\_\_\_\_ (3) \_\_\_\_\_  
/\_/ \_\_\_\_\_ (3) \_\_\_\_\_  
(Art, Music, or Theatre)

### Ethical Leaders & Followers (6 cr)

/\_/ THE/PHI \_\_\_\_\_ (3) \_\_\_\_\_  
(200-400 level)  
/\_/ THE/PHI \_\_\_\_\_ (3) \_\_\_\_\_  
(ethics/morality @ 200 level)

### Paths of Knowledge (9 cr @ 200-400 level in ONE path)

Met in Related Requirements (x) \_\_\_\_\_  
 Met in Related Requirements (x) \_\_\_\_\_  
 Met in Related Requirements (x) \_\_\_\_\_

Human Diversity: \_\_\_\_\_  
 Senior Capstone: will be met with SCI 406/407  
 Writing Enhanced Course: will be met with CHE 211   
Community Service Hours: Required: \_\_\_\_\_ Met: \_\_\_\_\_  
 Overall GPA >= 2.00  
 GPA in Major >= 2.00

### Residency Requirements:

45 of last 60 credits  
 Min 12 Alvernia credits in major  
 Min 9 Alvernia credits in minor (if applicable)   
Min 123 non-remedial credits earned

## BIOLOGY (79-88 cr)

### Major (32 cr)

/\_/ BIO 103 Principles of Biology I (4) \_\_\_\_\_  
/\_/ BIO 104 Principles of Biology II (4) \_\_\_\_\_  
/\_/ BIO 221 General Microbiology (4) \_\_\_\_\_  
/\_/ BIO 303 Genetics (3) \_\_\_\_\_  
/\_/ BIO 304 Cell Biology (3) \_\_\_\_\_  
/\_/ BIO 309 Genetics Lab (1) \_\_\_\_\_  
/\_/ BIO 311 Cell Biology Lab (1) \_\_\_\_\_  
/\_/ BIO 320 Ecology (4) \_\_\_\_\_  
/\_/ SCI 402 Seminar (2) \_\_\_\_\_

Select:

/\_/ SCI 480 Internship ( ) \_\_\_\_\_  
/\_/ SCI 480 Internship ( ) \_\_\_\_\_  
(must complete a total of 6 credits)

OR

/\_/ SCI 406 Research I (3) \_\_\_\_\_  
/\_/ SCI 407 Research II (3) \_\_\_\_\_

### Major Electives (14-20 cr)

Choose 14-20 cr from: (BIO 115/116) or (BIO 107/117 & 108/118), 200, 203, 205, 208, 211, 216, 315, 324, 401, 405, 409, 410, 430; CHE 401/410

/\_/ \_\_\_\_\_ ( ) \_\_\_\_\_  
/\_/ \_\_\_\_\_ ( ) \_\_\_\_\_  
/\_/ \_\_\_\_\_ ( ) \_\_\_\_\_  
/\_/ \_\_\_\_\_ ( ) \_\_\_\_\_  
/\_/ \_\_\_\_\_ ( ) \_\_\_\_\_  
/\_/ \_\_\_\_\_ ( ) \_\_\_\_\_

### Related Requirements (33 cr)

/\_/ CHE 104 General Chemistry I (3) \_\_\_\_\_  
/\_/ CHE 105 General Chemistry II (3) \_\_\_\_\_  
/\_/ CHE 107 Laboratory Safety (1) \_\_\_\_\_  
/\_/ CHE 110 General Chemistry Lab I (1) \_\_\_\_\_  
/\_/ CHE 111 General Chemistry Lab II (1) \_\_\_\_\_  
/\_/ CHE 201 Organic Chemistry I (3) \_\_\_\_\_  
/\_/ CHE 202 Organic Chemistry II (3) \_\_\_\_\_  
/\_/ CHE 210 Organic Chemistry Lab I (1) \_\_\_\_\_  
/\_/ CHE 211 Organic Chemistry Lab II (1) \_\_\_\_\_  
/\_/ MAT 209 Probability & Statistics (3) \_\_\_\_\_  
/\_/ MAT 220 Mat Comp/Statistics Lab (1) \_\_\_\_\_  
/\_/ MAT 230 Calculus I (4) \_\_\_\_\_  
/\_/ PHY 200 Physics I (4) \_\_\_\_\_  
/\_/ PHY 201 Physics II (4) \_\_\_\_\_

### Recommended:

/\_/ MAT 131 Pre-Calculus (3) \_\_\_\_\_

### ELECTIVES (as needed)

/\_/ \_\_\_\_\_ ( ) \_\_\_\_\_  
/\_/ \_\_\_\_\_ ( ) \_\_\_\_\_  
/\_/ \_\_\_\_\_ ( ) \_\_\_\_\_