South Dakota State University

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

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

Advisor _____ **Minimum GPA** 2.0 **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
PS 119	First Year Seminar		1	F	
HO 111-111L	Introduction to Horticulture and Lab		3	F	
BIOL 101-101L or BIOL 151-151L	Biology Survey I and Lab (SGR #6) (3 cr) or General Biology I and Lab (SGR #6) (4 cr)		3-4	F/S F/S(I)	
MATH 114	College Algebra (SGR #5)	p. Placement; MATH 115 or MATH 120 or higher accepted	3	F/S/SU	
SGR #2	Oral Communication (SGR #2)		3	F/S/SU	
Elective			1-2		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BOT 201-201L	General Botany and Lab (SGR #6)	p. BIOL 101 or 151	3	S	
CHEM 106-106L	Chemistry Survey and Lab (SGR #6)	p. MATH placement	4	F/S/SU	
SGR #1	Written Communication (SGR #1)	p. Placement	3	F/S/SU	
SGR #3	Social Sciences (SGR #3)	ECON 201 is part of the Ag Bus Minor, AFES203 is highly recommended	3		
SGR #4	Arts and Humanities (SGR #4)		3		
		Total Credit Hours	16		

SECOND YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
HO/PS 210-210L	Turf and Weed Management in Horticulture and Lab	p. HO 111 or PS 103	3	F	
HO/PS 255-255L	Woody Plants and Lab	p. HO 111 or BIOL 101	4	F	
PS 213-213L	Soils and Lab (SGR # 6)	p. CHEM 106/L or CHEM 112/L	3	F/S	
SGR #3	Social Sciences (SGR #3) – Civics Requirement	Select from the designated list of courses to fulfill civics requirement	3		
SGR #4	Arts and Humanities (SGR #4)		3		
		Total Credit Hours	16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CHEM 108-108L	Organic and Biochemistry and Lab (SGR #6)	p. CHEM 106 or CHEM 112	5	F/S/SU	
HO/PS 434	Local Food Production		2	S	
PHYS 101-101L	Survey of Physics and Lab (SGR #6)	Check all lecture and lab meeting times	4	F/S	
SGR #1	Written Communication (SGR #1)	p. ENGL 101	3	F/S/SU	
		Total Credit Hours	14		

Information Subject to Change. This is not a contract.

p. = Course Prerequisite, c. = Course Corequisite, I = Internet
Semester: F = Fall, S = Spring, SU = Summer

THIRD YEAR

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
HO/PS 494	Internship	Can be taken any summer – contact the internship coordinator when you have an internship lined up for the summer	1	SU	
		Total Credit Hours	1		

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
HO/PS 311-311L	Herbaceous Plants and Lab	p. HO 111 & BOT 201or consent	3	F	
HO/PS 416	Landscape Nursery Management	p. HO 111 & PS 213	3	F odd	
HO/PS 435	Local Food Production: Harvest and Storage		2	F	
HO/PS 490	Internship – Seminar	p. HO or PS 494	1	F/S	
PS 223-223L	Principles of Plant Pathology and Lab	p. BIOL 103, BIOL 153 or BOT 201/L	3	F	
PS 405-405L	Entomology and Lab	p. "C" grade or better in BIOL 151	3	F	
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BOT 327-327L	Plant Physiology and Lab	p. BIOL 101 and 103, BIOL 151 and 153, BOT 201 and BIOL 101, or BOT 201 and BIOL 151	4	S	
HO/PS 329	Horticultural Pests		3	S	
HO/PS 339	Arboriculture and Urban Forestry		3	S	
HO/PS 411 or HO/PS 444	Fruit Crop Systems or Vegetable Crop Systems	Take 1-6 credit hours, 2 credits required HO 444 not currently offered	1	S odd	
HO/PS 447	Organic Plant Production		3	S	
		Total Credit Hours	14		

FOURTH YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
HO 475	Senior Capstone	Sr standing; capstone course	3	F	
Technical elective	Select 15 credits from 200 and above level courses with ACCT, AGEC, BADM, BLAW, BOT, ECON, ENTR, FIN, FS, MGMT, MICR, MKTG prefix, or 300 and above level courses with HO or AST prefix, or any course with LA or NUTR prefix. Courses selected for Technical Electives cannot be used to fulfill the Core requirements in the Horticulture major.	Refer to catalog for approved courses	12		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
HO/PS 411 or HO/PS 444	Fruit Crop Systems or Vegetables Crop Systems	Take 1-6 credit hours, 2 credits required HO 444 not currently offered	1	S odd	
HO/PS 413-413L	Greenhouse and High Tunnel Management and Lab		3	S	
HO 414-414L	Plant Propagation and Lab	p. HO 111 & BOT 201 or consent	3	S Even	
Technical Elective	Select 15 credits from 200 and above level courses with ACCT, AGEC, BADM, BLAW, BOT, ECON, ENTR, FIN, FS, MGMT, MICR, MKTG prefix, or 300 and above level courses with HO or AST prefix, or any course with LA or NUTR prefix. Courses selected for Technical Electives cannot be used to fulfill the Core requirements in the Horticulture major.	Refer to catalog for approved courses	3		
Elective	Taken as needed to complete additional degree requirements		4		
		Total Credit Hours	14		

COMMENTS/NOTES

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

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