South Dakota State University

Bachelor of Science
Major: Computer Science
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
CSC 150	Computer Science I		3		
CSC 201	Introduction to Modern Computing	p. CSC 150	2		
ENGL 101	Composition I (SGR #1)	p. Placement	3		
MATH 123	Calculus I (SGR #5)	p. Placement	4		
SGR #4	Arts & Humanities (SGR #4)		3		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 250	Computer Science II	p. CSC 150 (requires grade >=C)	3		
ENGL 277	Technical Writing in Engineering	p. ENGL 101	3		
INFO 102	Data Ethics (SGR #3)		3		
MATH 125	Calculus II	p. MATH 123	4		
SGR #2	Oral Communications (SGR #2)		3		
		Total Credit Hours	16		

SECOND YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 300	Data Structures	p. CSC 250 (>= C)	3		
CSC 303	Ethical and Security Issues in Computer Science		3	S	
CSC 317	Computer Organization and Architecture	p. CSC 314 (requires grade >= C)	3	S	
MATH 250	Introduction to Linear Algebra and Proof	p. MATH 123	3		
SGR #6	Natural Science Sequence (SGR #6)	BIOL 151, CHEM 112, PHYS 111 OR PHYS 207	4		
		Total Credit Hours	16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 346	Object Oriented Programming	p. CSC 300 (requires grade >= C)	3	S	
CSC 461	Programming Language	p. CSC 300, (>= C)	3	S	
CSC 484	Database Management	p. CSC 300, (>= C)	3	S	
MATH 316	Discrete Mathematics	p. MATH 250	3		
SGR #6	Natural Science Sequence (SGR #6)	BIOL 153, CHEM 114, PHYS 113 OR PHYS 209	4		
		Total Credit Hours	16		

Information Subject to Change. This is not a contract.

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

THIRD YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade >= C)	3		
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade >= C)	3		
SE 305	Foundations Of Software Engineering	p. CSC 300, (>= C)	3	F	
SGR #3	Social Sciences (SGR #3)	Must fulfill civics requirement	3		
STAT 281	Statistical Methods I	p. MATH 103 or higher	3		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 474	Computer Networks	p. CSC 300, (>=C)	3		
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade >= C)	3		
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade >= C)	3		
MATH 374	Scientific Computation I	p. CSC 150, MATH 125	3		
SE 306	Software Project Management and Testing	p. SE 305, (>= C)	3	S	
		Total Credit Hours	15		

FOURTH YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 445	Introduction to Theory of Computation	p. CSC 250 (>= C), MATH 253, and MATH 316	3	F	
CSC 456	Operating Systems	p. CSC 300, CSC 314, (>= C)	3	F	
CSC 464	Senior Design I	p. CSC 484 or SE 306, (>= C)	3	F	
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade >= C)	3		
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade >= C)	3		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 465	Senior Design II	p. CSC 464 (>= C)	3	S	
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade >= C)	3		
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade >= C)	3		
SGR #4	Arts & Humanities (SGR #4)		3		
		Total Credit Hours	12		

COMMENTS/NOTES

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

Computer Science students must pass all CSC and SE courses with a grade of C or better. All graduating seniors are required to take the Major Field Test in Computer Science, which is given once per semester.