

**BACHELOR OF SCIENCE**

**Catalogue**

**Major: COMPUTER SCIENCE & INFORMATION SYSTEMS**

**2021-2022**

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

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

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

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

**Year 1**

Semester 1	Cr	Status	Semester 2	Cr	Status
QR: CS 1080 - Intro to Web Site Development	3		QR: CS 2100 - Intermediate Programming <sup>1</sup>	4	
QR: CS 1210 - Computer Programming I <sup>1</sup>	3		QR: CS 1640 - Discrete Structures	3	
EC 1400 - Macroeconomics	3		QR: MATH 1248 - Calculus II	4	
QR: MATH 1234 - Calculus I	4		EC 1450 - Microeconomics	3	
CEMS 1500 - CEMS First Year Seminar	1		Natural Science elective (non-lab) <sup>2</sup>	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
QR: CS 2240 - Data Structures and Algorithms	3		QR: CS 2480 - Database Design for Web	3	
QR: CS 2210 - Computer Organization	3		QR: CS 2300 - Advanced Programming	3	
Diversity 1 or 2 <sup>3</sup> (D1/D2)	3		BUS 061 - Managerial Accounting	3	
BUS 060 - Financial Accounting	3		FWIL (ENGS 001, HCOL 085) <sup>3</sup>	3	
QR: STAT 2430 - Statistics for Engineering	3		BUS 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: STAT 2510 - Applied Probability	3	
BUS 2500 - Marketing Management	3		Natural Science elective (with lab) <sup>2</sup>	4	
BUS 2300 - Leadership & Org Behavior	3		Sustainability (SU) <sup>3</sup>	3	
Humanities Elective <sup>4</sup>	3		BUS 2700 - 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: CS 3240 - Algorithm Design and Analysis	3		Capstone Experience <sup>5</sup>	3	
CS 3920 - Senior Seminar	1		BUS ≥ 1XX	3	
BUS 2800 - 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**

**\*\*Utilize degree audit or re-numbering widget ([bit.ly/UVMWidget](http://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 (FWIL), and Quantitative Reasoning (QR).
  - 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 3002, 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 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/>**