



**Bachelor of Science
Major: Computer Science
2020-2021 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 100L	Introduction to Computer Science Lab		1	F	
CSC 150	Computer Science I		3		
ENGL 101	Composition I (SGR #1)	p. Placement	3		
GE 101	Introduction to Eng and Tech. Professions		1		
MATH 123	Calculus I (SGR #5)	p. Placement	4		
SGR #4	Arts & Humanities/Diversity (SGR #4)		3		
Total Credit Hours			15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 250	Computer Science II		3		
ENGL 277	Technical Writing in Engineering	p. ENGL 101, GE 101	3		
INFO 102	Social & Ethical Aspects of Informatics (SGR #3)		3	S	
MATH 125	Calculus II	p. MATH 123	4		
SPCM 101	Fundamentals of Speech (SGR #2)		3		
Total Credit Hours			16		

Second Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 244	Digital Logic	p. CSC 150 (\geq C)	3	F	
CSC 244L	Digital Logic Lab	p. CSC 150 (\geq C)	1	F	
CSC 300	Data Structures	p. CSC 250 (\geq C)	3		
CSC 314	Assembly Language	p. CSC 250 (\geq C)	3	F	
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 211	4		
Total Credit Hours			17		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 303	Ethical and Security Issues in Computer Science		3	S	
CSC 317	Computer Org and Arch	p. CSC 314 (requires grade \geq C)	3	S	
CSC 346	Object Oriented Programming	p. CSC 300 (requires grade \geq 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 213	4		
Total Credit Hours			16		



Third Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 354	Systems Programming	p. CSC 346 (\geq C)	3	F	
Natural Science	Choose one of the following:	BIOL 151/ CHEM 112/PHYS 111/PHYS 211	4		
SE 305	Found. Of Software Engineering	p. CSC 300, (\geq C)	3	F	
SGR #3	Social Sciences/Diversity (SGR #3)		3		
STAT 281	Statistical Methods I	p. MATH 103 or higher	3		
Total Credit Hours			16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 461	Programming Language	p. CSC 300, (\geq C)	3	S	
CSC 484	Database Management	p. CSC 300, (\geq C)	3	S	
MATH 374	Scientific Computation I	p. CSC 150, MATH 125	3		
SE 306	Software Project Management & Testing	p. SE 305, (\geq C)	3	S	
Total Credit Hours			12		

Fourth Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 445	Intro to Theory of Computation	p. CSC 250 (\geq C), MATH 253, and MATH 316	3	F	
CSC 456	Operating Systems	p. CSC 300, CSC 314, (\geq C)	3	F	
CSC 464	Senior Design I	p. CSC 484 or SE 306, (\geq C)	2	F	
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade \geq C)	3		
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade \geq C)	3		
Total Credit Hours			14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 446	Compiler Construction	p. CSC 300, CSC 445, (\geq C)	3	S	
CSC 465	Senior Design II	p. CSC 464 (\geq C)	2	S	
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade \geq C)	3		
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade \geq C)	3		
SGR #4	Arts & Humanities/Diversity (SGR #4)		3		
Total Credit Hours			14		

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 above is required in all Computer Science and Software Engineering courses.