BACHELOR OF SCIENCE IN ENVIRONMENTAL ENGINEERING - HONORS COLLEGE **Catalogue 2021-2022**

Student: **Date:**

netID: **Advisor:**

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
CEMS 050 - CEMS First Year Seminar	1		HCOL 086 (D1/2)[1] - HCOL Seminar	3	
CHEM 031 - General Chemistry I	4		PHYS 031 - Physics for Engineers I	4	
ENGR 002 - Graphical Communication	2		PHYS 030 - Prob. Solv. Session I [Optional]	[1]	
FWIL (HCOL 085 - Seminar)[1]	3		QR: MATH 022 - Calculus II	4	
QR: MATH 021 - Calculus I	4		SU: CE 003 - First Year Design Experience	2	
QR: CS 021 - Computer Programming I	3		CHEM 032 - General Chemistry II	4	
Total credits	*17*		*Total credits*	*17-18*	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
CE 010 - Geomatics	4		CE 001 - Statics	3	
QR: MATH 121 - Calculus III	4		SU: CE 151 - Water & Wastewater Engr.	3	
HCOL 185 (D1)[1] - HCOL Seminar	3		QR: MATH 122 - Applied Linear Algebra	3	
QR: STAT 143 - Statistics for Engineers	3		QR: MATH 271 - Appl Math for Engr & Sci	3	
SU: CE 132 - Environmental Systems	3		General Education Elective[1] (HCOL 186 Seminar)	3	
Total credits	*17*		*Total credits*	*15*	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
CE 100 - Mechanics of Materials	3		ME 040 - Thermodynamics	3	
CE 133 - Transportation Systems	3		CE 180 - Geotechnical Principles	3	
GEOL 055 - Environmental Geology	4		CE 182 - Geotechnical Principles Lab	2	
CE 160 - Hydraulics	3		CE 254 - Environmental Qual. Analysis	4	
CE 162 - Hydraulics Lab	2		EE 075 - Electrical Circuits & Sensors	4	
			CEMS 101 - HCOL Research Experience	1	
Total credits	*15*		*Total credits*	*17*	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
SU: CE 134 - System Focused Design Engr	3		SU: CE 175 - Capstone Design	3	
Env Engr Elective[2]	3		Env Engr Elective[2] (CE 194 - Thesis, w/ advisor approval)	3	
HydroGeoPhys Design Elective[2]	3		BioGeoChem Design Elective[2]	3	
Technical Elective[3] (CE 193 - Thesis)	3		General Education Elective[1] (Social Science)	3	
BIOL 001 - Principles of Biology	4		General Education Elective[1] (Humanities)	3	
Total credits	*16*		*Total credits*	*15*	

Minimum Total Credits Required for Degree: 128

1. University Requirements & General Education Electives: University Requirements include Diversity (D1/D2), Sustainability (SU), Quantitative Reasoning (QR) and Foundational Writing & Information Literacy (FWIL). At least 3 credits General Education Electives must be from the Humanities and at least 3 credits must be from the Social Sciences. Refer to the CEMS Program Electives for approved Humanities and Social Science elective courses (https://www.uvm.edu/cems/cems-program-electives).
2. Env Engr Electives: CE 218, CE 260, EMGT 201, all HydroGeoPhys and BioGeoChem Design Electives, and some CE 295 (Special Topics) courses (consult advisor).
   - HydroGeoPhys Design Electives: CE 262, CE 263, CE 265, CE 285, CE 288, and some CE 295 (Special Topics) courses (consult faculty advisor).
   - BioGeoChem Design Electives: CE 247, CE 253, CE 255, CE 256, and some CE 295 (Special Topics) courses (consult faculty advisor).
3. Science/Technical Elective: ME 042 or any 100-level or higher course in Engineering (BME, CE, EE, EMGT, ENGR, ME) or Science (BIOL, CHEM, GEOL, PHYS) or PSS 161, PSS 264, PSS 268, or PSS 269 or NR 288, NR 289.

N.B. CE 134 must be taken before or together with CE 175. CE 175 - the capstone experience is to be taken in the last or second-last semester before graduation and should not be taken until after four of the following five courses are completed: CE 133, CE 151, CE 160, CE 170, and CE 180. The remaining fifth course can be taken in the same semester as CE 175.

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 2021-2022 found at http://catalogue.uvm.edu/