



Four-Year Degree Plan: Bachelor of Science in Biology

Catalog Year: 2023-2024

**COLLEGE OF
LETTERS,
ARTS AND
SCIENCES**

This is a degree plan for completing a Bachelor of Science in Biology in eight semesters. This document is meant to be used as a guide for planning purposes only and is intended for use in consultation with a Professional Academic or Faculty advisor. **Students are responsible for consulting advisors and the [MSU Denver catalog](#) for degree requirements.**

Year One					
Semester 1			Semester 2		
Fall		Credits	Spring		Credits
ENG 1010	Composing Arguments	3	ENG 1020	Freshman Composition	3
MTH 1XXX	Quant Lit 1110 or 1111 or 1112	4	BIO 1081	General Biology II	3
XXXX	Oral Comm General Studies	3	BIO 1091	General Biology II Laboratory	1
BIO 1080	General Biology I	3	CHE 1800	General Chemistry I	4
BIO 1090	General Biology I Laboratory	1	CHE 1801	General Chemistry I Laboratory	1
			XXXX	General Studies	3
Semester 1 Total		14	Semester 2 Total		15

Year Two					
Semester 3			Semester 4		
Fall		Credits	Spring		Credits
BIO XXXX	Bio Pick One Option (Pick One)	4-5	XXXX	General Studies	3
BIO 3520	General Ecology	3	BIO XXXX	BIO Electives (Consult with Advisor)	3-5
CHE 1810	General Chemistry II	4	CHE 3100	Organic Chemistry I	4
CHE 1811	General Chemistry II Laboratory	1	CHE 3120	Organic Chemistry I Laboratory	1
XXXX	General Studies	3	MTH XXXX	Math #2	4
Semester 3 Total		15-16	Semester 4 Total		15-17

Year Three					
Semester 5			Semester 6		
Fall		Credits	Spring		Credits
XXXX	General Studies	3	BIO XXXX	BIO Elective (Consult Advisor)	3-5
BIO 36XX	Gen I Genetics or Princ of Gen	4	XXXX	General Studies	3
CHE 3110	Organic Chemistry II	3	XXXX	General Studies, Minor and/or BIO Elective Requirements	9
XXXX	Minor and/or Elective Requirements	5	Semester 6 Total		15-17
Semester 5 Total		15	Semester 6 Total		15-17

Year Four					
Semester 7			Semester 8		
Fall		Credits	Spring		Credits
BIO XXXX	BIO Elective (Consult Advisor)	3-5	BIO XXXX	Bio Electives (Consult Advisor to reach total 40 BIO crs with 21 UD)	3-5
BIO XXXX	BIO Senior Experience Course	3-4	XXXX	General Studies, Minor, and/or Elective Requirements	12
XXXX	General Studies, Minor and/or Elective Requirements	8	120 total credits with 40 UD crs		
Semester 7 Total		14-17	Semester 8 Total		15-17

Program Total: 120

Students must complete all BIO courses with a grade of C- or better for them to count toward the degree. A minor is required for the Bachelor of Science in Biology degree. It is essential that students meet with an academic advisor or faculty advisor for degree planning and for selection of a minor. All degree-seeking MSU Denver students must complete an Ethnic Studies & Social Justice requirement. Students may take their biology senior experience course either in the fall or spring semester (depending on interest in

the senior experience courses offered). Please refer to your Degree Progress Report for a detailed list of General Studies, Ethnic Studies & Social Justice, and graduation requirements. (Grad requirements meaning 40 UD, GPA requirements, residency, etc.)

Advisor Contact Information: Visit [Department of Biology Advising](#) or [CLAS Academic Advising](#)

Detailed Course Listing

Non-biology BS Requirements		
CHE 1800	General Chemistry I	4
CHE 1801	General Chemistry I Laboratory	1
CHE 1810	General Chemistry II	4
CHE 1811	General Chemistry II Laboratory	1
CHE 3100	Organic Chemistry I	4
CHE 3120	Organic Chemistry I Laboratory	1
CHE 3110	Organic Chemistry II	3
MTH XXXX	One Year of Math starting with MTH 1109, MTH 1110 or above	8
Non-biology BS Requirements Total		26

Biology, BS Required Courses		
BIO 1080	General Biology I	3
BIO 1090	General Biology I Laboratory	1
BIO 1081	General Biology II	3
BIO 1091	General Biology II	1
BIO 3520	General Ecology	3
BIO 3600 or 3610	General Genetics or Genetics: Principles and Analysis	4
BIO XXXX	Pick 1 Course	4-8
BIO XXXX	UD Electives	17-21
Specific Degree Requirements Total		40

Program Totals

General Studies Requirements	33
Ethnic Studies & Social Justice Requirement	0-3
Biology, BS Required Courses	40
Non-Biology Courses for BIO BS	26
Minor	18-21
Unrestricted Electives to reach 120 total credits	--
Total to Graduate	120



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