

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Catalogue

Student: _____

Date: _____

2024 - 2025

netID: _____

Advisor: _____

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
MA: MATH 1234 - Calculus I*	4		MA: MATH 1248 - Calculus II* <i>MATH 1234</i>	4	
N2, QD: CHEM 1400 - General Chemistry 1	4		N2, QD: PHYS 1500 - Physics for Engineers I <i>MATH 1234</i>	4	
CEMS 1500 - CEMS First Year Seminar	1		PHYS 1510 - Physics Problem Solving I [Optional]	[1]	
ENGR 1020 - Graphical Communication	2		SU: CEE 1000 - Intro to Civil & Envir Engr	2	
Catamount Core (WIL1): ENGL 1001 - Written Expression	3		QD: CS 1210 - Computer Programming I	3	
Catamount Core (AH Arts & Humanities)	3		Catamount Core (Diversity 1 or Diversity 2)	3	
<i>Total credits</i>	17		<i>Total credits</i>	16-17	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
CEE 1100 - Statics* <i>MATH 1248; PHYS 1500</i>	3		SU: CEE 2120 - Environmental Systems* <i>CHEM 1400; MATH 1234</i>	3	
MA: MATH 2248 - Calculus III <i>MATH 1248</i>	4		ME 1120 - Dynamics <i>CEE 1100; MATH 2248</i>	3	
CEE 2000 - Geomatics <i>MATH 1234</i>	4		MATH 3201 - Adv Engineering Mathematics <i>MATH 2248; Coreq: MATH 2522</i>	3	
QD: STAT 2430 - Statistics for Engineering <i>MATH 1234</i>	3		MA: MATH 2522 - Applied Linear Algebra <i>MATH 1248</i>	3	
N2: GEOL 1400 - Environmental Geology OR N2: BIOL 1400 or 1450 - Principles of Biology	4		EE 2175 - Electrical Circuits & Sensors <i>MATH 1248</i>	4	
<i>Total credits</i>	18		<i>Total credits</i>	16	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
CEE 2100 - Mechanics of Materials <i>CEE 1100; Pre/Coreq: MATH 2248</i>	3		CEE 3010 - Materials and Structures Lab <i>Pre/Coreq: CEE 2100; Coreq: CEE 3700</i>	3	
SU: CEE 2130 - System Focused Design Engr <i>STAT 2430</i>	3		CEE 3700 - Structural Analysis <i>CS 1210; Pre/Coreq: MATH 2522; CEE 2100</i>	3	
CEE 3800 - Geotechnical Engineering <i>CEE 1100 or CEE 1150; Coreq: CEE 2100</i>	3		CEE 3600 - Hydraulics <i>MATH 2248; CEE 1100 or CEE 1150; Pre/Coreq: CS 1210</i>	3	
CEE 3810 - Geotechnical Principles Lab <i>Coreq: CEE 2100; CEE 3800</i>	2		CEE 3610 - Hydraulics Lab <i>Coreq: CEE 3600</i>	2	
CEE 3400 - Transportation Systems <i>Pre/Coreq: CEE 2000</i>	3		Catamount Core (AH Arts & Humanities)	3	
SU: CEE 3510 - Water Quality Engineering <i>CEE 2120</i>	3		Catamount Core (S1 Social Science)	3	
CEE 1900 - Career Preparation	1				
<i>Total credits</i>	18		<i>Total credits</i>	17	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
Design Elective OR GC2, SU, WIL2: CEE 4950 - Capstone Design	3		Design Elective OR GC2, SU, WIL2: CEE 4950 - Capstone Design	3	
Design Elective	3		CEE Elective	3	
CEE Elective	3		CEE Elective	3	
CEE/Science/Technical Elective	3		Catamount Core (Diversity 1)	3	
Catamount Core (S1 Social Science)	3				
<i>Total credits</i>	15		<i>Total credits</i>	12	

Minimum Total Credits Required for Degree: 129

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 2024-2025 found at <http://catalogue.uvm.edu/>

Prerequisite courses are listed below the course name in italics. Prerequisites listed are only for courses, as relevant to your specific degree program, and may have other registration restrictions. Please refer to the catalogue.

* Grade of C- or higher required

Design Elective: Please refer to your degree audit to see course options.

CEE Elective: Please refer to your degree audit to see course options.

CEE/Science/Technical Elective: Any 2000-level or higher course in CEE as well as BME, EE, ENGR, EMGT (except EMGT 2041), ME or Science (BIOL, CHEM, GEOL, PHYS, MMG).

Catamount Core: Students may take courses that fulfill more than one Catamount Core requirement, but they must still take at least 40 unique credits of courses that have been approved to fulfill Catamount Core requirements. It is possible that a single course can be counted toward more than one category. A minimum of 12 credits must be on D1/D2, AH1/AH2, and S1 courses. Up to 6 credits could then be applied to Free Electives (e.g. internship, toward minor, toward double major, etc.)