

# BIOLOGY, B.S. (BERKS)

**Begin Campus:** Any Penn State Campus

**End Campus:** Berks

## Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2024-25 academic year. To access previous years' suggested academic plans, please visit the archive (<https://bulletins.psu.edu/undergraduate/archive/>) to view the appropriate Undergraduate Bulletin edition.

### General Biology Option: Biology, B.S. at Berks Campus

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

#### First Year

Fall	Credits Spring	Credits
ENGL 15 or 30H (GWS) <sup>†</sup>	3 CAS 100A or 100B (GWS) <sup>†</sup>	3
MATH 140 or 140B (GQ) <sup>†#</sup>	4 MATH 141 or 141B (GQ) <sup>†</sup>	4
BIOL 110 <sup>*#</sup>	4 BIOL 240W <sup>*#</sup>	4
CHEM 110 (GN) <sup>*#†</sup>	3 CHEM 112 (GN) <sup>*†</sup>	3
CHEM 111 (GN) <sup>†</sup>	1 CHEM 113 (GN) <sup>†</sup>	1
First-Year Seminar	1 General Education Course (GHW)	1.5
	<b>16</b>	<b>16.5</b>

#### Second Year

Fall	Credits Spring	Credits
BIOL 220W <sup>*#</sup>	4 ENGL 202C (GWS) <sup>†</sup>	3
BIOL 230W <sup>*#</sup>	4 CHEM 203 or 212 <b>and</b> 213	3-5
CHEM 202 or 210	3 STAT 200 or 250	3-4
General Education Course (GA or GH or GS)	3 Department List Selection	3
General Education Course (GA or GH or GS)	3 General Education Course (GA or GH or GS)	3
	<b>17</b>	<b>15-18</b>

#### Third Year

Fall	Credits Spring	Credits
PHYS 250 <sup>†</sup>	4 PHYS 251	4
400 Level BIOL Selection - Group 2: Evolutionary Biology	3 400 Level BIOL Selection - Group 1: Plants and Fungi Biology	3
Department List Selection	3 400 Level BIOL Selection - Group 3: Genetics and Development	3
Department List Selection	3 Department List Selection	3
General Education Course (Integrative Studies)	3 General Education Course (Integrative Studies)	3
	<b>16</b>	<b>16</b>

#### Fourth Year

Fall	Credits Spring	Credits
400 Level BIOL Selection - Group 4: Ecology	3 400 Level BIOL Selection - Group 6: Practicum	3
400 Level BIOL Selection - Group 5: Animal Physiology	3 Department List Selection	3
Department List Selection	3 Department List Selection	3
Department List Selection	3 Department List Selection	3
General Education Course (Exploration)	3 General Education Course (GHW)	1.5
	<b>15</b>	<b>13.5</b>

#### Total Credits 125-128

\* Course requires a grade of C or better for the major

‡ Course requires a grade of C or better for General Education

# Course is an Entrance to Major requirement

† Course satisfies General Education and degree requirement

<sup>1</sup> For General Education Course notations, please be sure to include three (3) credits of United States (US) Cultures and three (3) credits of International (IL) Cultures. Consult adviser for details.

<sup>2</sup> The following courses fulfill the Writing Across The Curriculum requirement: BIOL 220W, BIOL 230W, and BIOL 240W. Students must complete all three (3) courses to fulfill this requirement.

<sup>3</sup> The following courses are offered Fall Semester only: BIOL 220W, BIOL 230W, CHEM 202, CHEM 210, PHYS 250.

<sup>4</sup> The following courses are offered Spring Semester only: BIOL 240W, CHEM 203, CHEM 212, CHEM 213, PHYS 251.

<sup>5</sup> Students must complete one (1) of the following courses to satisfy Entrance-to-Major requirements: BIOL 220W, BIOL 230W, or BIOL 240W.

<sup>6</sup> For PHYS 250 and PHYS 251, the following course sequence may be substituted: PHYS 211, PHYS 212, PHYS 213, PHYS 214. PHYS 213 and PHYS 214 are offered Spring Semester only.

#### University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy Cultural Diversity Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

## Genetics & Developmental Biology Option: Biology, B.S. at Berks Campus

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

### First Year

Fall	Credits Spring	Credits
ENGL 15 or 30H (GWS) <sup>†</sup>	3 CAS 100A or 100B (GWS) <sup>†</sup>	3
MATH 140 or 140B (GQ) <sup>†‡#</sup>	4 MATH 141 or 141B (GQ) <sup>†</sup>	4
BIOL 110 <sup>*#</sup>	4 BIOL 240W <sup>*#</sup>	4
CHEM 110 (GN) <sup>*#†</sup>	3 CHEM 112 (GN) <sup>*†</sup>	3
CHEM 111 (GN) <sup>†</sup>	1 CHEM 113 (GN) <sup>†</sup>	1
First-Year Seminar	1 General Education Course (GHW)	1.5
	<b>16</b>	<b>16.5</b>

### Second Year

Fall	Credits Spring	Credits
BIOL 220W <sup>*#</sup>	4 ENGL 202C (GWS) <sup>†</sup>	3
BIOL 230W <sup>*#</sup>	4 MICRB 201	3
CHEM 210	3 CHEM 212	3
STAT 250	3 CHEM 213	2
General Education Course (GA or GH or GS)	3 General Education Course (GA or GH or GS)	3
	<b>17</b>	<b>14</b>

### Third Year

Fall	Credits Spring	Credits
PHYS 211 or 250 <sup>†</sup>	4 PHYS 212 or 251	4
BMB 401	3 BMB 402	3
400 Level BIOL Selection - Group 1: Genetics/Developmental Biology	3 400 Level BIOL Selection - Group 2: Evolutionary Biology	3
BIOL 322	3 Department List Selection	3
General Education Course (GA or GH or GS)	3 Department List Selection	3
	<b>16</b>	<b>16</b>

### Fourth Year

Fall	Credits Spring	Credits
BIOL 430	3 400 Level BIOL Selection - Group 3: Practicum	3
400 Level BIOL Selection - Group 1: Genetics and Developmental Biology	3 Department List Selection	3
PHYS 213 (or Elective)	2 Department List Selection	3
PHYS 214 (or Elective)	2 General Education Course (Integrative Studies)	3
Department List Selection	3 General Education Course (GHW)	1.5
General Education Course (Integrative Studies)	3	

General Education Course (Exploration)	3	
	<b>19</b>	<b>13.5</b>

### Total Credits 128

- \* Course requires a grade of C or better for the major
- ‡ Course requires a grade of C or better for General Education
- # Course is an Entrance to Major requirement
- † Course satisfies General Education and degree requirement

- <sup>1</sup> For General Education Course notations, please be sure to include three (3) credits of United States (US) Cultures and three (3) credits of International (IL) Cultures. Consult adviser for details.
- <sup>2</sup> The following courses fulfill the Writing Across The Curriculum requirement: BIOL 220W, BIOL 230W, and BIOL 240W. Students must complete all three (3) courses to fulfill this requirement.
- <sup>3</sup> The following courses are offered Fall Semester only: BIOL 220W, BIOL 230W, BIOL 322, BIOL 430, BMB 401, CHEM 210, PHYS 250.
- <sup>4</sup> The following courses are offered Spring Semester only: BIOL 240W, BMB 402, CHEM 212, CHEM 213, PHYS 251.
- <sup>5</sup> Students must complete one (1) of the following courses to satisfy Entrance-to-Major requirements: BIOL 220W, BIOL 230W, or BIOL 240W.
- <sup>6</sup> Students should take PHYS 213 and PHYS 214 only if they completed PHYS 211 and PHYS 212. Consult adviser for details.

### University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy Cultural Diversity Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.