BACHELOR OF SCIENCE IN COMPUTER SCIENCE Catalogue 2021-2022 Student: Date: netID: Advisor: Year 1 Semester 1 Status | Semester 2 Cr Status CS Elective (0XX) 3 QR: CS 110 - Intermediate Programming¹ 4 QR: CS 021 - Computer Programming I¹ QR: CS 064 - Discrete Structures 3 3 FWIL (ENGS 001, TAP, HCOL 085)² 3 QR: MATH 022 - Calculus II 4 QR: MATH 021 - Calculus I 4 Diversity 1 or 2² (D1/D2) 3 1 Natural Science elective (non-lab)³ CEMS 050 - CEMS First Year Seminar 3 CS 050 - First Year Seminar 1 Total credits 15 Total credits 17

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
QR: CS 124 - Data Structures and Algorithms	3		QR: CS 125 - Computability and Complexity	3	
QR: CS 121 - Computer Organization	3		QR: CS 120 - Advanced Programming	3	
QR: MATH 121, 122 or 124, 173, 271	3-4		QR: STAT 151 - Applied Probability	3	
QR: STAT 143 - Statistics for Engineering	3		QR: MATH 121, 122 or 124, 173, 271	3-4	
Natural Science elective (with lab) ³	4		Sustainability ² (SU)	3	
Total credits	16-17		Total credits	15-16	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
QR: CS 201 - 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	
Total credits	15		Total credits	15	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
QR: CS 224 - Algorithm Design and Analysis	3		CS Elective (2XX)	3	
CS 292 - 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	
Total credits	13		Total credits	15	

Minimum Total Credits Required for Degree: 121

- 1. Grade of C- or higher required in CS 021 and CS 110.
- 2. Students must fulfill the University Requirements Diversity (D1/D2), Sustainability (SU), Foundational Writing & Information Literacy (FWIL), and Quantitative Reasoning (QR).
- 3. Refer to the catalogue for approved Natural Science courses.
- 4. Refer to the CEMS Program Electives for approved Humanities and Social Science elective courses (https://www.uvm.edu/cems/cems-program-electives).
- 5. Capstone Experience courses: CS 202, 205, 206, 211, 225, 226, 228, 253, 254, and 275.
- N.B. Students must achieve a minimum GPA of 2.00 in all courses with a CS prefix. The minimum 2.00 GPA also includes courses without a CS prefix that are substituted for a CS course requirement.

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/