

BIOLOGY BACHELOR OF ARTS DEGREE

Code	Title	Credits
General Education Requirements (https://catalog.msubillings.edu/undergraduate/general-education-requirements)		31
Students should consult with an academic advisor before registering for General Education courses in order to minimize the number of courses needed to satisfy the requirements of the major. ¹		
Note : 10 credits will be filled with requirements below, leaving 21 credits needed in General Education.		
Biology Requirements		
BIOB 160	Principles of Living Systems *	3
BIOB 161	Principles Living Systems Lab *	1
BIOB 170	Principles of Bio Diversity	3
BIOB 171	Principles Bio Diversity Lab	1
BIOB 260	Cellular & Molecular Biology	3
BIOB 261	Cellular & Molecular Biol Lab	1
BIOB 375	General Genetics	3
BIOB 376	General Genetics Lab	1
BIOB 490	Undergraduate Research	2
BIOB 499	Senior Thesis/Capstone	1
Upper Division Science Electives		16
Selected in consultation with advisor from the following rubrics: BCH, BIOB, BIOE, BIOH, BIOM, BIOO, CHMY, EARTH, GEO, GPHY, PHSX		
Subtotal		35
Chemistry Requirements		
CHMY 141	College Chemistry I *	3
CHMY 142	College Chemistry I Lab *	1
CHMY 143	College Chemistry II	3
CHMY 144	College Chemistry II Lab	1
CHMY 211	Elements of Organic Chemistry	3
CHMY 212	Elements of Organic Chem Lab	1
BCH 380	Biochemistry	3
BCH 381	Biochemistry Lab	1
Subtotal		16
Mathematics/Statistics Requirement		
Select one of the following:		4
M 171	Calculus I *	
STAT 216	Introduction to Statistics *	
Subtotal		4
Language Requirement (https://catalog.msubillings.edu/undergraduate/college-arts-sciences)		8
Minor		v 21
Electives		v 15
The total number of elective credits required for the degree will be determined by the number of courses a student elects to take which fulfill both the General Education requirements and the major requirements. Electives should be chosen in consultation with an academic advisor.		
Total Minimum Credits		120

¹ The following General Education courses also satisfy requirements in the major: BIOB 160, BIOB 161, CHMY 141, M 171, and STAT 216. Students should consult with an academic advisor before registering for General Education courses in order to minimize the number of courses needed to satisfy the requirements of the major

* May satisfy General Education requirements

Certain courses in this program have prerequisites; students should check the course descriptions for required prerequisites.

Suggested Plan of Study

Code	Title	Credits
First Year		
Fall		
BIOB 160 & BIOB 161	Principles of Living Systems and Principles Living Systems Lab	4
CHMY 141 & CHMY 142	College Chemistry I and College Chemistry I Lab	4
Math requirement		4
General Education		v
Elective/Minor		v
Total		Varies
Spring		
BIOB 170 & BIOB 171	Principles of Bio Diversity and Principles Bio Diversity Lab	4
CHMY 143 & CHMY 144	College Chemistry II and College Chemistry II Lab	4
General Education		v
Elective/Minor		v
Total		Varies
Second Year		
Fall		
BIOB 260 & BIOB 261	Cellular & Molecular Biology and Cellular & Molecular Biol Lab	4
Language requirement		4
General Education		v
Elective/Minor		v
Total		Varies
Spring		
BIOB 375 & BIOB 376	General Genetics and General Genetics Lab	4
CHMY 211 & CHMY 212	Elements of Organic Chemistry and Elements of Organic Chem Lab	4
Language requirement		4
General Education		v
Elective/Minor		v
Total		Varies
Third Year		
Fall		
BCH 380 & BCH 381	Biochemistry and Biochemistry Lab	4
Science Electives		4
General Education		v
Elective/Minor		v
Total		Varies

Spring		
Science Electives		4
General Education		v
Elective/Minor		v
Total		Varies
Fourth Year		
Fall		
BIOB 490	Undergraduate Research	1
Science Electives		4
General Education		v
Elective/Minor		v
Total		Varies
Spring		
BIOB 490	Undergraduate Research	1
BIOB 499	Senior Thesis/Capstone	1
Science Electives		4
General Education		v
Elective/Minor		v
Total		Varies