South Dakota State University

Bachelor of Science
Major: Biology – Human Anatomy Pathway
2026-2027 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	3	F/S/Su	
SGR #3	Social Sciences (from two different disciplines)	See list in catalog	3		
		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	
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	
SGR #4	Arts and Humanities (from two different disciplines or a sequence of a foreign language)	See list in catalog	3		
BIOL 290	Seminar		1	S	
		Total Credit Hours	15		

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 (if you only want 2 sciences, hold off on CHEM)	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 and 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 catalog for list	3		
		Total Credit Hours	16		

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 373	Evolution	p. BIOL 151 or BIOL 153	3	F	
MATH 121-121L	Survey of Calculus (SGR #5)	Or MATH 114 and MATH 120, or MATH 115, or MATH 123	4 – 6		

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
PHYS elective	Physics elective	p. MATH 114 or higher Discuss with advisor whether PHYS 111 -113 is appropriate	4		
SGR #3	Social Sciences - Civics Requirement	Choose 1: HIST 151, HIST 152, POLS 100, POLS 210, or CIV 100	3		
		Total Credit Hours	14 – 16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 325-325L	Physiology and Lab	p. BIOL 151 or 153 or 221	4	F/S/Su	
BIOL 494 or BIOL 498	Internship or Undergraduate Research		2		
STAT 281	Introduction to Statistics	p. MATH 103 or higher	3	F/S/Su	
General Elective	Select from any discipline		3 or 4		
General Elective	Select from any discipline		3		
	GRE preparation if pursuing graduate school	**Total Credit Hours**	15 - 17		

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
	GRE and application to graduate school				

FOURTH YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 383	Bioethics	Cross-Listed: PHIL 383	4	F	
Major requirements	Additional BIOL, MICR, BOT credits – 300 or 400 level		4		
General Elective	Peer mentoring or other electives		3		
General Elective	Select from any discipline		3		
		Total Credit Hours	14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Major requirements	Additional BIOL, MICR, BOT credits – 300 or 400 level		3		
Major requirements	Additional BIOL, MICR, BOT credits – 300 or 400 level		3		
Major requirements	Additional BIOL, MICR, BOT credits – 300 or 400 level		3		
General Elective	Select from any discipline to reach 120 total credits		3-5		
		Total Credit Hours	12-15		

COMMENTS/NOTES

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

SOUTH DAKOTA STATE UNIVERSITY

Bachelor of Science
Major: Biology – Botany Pathway
2026-2027 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	3	F/S/Su	
SGR #3	Social Sciences (from two different disciplines)	See list in catalog	3		
		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	
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	
SGR #4	Arts and Humanities (from two different disciplines or a sequence of a foreign language)	See list in catalog	3		
BIOL 290	Seminar		1	S	
		Total Credit Hours	15		

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 (if you only want 2 sciences, hold off on CHEM)	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 and 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	
BOT 201-201L	General Botany and Lab	p. BIOL 101 or BIOL 151	3	S	
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 catalog for list	3		
		Total Credit Hours	16		

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 373	Evolution	p. BIOL 151 or BIOL 153	3	F	
MATH 121-121L	Survey of Calculus (SGR #5)	Or MATH 114 and MATH 120, or MATH 115, or MATH 123	4 – 6		

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
PHYS elective	Physics elective	p. MATH 114 or higher Discuss with advisor whether PHYS 111 -113 is appropriate	4		
SGR #3	Social Sciences - Civics Requirement	Choose 1: HIST 151, HIST 152, POLS 100, POLS 210, or CIV 100	3		
		Total Credit Hours	14 – 16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BOT 327-327L	Plant Physiology and Lab	p. BOT 201	4	S	
BIOL 494 or BIOL 498	Internship or Undergraduate Research		2		
STAT 281	Introduction to Statistics	p. MATH 103 or higher	3	F/S/Su	
General Elective	Select from any discipline		3 or 4		
General Elective	Select from any discipline		3		
	GRE preparation if pursuing graduate school	**Total Credit Hours**	15 - 17		

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
	GRE and application to graduate school				

FOURTH YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 383	Bioethics	Cross-Listed: PHIL 383	4	F	
Major requirements	Additional BIOL, MICR, BOT credits – 300 or 400 level		4		
General Elective	Peer mentoring or other electives		3		
General Elective	Select from any discipline		3		
		Total Credit Hours	14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Major requirements	Additional BIOL, MICR, BOT credits – 300 or 400 level		3		
Major requirements	Additional BIOL, MICR, BOT credits – 300 or 400 level		3		
Major requirements	Additional BIOL, MICR, BOT credits – 300 or 400 level		3		
General Elective	Select from any discipline to reach 120 total credits		3-5		
		Total Credit Hours	12-15		

COMMENTS/NOTES

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

SOUTH DAKOTA STATE UNIVERSITY

Bachelor of Science
Major: Biology – Veterinary Anatomy Pathway
2026-2027 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)** _____

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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)	See list in catalog	3		
		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	
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	
SGR #4	Arts and Humanities (from two different disciplines or a sequence of a foreign language)	See list in catalog	3		
BIOL 290	Seminar		1	S	
		Total Credit Hours	15		

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 (if you only want 2 sciences, hold off on CHEM)	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 and 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	
VET 223-223L	Anatomy and Physiology of Domestic Animals and Lab	p. CHEM 108 or 120 or 326	4	S	
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 catalog for list	3		
		Total Credit Hours	16		

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 476	Advanced Mammalian Physiology	p. BIOL 221 or VET 223	4	F	
MATH 121-121L	Survey of Calculus (SGR #5)	Or MATH 114 and MATH 120, or MATH 115, or MATH 123	4 – 6		

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

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
PHYS elective	Physics elective	p. MATH 114 or higher Discuss with advisor whether PHYS 111 -113 is appropriate	4		
SGR #3	Social Sciences - Civics Requirement	Choose 1: HIST 151, HIST 152, POLS 100, POLS 210, or CIV 100	3		
		Total Credit Hours	14 – 16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
General Elective	Select from any discipline if VET 223/BIOL 476 completed	Consider BIOL 371 if applying to SDSU Veterinary Medicine Program	4		
BIOL 494 or BIOL 498	Internship or Undergraduate Research		2		
STAT 281	Introduction to Statistics	p. MATH 103 or higher	3	F/S/Su	
General Elective	Select from any discipline		3 or 4		
General Elective	Select from any discipline		3		
	GRE preparation if pursuing graduate school	**Total Credit Hours**	15 - 17		

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
	GRE and application to graduate school				

FOURTH YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 383	Bioethics	Cross-Listed: PHIL 383	4	F	
Major requirements	Additional BIOL, MICR, BOT credits – 300 or 400 level		4		
MICR 439	Medical and Veterinary Immunology	p. MICR 233 & BIOL 204	3	F	
General Elective	Select from any discipline	Consider peer mentoring for FYS	3		
		Total Credit Hours	14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Major requirements	Additional BIOL, MICR, BOT credits – 300 or 400 level		3		
Major requirements	Additional BIOL, MICR, BOT credits – 300 or 400 level		3		
Major requirements	Additional BIOL, MICR, BOT credits – 300 or 400 level		3		
General Elective	Select from any discipline to reach 120 total credits		3-5		
		Total Credit Hours	12-15		

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