BACHELOR OF SCIENCE IN ENGINEERING - Honors College   **Catalogue**

| Student: | | Date: | | **2023 - 2024** |

| netID: | | Advisor: |

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
MA: MATH 1234 - Calculus I*	4		BME 1600, CEE 1000, EE 1100, ME 1010 - First Year Design Experience	2	
CHEM 1400 - General Chemistry 1	4		MA: MATH 1248 - Calculus II* *MATH 1234*	4	
ENGR 1020 - Graphical Communication	2		N2, QD: PHYS 1500 - Physics for Engineers I *MATH 1234*	4	
CEMS 1500 - CEMS First Year Seminar	1		PHYS 1510 - Physics Problem Solving I [Optional]	[1]	
Catamount Core (WIL1): HCOL 1000 - FY Writing Seminar	3		QD: CS 1210 - Computer Programming I	3	
Catamount Core	3		HCOL 1500 - FY Research Presentation Seminar	3	
Total credits	*17*		*Total credits*	*16-17*	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
CEE 1100 - Statics* *MATH 1248; PHYS 1500*	3		MATH 3201 - Adv Engineering Mathematics *MATH 2248; Coreq: MATH 2522 or MATH 2544*	3	
MA: MATH 2248 - Calculus III *MATH 1248*	4		MA: MATH 2544 - Linear Algebra *MATH 1248; Pre/Coreq: MATH 2248*	3	
N1, QD: PHYS 1550 - Physics for Engineers II *PHYS 1500; MATH 1248; Coreq: MATH 2248*	3		ME 1210 - Thermodynamics* *MATH 1248; PHYS 1500; CHEM 1400*	3	
PHYS 1560 - Physics Problem Solving II [Optional]	[1]		QD: STAT 2430 - Statistics for Engineering *MATH 1234* **OR** STAT 2510 - Applied Probability *MATH 1248*	3	
EE 2125: Circuits I **OR** EE 2175: Electrical Circuits & Sensors **OR** EE 2145: Electrical Engr Concepts *MATH 1248*	4		Catamount Core	3	
HCOL 2000 - Sophomore Seminar	3		HCOL 2000 - Sophomore Seminar	3	
Total credits	*17-18*		*Total credits*	*18*	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
Engineering Science Elective	3		Engineering Science Elective	3	
Engineering Science Elective	3		Engineering Science Elective	3	
Engineering Science Elective	3		Engineering Science Elective	3	
Technical Elective	3		Technical Elective	3	
Catamount Core	3		Catamount Core	3	
Catamount Core	3		CEMS 2020 - Research Thesis Proposal	1	
CEMS 2010 - HCOL Research Experience	1				
Total credits	*19*		*Total credits*	*16*	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
BME 4600, CEE 2130, EE 4100, ME 4010 - Capstone Design	3		BME 4650, CEE 4950, EE 4200, ME 4020 - Capstone Design II	3	
Engineering Science Elective	3		Engineering Science Elective (3000 Level)	3	
Engineering Science Elective (3000 Level)	3		Engineering Science Elective (3000 Level)	3	
Technical Elective (Honors Thesis)	3		Technical Elective (Honors Thesis)	3	
Catamount Core	3		Free Elective **OR** Catamount Core	3	
Total credits	*15*		*Total credits*	*15*	

Minimum Total Credits Required for Degree: 128

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 2023-2024 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

Free Elective: Students may use free elective credits to pursue coursework relevant to their interests, including Professional Development Electives. Students are encouraged to work with their advisor(s) to select courses that complement their curricula and support their academic and career goals.

Engineering Science Elective: All BME, CEE, EE, ENGR, ME and EMGT courses (except ENGR 1100). Must have a minimum of 9 credits at the 3000-level.

Technical Elective: Any 2000-level or higher course in CEMS or BSAD; natural sciences courses with advisor approval. BSE students may not double count BSAD courses as both Tech Electives and General Education.

Capstone Design I and II courses must have the same course prefix.

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.

Students are encouraged to overlap Catamount Core requirements with their PLHC required courses (HCOL 1500 and both HCOL 2000 courses)