BACHELOR OF SCIENCE IN CIVIL ENGINEERING **Catalogue 2020-2021**

Student: **Date:**

netID: **Advisor:**

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
CEMS 1500 - CEMS First Year Seminar[1]	1		CEE 1000 - Intro to Civil & Envr. Engr.[1]	2	
CHEM 1400 - General Chemistry I	4		CS 1210 - Computer Programming I (QR)	3	
ENGR 1020 - Graphical Communication	2		MATH 1248 - Calculus II	4	
FWIL (ENGS 1001/HCOL 1000)[2]	3		PHYS 1510 - Prob. Solv. Session I [opt]	[1]	
MATH 1234 - Calculus I	4		PHYS 1500 - Physics for Engineers I	4	
General Education Elective[3]	3		Diversity 1 or 2[3]	3	
Total credits	*17*		*Total credits*	*16-17*	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
CEE 1100 - Statics	3		ME 1120 - Dynamics	3	
CEE 2000 - Geomatics	4		CEE 2120 - Environmental Systems	3	
MATH 2248 - Calculus III	4		MATH 3201 - Adv. Engineering Mathematics	3	
STAT 2430 - Statistics for Engineers	3		MATH 2522 - Applied Linear Algebra	3	
Diversity 1[3]	3		EE 2175 - Electrical Circuits & Sensors	4	
Total credits	*17*		*Total credits*	*16*	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
CEE 2100 - Mechanics of Materials	3		CEE 3010 - Materials & Structures lab	3	
CEE 3400 - Transportation Systems	3		GEOL 1050, BIOL 1400 or BIOL 1450	4	
CEE 3600 - Hydraulics	3		CEE 3700 - Structural Analysis I	3	
CEE 3610 - Hydraulics Lab	2		CEE 3800 - Geotechnical Principles	3	
CEE 3510 - Water & Wastewater Engr	3		CEE 3810 - Geotechnical Principles Lab	2	
			General Education Elective[3]	3	
Total credits	*14*		*Total credits*	*18*	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
CE 185 - Capstone Design I	3		CE 186 - Capstone Design II	3	
Technical Elective[4]	3		CEE Design Elective[5]	3	
CEE Design Elective[5]	3		CEE Elective[6]	3	
CEE Design Elective[5]	3		CEE Elective[6]	3	
General Education Elective[3]	3		CEE Elective[6]	3	
Total credits	*15*		*Total credits*	*15*	

Minimum Total Credits Required for Degree: 128

1. CEMS 050 & CE 003 are degree requirements designed for first-year students. Internal and external transfer students may substitute 100-level or higher engineering (BME, CE, EE, EMGT, ENGR, ME) credits for these requirements.
2. 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.
3. University & CEE General Education Requirements include: 15 credits of approved General Education (GenEd) electives including one 3-credit D1 course, a second 3-credit D1 or D2 course, and 3 credits each of Humanities and Social Sciences.
4. Technical Elective: All 100 level or above courses in engineering (BME, CE, EE, EMGT [except EMGT 170], ENGR, ME).
5. Design Electives: CE 172, CE 173, CE 241, CE 247, CE 253, CE 255, CE 256, CE 262, CE 263, CE 265, CE 273, CE 285, CE 286, CE 288 and some CE 295 (Special Topics) courses (consult advisor). At least one design elective must be from CE 172, CE 173, CE 241, and CE 286.
6. CE Electives: Any 200-level CE course, CE 172, CE 173, and EMGT 201.

N.B. The University's Sustainability (SU) and Quantitative Reasoning (QR) requirements are built into the Civil

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/