Name: _____

Student ID: _____

Date Admitted Into Major: _____

BACHELOR OF SCIENCE
COMPUTER SCIENCE

GENERAL EDUCATION REQUIREMENTS

Competencies

☐ ♦ Basic College Math	
☐ ♦ Reading Comprehension	

♣ General Education Categories (34-35 credits)

♦FYS	First Year Seminar		3	
♦W-I	Written Communication - Level I		3	
♦OC	Oral Communication		3	
PGR	Personal Growth & Responsibility		3	
CEA	Creative Expression & Appreciation		3	
WC	World Cultures		3	
HP	The Human Past		3	
CS	Contemporary Society		3	
SR	Scientific Reasoning:	♯ Any SR course	3-4	
		♯ SR Lab course	4	
QR	Quantitative Reasoning		3	

‡ Written Communication (Level II and Level III)

W-II	Written Communication - Level II			☐
W-III	Written Communication - Level III			☐

Free Electives (2 credits minimum)

May be necessary to take additional credits to attain the minimum 120 credits required for graduation depending on choices made for general education or minor selection.

Minor (Optional):

COURSES IN MAJOR (45-49 credits total)

Required (33 credits)

CSC	101	Survey of Computer Science I	3	
CSC	105	Survey of Computer Science II	4	
CSC	110	Software Design and Program. I	4	
CSC	115	Software Design and Program. II	4	
CSC	260	Data Structures and Algorithms	4	
CSC	295	Computer Org. & Arch.	3	
CSC	300	Software Engineering I	**4**	
CSC	381	Operating System Principles	3	
CSC	520	Computer Science Capstone Project Specification	1	
CSC	521	Computer Science Capstone Project	3	

Electives (6-8 credits)

†¶CSC				
†¶CSC				

Required Option Sequence (6-8 credits)
(typically taken junior and/or early senior year

†CSC				
†CSC				

Artificial Intelligence & Robotics	CSC 340	CSC 485
Computation Theory	CSC 400	CSC 415
Computer Graphics and Visualization	CSC 246	CSC 425
Computer Networking and Security	CSC 315A	CSC 435
Distributed and Cloud Computing	CSC 315A	CSC 475
Embedded Systems	CSC 223	CSC 230
Object Oriented Programming	CSC 311	CSC 325
Parallel Computing	CSC 445	CSC 475
Software Engineering	CSC 263	CSC 351

♥ Required Support Courses (34 credits total)

MAT	147	Statistics	3	
MAT	214A	Discrete Structures	4	
MAT	220	Calculus I	4	
MAT	221	Calculus II	4	
►MAT			3	
PHS	205	Digital Circuit Design	4	
◊			4	
◊			4	
∞			4	

♥ Students may choose to use support courses to satisfy general education categories, but may not be required to do so. **Note:** If a course is used to satisfy two or more requirements (for example, a support course and Scientific Reasoning requirement), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the credit total required for graduation.

♣ Courses used to satisfy the general education requirements of the university must be taken from a minimum of six different academic disciplines. First Year Seminar and Level I Written Communications courses are exempt from this restriction. Courses may not be used to fulfill both major discipline and general education requirements.

♯ These Scientific Reasoning General Education Category courses do not have to be a sequence or be from the same discipline.

‡ Level II and Level III Written Communications Courses may be used to satisfy requirements anywhere else in a student's program of study where they may apply. The credits are counted only in one area.

† At least one CSC elective or one Option course must be chosen from the following list of courses using a programming language other than the one used in the CSC 201J/CSC 202J sequence: CSC 273, CSC 278, CSC 311, CSC 325.

¶ At least one CSC elective must be numbered 290 or above.

◊ A laboratory science sequence chosen from the following list is a required support ingredient for the Computer Science major: BIO 131-132, CHE 130-131, CHE 130 & 212, PHS 211A-212A, PHS 221-222, GLS 100 & 102.

∞ This science support course is in addition to the lab science sequence and must be chosen from the following list: BIO 131, CHE 130, CHE 212, GLS 100, GLS 102, PHS 211A, PHS 221.

► Choose one MAT course of at least three credits that has MAT 220 or MAT 221 as a prerequisite, or another MAT course with permission of the Computer Science Chairperson.

♦ COMPETENCIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS	♦ GENERAL EDUCATION CATEGORIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS

Exceptions in the timing of courses will be made for transfer students

Total credits for graduation: 120

Effective: 9/2016