South Dakota State University

Bachelor of Science
Major: Biology
Specialization: Secondary Education
2025-2026 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 112-112L	General Chemistry I and Lab	p. MATH 114 or higher placement	4	F/S/SU	
ENGL 101	Composition I (SGR #1)	p. Placement; C or higher required	3	F/S/Su	
SGR #4	Arts and Humanities (from two different disciplines or a sequence of a foreign language)	See list in catalog	3	F/S/Su	
		Total Credit Hours	16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 153-153L	General Biology II and Lab (SGR #6)		4	S	
BIOL 290	Seminar		1	S	
CHEM 114-114L	General Chemistry II and Lab	p. CHEM 112, MATH 114 or higher	4	F/S/Su	
CMST 101	Foundations of Communication (SGR #2)	C or higher required	3	F/S/Su	
EDFN 102	Introduction to Education		3	F/S	
		Total Credit Hours	15		

SECOND YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 202-202L	Genetics & Molecular Biology and Lab	p. BIOL 103 or BIOL 153, CHEM 114/L	4	F	
CHEM 326-326L	Organic Chemistry I and Lab	p. CHEM 114	4	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 (from two different disciplines or a sequence of a foreign language)	See list in catalog	3		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 204-204L	Introduction to Cell Biology and Lab	p. BIOL 202/L	4	S	
BIOL 221-221L	Human Anatomy and Lab	p. Sophomore standing or consent	4	F/S/Su	
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	
General elective	Select from any discipline	Taken as needed to reach 120 credits	3		
		Total Credit Hours	17		

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		

Information Subject to Change. This is not a contract.

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

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
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	
SPED 100	Introduction to Persons with Exceptionalities		3	F/S	
		Total Credit Hours	16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EDFN 352	Teaching and Learning II	p. EDFN 351; Teaching, Learning and Leadership department consent required	3		
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	Taken as needed to reach 120 credits	1		
SGR #3	Social Sciences - Civics Requirement	Choose 1: HIST 151, HIST 152, POLS 100, POLS 210, or CIV 100	3		
		Total Credit Hours	14		

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.

Teacher Education Program Progression Requirements

Acceptance into Teacher Education

- A grade of "C" or better is required in education coursework (classes with AIS, EDFN, SPED, or SEED prefixes).
- An overall GPA of 2.5 is required.
- A GPA in the academic major of 2.6 is required.
- Completion of program application and professional licensure location form.

Acceptance into Residency I

- A grade of "C" or better is required in education coursework (classes with AIS, EDFN, SPED, or SEED prefixes).
- An overall GPA of 2.5 is required.
- A GPA of 2.7 is required in both major and education courses.
- The teacher candidate must take the Praxis content exam.
- The teacher candidate is also required to complete a criminal background check with field placements, a TB test with negative reading, and CPR and first aid certification.

Acceptance into Residency II

- A grade of "C" or better is required in education coursework (classes with AIS, EDFN, SPED, or SEED prefixes).
- An overall GPA of 2.5 is required.
- A GPA of 2.7 is required in both major and education courses.
- The teacher candidate must take the Praxis PLT exam.

Academic Requirements

- A grade of "C" or better is required in education coursework (classes with AIS, EDFN, SPED, or SEED prefixes).

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Semester: F = Fall, S = Spring, SU = Summer

- A grade of "C" or better is required in academic major coursework (classes with BIOL, BOT, CHEM, MICR, NRM, or PHYS prefixes).
- An overall GPA of 2.5 is required.
- A GPA of 2.7 is required in both major and education courses.

As part of the Department of Chemistry, Biochemistry and Physics, students in this program must complete:

- a minimum of 33 upper division credits (300-400 level courses)
- a capstone course in the major (SEED 456)

Certification and Licensure

- Completion of an approved teacher preparation program.
- Completion of an approved South Dakota Indian studies course.
- Pass the state designated content knowledge test or 2.7 GPA in content major coursework.
- Pass the state designated pedagogy test.
- Apply online with the South Dakota Department of Education.
- Written recommendation from institution of higher education (SDSU) verifying program completion.