

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Catalogue

Student: _____

Date: _____

2021-2022

netID: _____

Advisor: _____

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
CS Elective (0XX)	3		QD: CS 2100 - Intermediate Programming ¹	4	
QD: CS 1210 - Computer Programming I ¹	3		QD: CS 1640 - Discrete Structures	3	
WIL (ENGL 1001, HCOL 1000)	3		QD: MATH 1248 - Calculus II	4	
QD: MATH 1234 - Calculus I	4		Diversity 1 or 2 ² (D1/D2)	3	
CEMS 1500 - CEMS First Year Seminar	1		Natural Science elective (non-lab) ³	3	
CS 1500 - First Year Seminar	1				
<i>Total credits</i>	<i>15</i>		<i>Total credits</i>	<i>17</i>	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
QD: CS 2240 - Data Structures and Algorithms	3		QD: CS 2250 - Computability and Complexity	3	
QD: CS 2210 - Computer Organization	3		QD: CS 2300 - Advanced Programming	3	
QD: MATH 2248, 2522 or 2544, 2678, 3201	3-4		QD: STAT 2510 - Applied Probability	3	
QD: STAT 2430 - Statistics for Engineering	3		QD: MATH 2248, 2522 or 2544, 2678, 3201	3-4	
Natural Science elective (with lab) ³	4		Sustainability ² (SU)	3	
<i>Total credits</i>	<i>16-17</i>		<i>Total credits</i>	<i>15-16</i>	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
QD: CS 3010 - Operating Systems	3		CS Elective (1XX)	3	
Diversity 1 ² (D1)	3		CS Elective (2XX)	3	
CS Elective (1XX)	3		CS Elective (2XX)	3	
Humanities Elective ⁴	3		Social Sciences Elective ⁴	3	
Free Elective	3		Free Elective	3	
<i>Total credits</i>	<i>15</i>		<i>Total credits</i>	<i>15</i>	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
QD: CS 3240 - Algorithm Design and Analysis	3		CS Elective (2XX)	3	
CS 3920 - Senior Seminar	1		Capstone Experience ⁵	3	
Free Elective	3		Free Elective	3	
Free Elective	3		Free Elective	3	
Free Elective	3		Free Elective	3	
<i>Total credits</i>	<i>13</i>		<i>Total credits</i>	<i>15</i>	

Minimum Total Credits Required for Degree: 121

****Utilize degree audit or re-numbering widget (bit.ly/UVMWidget) to confirm courses.****

- Grade of C- or higher required in CS 1210 and CS 2100.
 - Students must fulfill the University Requirements - Diversity (D1/D2), Sustainability (SU), Foundational Writing & Information Literacy (WIL), and Quantitative Reasoning (QD).
 - Refer to the catalogue for approved Natural Science courses.
 - Refer to the CEMS Program Electives for approved Humanities and Social Science elective courses (<https://www.uvm.edu/cems/cems-program-electives>).
 - Capstone Experience courses: CS 3020, 3050, 3060, 3110, 3250, 3260, 3280, 3530, 3540, and 3750.
- N.B. Students must achieve a minimum GPA of 2.00 in all courses with a CS prefix. The minimum 2.00 GPA also

This document is an advising tool and should be used in combination with a student's degree audit, as well as the published Catalogue for 2021-2022 found at <http://catalogue.uvm.edu/>