



Bachelor of Science

Major: Biology

Specialization: Secondary Education

2023-2024 Sample 4-Year Plan

Total Degree Requirements: 120 credits

Student _____ Student ID# _____ Student Phone # _____

Advisor _____ Minimum GPA 2.0 in major courses Minor/Career Interest(s) _____

Students are not limited to this plan; it is meant to be used as a guide for planning purposes in consultation with your advisor. The sample schedule is one possible path to completing your degree within four years. For official program requirements, please refer to the [Undergraduate Catalog](#).

First Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 119	First Year Seminar		2	F	
BIOL 151-151L	General Biology I and Lab (SGR #6)		4	F	
CHEM 112	General Chemistry I (SGR #6)	p. MATH 114 or higher placement	3	F/S/SU	
CHEM 112L	General Chemistry I Lab		1	F/S/Su	
ENGL 101	Composition I (SGR #1)	p. Placement; C or higher required	3	F/S/Su	
MATH	MATH 114 & MATH 120 or MATH 115 or MATH 121/L or MATH 123 (SGR #5)	If placement higher than MATH 114 take SGR 3 or 4; C or higher required	3-5		
Total Credit Hours			16-18		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 153-153L	General Biology II and Lab (SGR #6)		4	S	
CHEM 114	General Chemistry II	p. CHEM 112, MATH 114 or higher	3	F/S/Su	
CHEM 114L	General Chemistry II Lab		1	F/S/Su	
CMST 101	Foundations of Communication (SGR #2)	C or higher required	3	F/S/Su	
EDFN 101	Exploration of Teaching and Learning		1	F/S	
SOC 100 or PSYC 101	Introduction to Sociology and/or General Psychology (SGR #3)		3		
Total Credit Hours			15		

Second Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 202	Genetics & Molecular Biology	p. BIOL 103 or BIOL 153, CHEM 114/L	3	F	
BIOL 202L	Genetics & Molecular Biology Lab		1	F	
CHEM 326	Organic Chemistry I	p. CHEM 114	3	F	
CHEM 326L	Organic Chemistry I Lab	(if only want 2 sciences, wait on CHEM)	1	F	
MICR 233-233L	Introductory Microbiology and Lab	p. BIOL 151 & (CHEM 106 or CHEM 108 or CHEM 112 or CHEM 114)	4	F	
SGR #4	Arts and Humanities	See list in catalog	3		
Total Credit Hours			15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 204	Introduction to Cell Biology	p. BIOL 202/L	3	S	
BIOL 204L	Introduction to Cell Biology Lab		1	S	
BIOL 221-221L	Human Anatomy and Lab	p. Sophomore standing or consent	4	F/S/Su	
BIOL 290	Seminar		1	S	
BOT 201-201L	General Botany and Lab	p. BIOL 101 or BIOL 151	3	S	
ENGL 201	Composition II (SGR #1)	p. ENGL 101	3	F/S/Su	
SGR #4	Arts and Humanities		3	F/S/Su	
Total Credit Hours			18		

Information Subject to Change. This is not a contract.

p. = Course Prerequisite c. = Course Co-requisite
Semester: F = Fall, S = Spring, SU = Summer



Third Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AIS 211	South Dakota American Indian Culture & Education (SGR #3)		3	F/S/Su	
BIOL 373	Evolution	p. BIOL 151 or BIOL 153	3	F	
EDFN 351	Teaching and Learning I	c. EDFN 340; Teaching, Learning and Leadership department consent required	1		
EDFN 340	Adolescent Development in Educational Contexts	c. EDFN 351; Teaching, Learning and Leadership department consent required	3		
NRM 311	Principles of Ecology	p. BIOL 151 or BIOL 153. Cross-Listed: BIOL 311	3	F	
Total Credit Hours			13		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EDFN 352-352L	Teaching and Learning II and Lab	p. EDFN 351; Teaching, Learning and Leadership department consent required	5		
MATH 120	Trigonometry (SGR #5)	If opted for MATH 114 + MATH 120	3		
PHYS 101-101L	Survey of Physics and Lab	Or PHYS 111/L Discuss with advisor	4	F/S/Su	
General Elective	Select from any discipline		3		
Total Credit Hours			15		

Fourth Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EDFN 453-453L	Teaching and Learning III and Lab	c. SEED 450; Teaching, Learning and Leadership department consent required	7		
SEED 413	7-12 Science Methods		3		
SEED 450	7-12 Reading and Content Literacy	p. Teaching, Learning and Leadership department consent required.	2		
Specialization elective	BIOL 325/L, BIOL/PHIL 383, CHEM 328/L, PHIL/REL 454		3-4		
Total Credit Hours			15-16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EDFN 454	Teaching and Learning IV	p. EDFN 453 c. SEED 465	11		
SEED 456	Capstone/Action Research	c. EDFN 454; Teaching, Learning and Leadership department consent required.	1		
Total Credit Hours			12		

Comments/Notes

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the [Honors program requirements](#).