**BACHELOR OF SCIENCE IN COMPUTER SCIENCE** **Catalogue 22 - 23**

**Student:** **Date:**

**netID:** **Advisor:**

**Year 1**

| Semester 1 | Cr | Status | Semester 2 | Cr | Status |
|---|---|---|---|---|---|
| CS Elective (0XX)[6] | 3 | | QD: CS 2100 - Intermediate Programming[1] | 4 | |
| QD: CS 1210 - Computer Programming I[1] | 3 | | QD: CS 1640 - Discrete Structures | 3 | |
| WIL: (ENGL 1001, HCOL 1000)[2] | 3 | | QD: MATH 1248 - Calculus II | 4 | |
| MA/QD: MATH 1234 - Calculus I | 4 | | Diversity 1 or 2[2] (D1/D2) | 3 | |
| CEMS 1500 - CEMS First Year Seminar | 1 | | N1[3] - Natural Science Elective | 3 | |
| CS 1500 - Seminar for New CS Majors | 1 | | | | |
| *Total credits* | *15* | | *Total credits* | *17* | |

**Year 2**

| Semester 1 | Cr | Status | Semester 2 | Cr | Status |
|---|---|---|---|---|---|
| QD: CS 2240 - Data Structures and Algorithms | 3 | | QD: CS 2250 - Computability and Complexity | 3 | |
| QD: CS 2210 - Computer Organization/SU2 | 3 | | WIL2/QD: CS 2300 - Advanced Programming | 3 | |
| QD: MATH 1234, 2522 or 2544, 2678, 3201 | 3-4 | | QD: STAT 2510 - Applied Probability | 3 | |
| QD: STAT 2430 - Statistics for Engineering | 3 | | QD: MATH 1234, 2522 or 2544, 2678, 3201 | 3-4 | |
| Natural Science elective (with lab)[3] | 4 | | SU2/QD: CS 2210 | 3 | |
| *Total credits* | *16-17* | | *Total credits* | *15-16* | |

**Year 3**

| Semester 1 | Cr | Status | Semester 2 | Cr | Status |
|---|---|---|---|---|---|
| QD: CS 3010 - Operating Systems | 3 | | CS Elective (1XX)[6] | 3 | |
| Diversity 1[2] (D1) | 3 | | QD: CS 3240 - Algorithm Design and Analysis | 3 | |
| CS Elective (1XX)[6] | 3 | | CS Elective (2XX)[6] | 3 | |
| AH1[4] - Arts and Humanities | 3 | | S1[4] - Social Science | 3 | |
| Free Elective | 3 | | Free Elective | 3 | |
| *Total credits* | *15* | | *Total credits* | *15* | |

**Year 4**

| Semester 1 | Cr | Status | Semester 2 | Cr | Status |
|---|---|---|---|---|---|
| CS Elective (2XX)[6] | 3 | | CS Elective (2XX)[6] | 3 | |
| CS 3920 - Senior Seminar | 1 | | Capstone Experience[5] | 3 | |
| Free Elective | 3 | | Free Elective | 3 | |
| Free Elective | 3 | | Free Elective | 3 | |
| Free Elective | 3 | | Free Elective | 3 | |
| *Total credits* | *13* | | *Total credits* | *15* | |

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

1. Grade of C- or higher required in CS 1210 and CS 2100.
2. Students must fulfill the University Requirements - Diversity (D1/D2), Sustainability (SU), Foundational Writing & Information Literacy (FWIL), and Quantitative Reasoning (QR).
3. Refer to the catalogue for approved Natural Science courses.
4. Refer to the CEMS Program Electives for approved Humanities and Social Science elective courses (https://www.uvm.edu/cems/cems-program-electives).
5. 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.
6. Ultilize degree audit or re-numbering widget (bit.ly/UVMWidget) to confirm courses.

**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/**