South Dakota State University

Bachelor of Science
Major: Human Biology
2025-2026 Sample 4-Year Plan
Total Degree Requirements: 120 credits

Student _____ **Student ID#** _____ **Student Phone #** _____

Advisor _____ **Minimum GPA** _____ **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	3	F/S/Su	
SGR #3	Social Sciences (from two different disciplines)	PSYC 101 recommended for professional school admission	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)		3	F/S/Su	
NURS 201	Medical Terminology	suggested elective	1	F/S/Su	
SGR #4	Arts and Humanities (from two different disciplines or a sequence of a foreign language)	PHIL 220 recommended	3		
		Total Credit Hours	16		

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
	Shadowing or Internship recommended				

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/S/Su	
ENGL 201	Composition II (SGR #1)	p. ENGL 101	3	F/S/Su	
MICR 233-233L	Introductory Microbiology and Lab	p. BIOL 151 & CHEM 112 or CHEM 114	4	F	
		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	
CHEM 328-328L	Organic Chemistry II and Lab	p. CHEM 326	4	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	15		

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
	Research and/or Internship recommended				

THIRD YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 325-325L	Physiology and Lab	p. BIOL 221/L & CHEM 106 or CHEM 112	4		
BIOL 383	Bioethics	Cross-Listed: PHIL 383	4	F	

Information Subject to Change. This is not a contract.

p. = Course Prerequisite, c. = Corequisites
Semester: F = Fall, S = Spring, SU = Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Major Electives	Select 1/5 from Health-related electives: BIOL 470, 476, 483, 494, 498, 483, CHEM 448/L, 464, MICR 424, 433, 440L, 448, EXS 454/L, HLTH 364/L, HSC 445, NUTR 422, or PHA 352	CHEM 464 recommended (F/SU only)	3 - 4		
PHYS Elective	Physics elective	p. MATH 114 or higher Discuss with advisor whether PHYS 111 -113 is appropriate	4		
		Total Credit Hours	15 - 16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Major Electives	Select 2/5 from Health-related electives: BIOL 470, 476, 483, 494, 498, 483, CHEM 448/L, 464, MICR 424, 433, 440L, 448, EXS 454/L, HLTH 364/L, HSC 445, NUTR 422, or PHA 352	Consider CHEM 466 for Chemistry minor	3 - 4		
STAT 281	Introduction to Statistics	p. MATH 103 or higher	3	F/S/Su	
General elective	Select from any discipline	SOC 100 or HDFS 210 recommended. Discuss professional school requirements with advisor.	3	F/S/Su	
General Elective	Select from any discipline	Consider PHYS 113/L if appropriate	6		
	MCAT/DAT/OAT Prep		0		
		Total Credit Hours	15 - 16		

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
	MCAT/DAT/OAT/GRE and App. to Professional School				

FOURTH YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Major Electives	Select 3/5 from Health-related electives: BIOL 470, 476, 483, 494, 498, 483, CHEM 448/L, 464, MICR 424, 433, 440L, 448, EXS 454/L, HLTH 364/L, HSC 445, NUTR 422, or PHA 352		3 - 4		
MATH 121-121L or MATH 115	Survey of Calculus and Lab or Precalculus (SGR #5)	p. MATH 114, 115 or placement p. MATH 114 or placement	5		
MICR 439	Medical and Veterinary Immunology	p. MICR 233 & BIOL 204	3	F	
SGR #3	Social Sciences - Civics Requirement	Choose 1: HIST 151, HIST 152, POLS 100, POLS 210, or CIV 100	3	F	
		Total Credit Hours	14 - 15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Major Electives	Select 4/5 from Health-related electives: BIOL 470, 476, 483, 494, 498, 483, CHEM 448/L, 464, MICR 424, 433, 440L, 448, EXS 454/L, HLTH 364/L, HSC 445, NUTR 422, or PHA 352	Such as MICR 433	3 - 4		
Major Electives	Select 5/5 from Health-related electives: BIOL 470, 476, 483, 494, 498, 483, CHEM 448/L, 464, MICR 424, 433, 440L, 448, EXS 454/L, HLTH 364/L, HSC 445, NUTR 422, or PHA 352		3 - 4		
General Elective	Select from any discipline		8		
		Total Credit Hours	14 - 15		

COMMENTS/NOTES

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the Honors program requirements.

A grade of C or higher is required for all major requirements including BIOL, MICR, CHEM 112, CHEM 114, CHEM 326, CHEM 328, CHEM 464, PHYS 111, PHYS 113, MATH, and STAT 281.