BACHELOR OF SCIENCE IN COMPUTER SCIENCE - HONORS COLLEGE

Catalogue

2020-2021

Student:			Date:		
netID:			**Advisor:**		

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
CS 0XX - 008 Intro to Web Site Development	3		CS 110 - Intermediate Programming[6]	4	
CS 021 - Computer Programming I[6]	3		CS 064 - Discrete Structures	3	
HCOL 085[1] - The Pursuit of Knowledge	3		MATH 022 - Calculus II	4	
MATH 021 - Calculus I	4		HCOL 086 - HCOL Seminar	3	
CEMS 050 - CEMS First Year Seminar	1		Natural Science elective (non-lab)[7]	3	
CS 050 - First Year Seminar[2] [Opt]	[1]				
Total credits	*14-15*		*Total credits*	*17*	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
CS 124 - Data Structures and Algorithms	3		CS 125 - Computability and Complexity	3	
CS 121 - Computer Organization	3		CS 120 - Advanced Programming	3	
MATH 121/122 or 124/173[5]	3-4		STAT 151 - Applied Probability	3	
STAT 143 - Statistics for Engineering	3		MATH 121/122 or 124/173/271[5]	3-4	
HCOL 185 - HCOL Seminar	3		HCOL 186 - HCOL Seminar	3	
Total credits	*15-16*		*Total credits*	*15-16*	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
CS 201 - Operating Systems	3		CS ≥ 1xx	3	
Diversity 1[3]	3		CS ≥ 2xx	3	
CS ≥ 1xx	3		Free Elective[4]	3	
Natural Science elective (with lab)[7]	4		Diversity 1 or 2[3]	3	
Free Elective[4]	3		Sustainability (SU)	3	
			CEMS 101 - HCOL Research Experience	1	
Total credits	*16*		*Total credits*	*16*	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
CS 224 - Algorithm Design and Analysis	3		CS 284 - Honors Thesis	3	
CS 292 - Senior Seminar	1		Capstone Experience[8]	3	
CS 293 - Honors Thesis	3		Free Elective[4]	3	
Free Elective[4]	3		Free Elective[4]	3	
Free Elective[4]	3		Free Elective[4]	2	
Total credits	*13*		*Total credits*	*14*	

Minimum Total Credits Required for Degree (with Honors): 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. Students select two of the following math electives: MATH 121, MATH 122 or MATH 124, MATH 173, MATH 271.

6. Grade of C- or higher required in CS 021 and CS 110.

7. Refer to the catalogue for approved Natural Science courses.

8. 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/