

BACHELOR OF SCIENCE

Catalogue

Major: COMPUTER SCIENCE & INFORMATION SYSTEMS

2020-2021

Student: _____

Date: _____

netID: _____

Advisor: _____

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
CS 008 - Intro to Web Site Development	3		CS 110 - Intermediate Programming ⁵	4	
CS 021 - Computer Programming I ⁵	3		CS 064 - Discrete Structures	3	
EC 011 - Macroeconomics	3		MATH 022 - Calculus II	4	
MATH 021 - Calculus I	4		EC 012 - Microeconomics	3	
CEMS 050 - CEMS First Year Seminar	1		Natural Science elective (non-lab) ⁶	3	
CS 050 - First Year Seminar ² [Opt]	[1]				
<i>Total credits</i>	<i>14-15</i>		<i>Total credits</i>	<i>17</i>	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
CS 124 - Data Structures and Algorithms	3		CS 148 - Database Design for Web	3	
CS 121 - Computer Organization	3		CS 120 - Advanced Programming	3	
Diversity 1 or 2 ³	3		BSAD 061 - Managerial Accounting	3	
BSAD 060 - Financial Accounting	3		FWIL (ENGS 001/TAP/HCOL 085) ¹	3	
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 ≥ 1XX	3		CS ≥ 1XX	3	
Diversity 1 ³	3		STAT 151 - Applied Probability	3	
BSAD 150 - Marketing Management	3		Natural Science elective (with lab) ⁶	4	
BSAD 120 - Leadership & Org Behavior	3		Sustainability (SU)	3	
Free Elective ⁴	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
CS 224 - Algorithm Design and Analysis	3		Capstone Experience ⁷	3	
CS 292 - Senior Seminar	1		BSAD ≥ 1XX	3	
BSAD 180 - Managerial Finance	3		CS ≥ 2XX	3	
CS ≥ 2XX	3		Free Elective ⁴	3	
Free Elective ⁴	3		Free Elective ⁴	3	
<i>Total credits</i>	<i>13</i>		<i>Total credits</i>	<i>15</i>	

Minimum Total Credits Required for Degree: 120

1. Foundational Writing and Information Literacy (FWIL) is a University requirement. Students must take either ENGS 001 or HCOL 085 (only for students enrolled in the Honors College). Students transferring from the College of Arts and Sciences can use a TAP class to fulfill this requirement.
 2. CS 050 is recommended for new majors taking CS 021 or CS 110, but is not required.
 3. Students must take one three-credit D1 course and a second three-credit D1 or D2 course, per University Diversity Requirement.
 4. Free Electives: Students may use free elective credits to pursue coursework germane to their interests. Students are encouraged to work with their advisor(s) to select courses that complement their curricula and support their academic and career goals. Students should select one course that meets the University Sustainability Requirement (SU).
 5. Grade of C- or higher required in CS 021 and CS 110.
 6. Refer to the catalogue for approved Natural Science courses.
 7. Students may choose one of the following courses: CS 202, 205, 206, 211, 225, 226, 228, 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.
- N.B. The University's Quantitative Reasoning (QR) requirement is built into the Computer Science curriculum.

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 2020-2021 found at <http://catalogue.uvm.edu/>