

BIOLOGY (BA)

Exploration and Discovery

The BA program in Biology is a broad overview of the principles of biology and the functions of biological systems with supportive courses in mathematics, physics, and chemistry. It can be used to fulfill the goals of students primarily interested in biology or those who plan to go on to professional programs or graduate degrees in the biological sciences. For the latter case, it should be noted that some professional/graduate schools require a full year each of organic chemistry, physics, and calculus; this program is less restrictive. Thus, students should work closely with their academic advisor to plan their coursework.

Degree Requirements

Course	Title	Credits
Major Requirements		
BI 1110	Biological Science I (TECO)	4
BI 1120	Biological Science II	4
BI 3060	Genetics	4
BI 3130	Evolution	4
BI 3240	Conservation (DICO,GACO,INCO)	3
BI 4970	Biology Seminar	1
Complete 16 credits of Biology from the following: ¹		16
BI	2000 level Biology electives (not BIDI)	
BI	3000/4000 level Biology electives (not BIDI)	
CH 1050	Laboratory Safety	1
CH 2335	General Chemistry I (QRCO)	4
CH 2340	General Chemistry II	4
Writing in the Discipline Connection		
BI	3000/4000 level Biology elective (not BIDI)	4
Physical Science Group		
Complete one course from the following:		4
CH 3370	Organic Chemistry I	
PH 2130	Physics I	
PH 2410 & PH 2430	University Physics I and University Physics Laboratory I	
Mathematics Foundations		
Complete one course from the following:		4
MA 2140	Precalculus (QRCO,TECO)	
MA 2490	Applied Calculus I (QRCO)	
MA 2550	Calculus I (QRCO)	
General Education (https://coursecatalog.plymouth.edu/general-education)		
EN 1400	Composition	4
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
CTDI	Creative Thought Direction	3-4
PPDI	Past and Present Direction	3-4
SSDI	Self and Society Direction	3-4
Directions (choose from CTDI, PPDI, SSDI) ²		4-8
WECO	Wellness Connection	3-4
GACO	Foreign Language ³	6

Electives	30
Total Credits	120

- ¹ 16 credits of Biology are required; no more than 8 credits at the 2000 level may apply.
- ² Directions should total 16-17 credits because SIDI is waived for BA Biology.
- ³ The foreign language requirement for all BA degrees calls for 0-6 credits: one year of one language (6 credits); or one 3000/4000 level world language course (3 credits); or being a native speaker of a language other than English (zero credit). American Sign Language I and II fulfill this requirement; however, American Sign Language does not satisfy the Global Awareness Connection.

Recommended Course Sequence

Check all course descriptions for prerequisites before planning course schedule. Course sequence is suggested but not required.

Course	Title	Credits
Year One		
EN 1400	Composition	4
IS 1111	The First Year Seminar: Critical Thinking and the Nature of Inquiry	3
Complete one Mathematics Foundations Course from the following:		4
MA 2140	Precalculus (QRCO,TECO)	
MA 2490	Applied Calculus I (QRCO)	
MA 2550	Calculus I (QRCO)	
BI 1110	Biological Science I (TECO)	4
BI 1120	Biological Science II	4
CH 1050	Laboratory Safety	1
CH 2335	General Chemistry I (QRCO) ¹	4
CH 2340	General Chemistry II ¹	4
CTDI (https://coursecatalog.plymouth.edu/general-education/#CTDI)	Creative Thought Direction	3-4
	Credits	31-32
Year Two		
Complete one Biology Elective from the following:		4
BI	2000 level Biology elective (not BIDI)	
BI	3000/4000 level Biology elective (not BIDI)	
Complete one Physical Science Group Course from the following:		4
CH 3370	Organic Chemistry I	
PH 2130	Physics I	
PH 2410 & PH 2430	University Physics I and University Physics Laboratory I	
PPDI (https://coursecatalog.plymouth.edu/general-education/#PPDI)	Past and Present Direction	3-4
SSDI (https://coursecatalog.plymouth.edu/general-education/#SSDI)	Self and Society Direction	3-4

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Directions (choose from CTDI, PPDI, SSDI) (<https://coursecatalog.plymouth.edu/general-education>)² 4-8

GACO (https://coursecatalog.plymouth.edu/general-education/#GACO)	Foreign Language	6
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Elective		2-4
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Credits	26-34
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Year Three

Complete one Biology Elective from the following:	4
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BI	2000 level Biology elective (not BIDI)	
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BI	3000/4000 level Biology electives (not BIDI)	
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BI 3060	Genetics	4
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BI 3240	Conservation (DICO,GACO,INCO)	3
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Electives		11
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Credits	22
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Year Four

BI 3130	Evolution	4
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BI 4970	Biology Seminar	1
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BI	3000/4000 level Biology electives (not BIDI)	8
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BI	3000/4000 level Biology Writing in the Discipline Connections (not BIDI)	4
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WECO (https://coursecatalog.plymouth.edu/general-education/#WECO)	Wellness Connection	3-4
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Electives		15-17
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Credits	35-38
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Total Credits	120
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¹ General Chemistry should only be taken in the first year if the student has suitable math skills.

² Directions should total 16-17 credits because SIDI is waived for BA Biology.