BACHELOR OF SCIENCE

Major: COMPUTER SCIENCE & INFORMATION SYSTEMS

Catalogue

2020-2021

Student: _____ **Date:** _____

netID: _____ **Advisor:** _____

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
CS 1080 - Intro to Web Site Development	3		CS 2100 - Intermediate Programming[5]	4	
CS 1210 - Computer Programming I[5]	3		CS 1640 - Discrete Structures	3	
EC 1400 - Principles of Macroeconomics	3		MATH 1248 - Calculus II	4	
MATH 1234 - Calculus I	4		EC 1450 - Principles of Microeconomics	3	
CEMS 1500 - CEMS First Year Seminar	1		Natural Science elective (non-lab)[6]	3	
CS 1500 - Seminar for New CS Majors[2] [Opt]	[1]				
Total credits	*14-15*		*Total credits*	*17*	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
CS 2240 - Data Structures and Algorithms	3		CS 2480 - Database Design for Web	3	
CS 2210 - Computer Organization	3		CS 2300 - Advanced Programming	3	
Diversity 1 or 2[3]	3		BUS 2620 - Managerial Accounting	3	
BUS 2610 - Financial Accounting	3		FWIL (ENGS 1001/HCOL 1000)[1]	3	
STAT 2430 - Statistics for Engineering	3		BUS 2130 - Decision Analysis	3	
Total credits	*15*		*Total credits*	*15*	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
CS ≥ 2xxx	3		CS ≥ 2xxx	3	
Diversity 1[3]	3		STAT 2510 - Applied Probability	3	
BUS 2500 - Marketing Management	3		Natural Science elective (with lab)[6]	4	
BUS 2300 - Leadership & Org Behavior	3		Sustainability (SU)	3	
Free Elective[4]	3		BUS 2700 - Operations Management	3	
Total credits	*15*		*Total credits*	*16*	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
CS 3240 - Algorithm Design and Analysis	3		Capstone Experience[7]	3	
CS 3920 - Senior Seminar	1		BSAD ≥ 2xxx	3	
BUS 2800 - Managerial Finance	3		CS ≥ 3xxx	3	
CS ≥ 3xxx	3		Free Elective[4]	3	
Free Elective[4]	3		Free Elective[4]	3	
Total credits	*13*		*Total credits*	*15*	

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 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 cour 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/