

Name: \_\_\_\_\_  
Student ID: \_\_\_\_\_  
Date Admitted Into Major: \_\_\_\_\_

## BACHELOR OF SCIENCE COMPUTER SCIENCE

GENERAL EDUCATION REQUIREMENTS				
<b>Competencies</b>				
<input type="checkbox"/> ♦ Basic College Math				
<input type="checkbox"/> ♦ Reading Comprehension				
<b>◆ General Education Categories (34-35 credits)</b>				
◆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	
<b>‡ Written Communication (Level II and Level III)</b>				
W-II	Written Communication - Level II			<input type="checkbox"/>
W-III	Written Communication - Level III			<input type="checkbox"/>

**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 (45-50 credits total)				
<b>Required (30 credits)</b>				
CSC	105	Survey of Computer Science	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	CS Capstone Project Spec.	1	
CSC	521	CS Capstone Project	3	
<b>Electives (9-12 credits)</b>				
††CSC				
††CSC				
††CSC				
<b>Required Option Sequence (6-8 credits) (typically taken junior and/or early senior year)</b>				
†CSC				
†CSC				
%Computation Theory:		CSC 400 and CSC 415		
Computer Graphics and Visualization:		Choose two from: CSC 246, CSC 340, CSC 425		
Cyber Physical Systems:		Choose two from: CSC 223, CSC 230, CSC 485		
Networking & Cloud Computing:		CSC 315A plus choose one from: CSC 435, CSC 445, CSC 475		
Software Engineering:		CSC 351 plus choose one from: CSC 263, CSC 325		
<b>▼ Required Support Courses (34 credits total)</b>				
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 110/115 sequence: CSC 278, CSC 279, CSC 325.
- †† At least one CSC elective must be numbered between 301 and 499 (CSC 367 internship may *not* be used to satisfy this requirement).
- ◇ 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.
- % The Computation Theory Option is not scheduled on a regular basis – see department chairperson for details and availability of courses.

◆ COMPETENCIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS	◆ GENERAL EDUCATION CATEGORIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS
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Exceptions in the timing of courses will be made for transfer students

**Total credits for graduation: 120**

**Effective: 9/2017**