

**BACHELOR OF SCIENCE IN ENVIRONMENTAL ENGINEERING**

**Catalogue**

Student: \_\_\_\_\_

Date: \_\_\_\_\_

**2019-2020**

netID: \_\_\_\_\_

Advisor: \_\_\_\_\_

**Year 1**

Semester 1	Cr	Status	Semester 2	Cr	Status
ENGR 002 - Graphical Communication	2		CS 020 - Programming for Engineers	3	
CHEM 031 - General Chemistry I	4		PHYS 031 - Physics for Engineers I	4	
FWIL (ENGS 001/TAP/HCOL 085) <sup>1</sup>	3		PHYS 030 - Prob. Solv. Session I [opt]	[1]	
MATH 021 - Calculus I	4		MATH 022 - Calculus II	4	
General Education Elective <sup>3</sup>	3		CE 003 - First Year Design Experience <sup>2</sup>	2	
ENGR 050 - First Year Engr Seminar <sup>2</sup>	1		CHEM 032 - General Chemistry II	4	
<i>Total credits</i>	17		<i>Total credits</i>	17-18	

**Year 2**

Semester 1	Cr	Status	Semester 2	Cr	Status
CE 010 - Geomatics	4		CE 001 - Statics	3	
MATH 121 - Calculus III	4		CE 132 - Environmental Systems	3	
BIOL 001/002 - Principles of Biology	4		ME 040 - Thermodynamics	3	
STAT 143 - Statistics for Engineers	3		MATH 271 - Appl Math for Engr & Sci	3	
			MATH 122 - Applied Linear Algebra	3	
<i>Total credits</i>	15		<i>Total credits</i>	15	

**Year 3**

Semester 1	Cr	Status	Semester 2	Cr	Status
CE 100 - Mechanics of Materials	3		EE 075 - Electrical Circuits & Sensors	4	
CE 133 - Transportation Systems	3		CE 180 - Geotechnical Principles	3	
CE 151 - Water & Wastewater Engr.	3		CE 182 - Geotechnical Principles Lab	2	
CE 160 - Hydraulics	3		CE 254 - Environmental Qual. Analysis	4	
CE 162 - Hydraulics Lab	2		GEOL 001 or PSS 161	4	
Diversity 1 or 2 <sup>3</sup>	3				
<i>Total credits</i>	17		<i>Total credits</i>	17	

**Year 4**

Semester 1	Cr	Status	Semester 2	Cr	Status
CE 185 - Capstone Design I	3		CE 186 - Capstone Design II	3	
HydroGeoPhys Design Elective <sup>4</sup>	3		BioGeoChem Design Elective <sup>6</sup>	3	
Env Engr Elective <sup>5</sup>	3		Env Engr Elective <sup>5</sup>	3	
Sci/Tech Elective <sup>7</sup>	3		General Education Elective <sup>3</sup>	3	
Diversity 1 <sup>3</sup>	3		General Education Elective <sup>3</sup>	3	
<i>Total credits</i>	15		<i>Total credits</i>	15	

**Minimum Total Credits Required for Degree: 128**

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. [CE 003](#) & [ENGR 050](#) are degree requirements designed for first-year students. Internal and external transfer students may substitute 100-level or higher engineering (BME, CE, EE, ENGR, ME) credits for these requirements.
  3. Required General Education (GenEd) Electives: 9 credits of approved GenEd electives. Students must also take one three-credit D1 course and a second three-credit D1 or D2 course, per University Diversity Requirement.
  4. HydroGeoPhys Design Electives: [CE 261](#), [CE 262](#), [CE 265](#), [CE 284](#), [CE 285](#), [CE 288](#) and some [CE 295](#) (Special Topics) courses (consult advisor).
  5. Env Engr Electives: [CE 218](#), [CE 220](#), [CE 226](#), [CE 250](#), [CE 259](#), [CE 260](#), all HydroGeoPhys and BioGeoChem Design Electives and some [CE 295](#) (Special Topics) courses (consult advisor).
  6. BioGeoChem Design Electives: [CE 247](#), [CE 251](#), [CE 253](#), [CE 255](#), [CE 256](#) and some [CE 295](#) (Special Topics) courses (consult advisor).
  7. Env Engr Science/Tech Elective: [ME 042](#) or any 100-level or higher course in Engineering (BME, CE, EE, ENGR, ME) or science (BIOL, CHEM, GEOL, PHYS) or [PSS 161](#), [PSS 264](#), [PSS 266](#), [PSS 268](#) or [PSS 269](#).
- N.B. The University's Sustainability (SU) and Quantitative Reasoning (QR) requirements are built into the Environmental Engineering 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 2019-2020 found at <http://catalogue.uvm.edu/>