

**BACHELOR OF SCIENCE**

**Catalogue**

**Major: COMPUTER SCIENCE & INFORMATION SYSTEMS**

**2022 - 2023**

**Student:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**netID:** \_\_\_\_\_

**Advisor:** \_\_\_\_\_

**Year 1**

Semester 1	Cr	Status	Semester 2	Cr	Status
QR: CS 008 - Intro to Web Site Development	3		QR: CS 110 - Intermediate Programming <sup>1</sup>	4	
QR: CS 021 - Computer Programming I <sup>1</sup>	3		QR: CS 064 - Discrete Structures	3	
EC 011 - Macroeconomics	3		QR: MATH 022 - Calculus II	4	
QR: MATH 021 - Calculus I	4		EC 012 - Microeconomics	3	
CEMS 050 - CEMS First Year Seminar	1		Natural Science elective (non-lab) <sup>2</sup>	3	
CS 050 - 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
QR: CS 124 - Data Structures and Algorithms	3		QR: CS 148 - Database Design for Web	3	
QR: CS 121 - Computer Organization/FWIL <sup>3</sup>	3		QR: CS 120 - Advanced Programming	3	
Diversity 1 or 2 <sup>3</sup> (D1/D2)	3		BSAD 061 - Managerial Accounting	3	
BSAD 060 - Financial Accounting	3		FWIL (ENGS 001) <sup>3</sup> /QR: CS 121	3	
QR: STAT 143 - Statistics for Engineering	3		BSAD 030 - Decision Analysis	3	
<i>Total credits</i>	<i>15</i>		<i>Total credits</i>	<i>15</i>	

**Year 3**

Semester 1	Cr	Status	Semester 2	Cr	Status
CS Elective (1XX)	3		CS Elective (1XX)	3	
Diversity 1 <sup>3</sup> (D1)	3		QR: CS 224 - Algorithm Design and Analysis	3	
BSAD 150 - Marketing Management	3		Natural Science elective (with lab) <sup>2</sup>	4	
BSAD 120 - Leadership & Org Behavior	3		Sustainability (SU) <sup>3</sup>	3	
Humanities Elective <sup>4</sup>	3		BSAD 173 - Operations Management	3	
<i>Total credits</i>	<i>15</i>		<i>Total credits</i>	<i>16</i>	

**Year 4**

Semester 1	Cr	Status	Semester 2	Cr	Status
QR: STAT 151 - Applied Probability	3		Capstone Experience <sup>5</sup>	3	
CS 292 - Senior Seminar	1		BSAD ≥ 1XX	3	
BSAD 180 - Managerial Finance	3		CS Elective (2XX)	3	
CS Elective (2XX)	3		Social Science Elective <sup>4</sup>	3	
Free Elective	3		Free Elective	2	
<i>Total credits</i>	<i>13</i>		<i>Total credits</i>	<i>14</i>	

**Minimum Total Credits Required for Degree: 120**

- Grade of C- or higher required in CS 021 and CS 110.
- Refer to the catalogue for approved Natural Science courses.
- Students must fulfill the University Requirements - Diversity (D1/D2), Sustainability (SU), Foundational Writing & Information Literacy (FWIL), and Quantitative Reasoning (QR).
- 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 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 2022-2023 found at <http://catalogue.uvm.edu/>**