

**BACHELOR OF SCIENCE IN ENGINEERING**

Catalogue

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

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

2022-2023

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

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

**Year 1**

Semester 1	Cr	Status	Semester 2	Cr	Status
CHEM 031 - General Chemistry I	4		BME 010, CE 003, EE 001, or ME 001 - First Year Design Experience	2	
FWIL (ENGS 001, TAP, HCOL 085) <sup>1</sup>	3		PHYS 031 - Physics for Engineers I	4	
ENGR 002 - Graphical Communication	2		PHYS 030 - Prob. Solv. Session I [Optional]	[1]	
CEMS 050 - CEMS First Year Seminar	1		QR: MATH 022 - Calculus II	4	
General Education Elective <sup>1</sup> (Humanities)	3		QR: CS 021 - Computer Programming I	3	
QR: MATH 021 - Calculus I	4		Free Elective	3	
<i>Total credits</i>	<i>17</i>		<i>Total credits</i>	<i>16-17</i>	

**Year 2**

Semester 1	Cr	Status	Semester 2	Cr	Status
EE 020, EE 075, or EE 100	4		Diversity 1 or 2 <sup>1</sup> (D1/D2)	3	
General Education Elective <sup>1</sup> (Social Science)	3		ME 040 - Thermodynamics	3	
CE 001 - Statics	3		QR: MATH 124 - Linear Algebra	3	
QR: MATH 121 - Calculus III	4		QR: MATH 271 - Adv Engineering Mathematics	3	
PHYS 125 - Physics for Engineers II	3		QR: STAT 143 Statistics for Engineers or	3	
PHYS 123 - Prob. Solv. Session II [Optional]	[1]		QR: STAT 151 Applied Probability		
<i>Total credits</i>	<i>17-18</i>		<i>Total credits</i>	<i>15</i>	

**Year 3**

Semester 1	Cr	Status	Semester 2	Cr	Status
Engineering Science Elective <sup>2</sup>	3		Engineering Science Elective <sup>2</sup>	3	
Engineering Science Elective <sup>2</sup>	3		Engineering Science Elective <sup>2</sup>	3	
Engineering Science Elective <sup>2</sup>	3		Engineering Science Elective <sup>2</sup>	3	
Diversity 1 <sup>1</sup> (D1)	3		Technical Elective <sup>3</sup>	3	
Technical Elective <sup>3</sup>	3		General Education Elective <sup>1</sup> (SU)	3	
<i>Total credits</i>	<i>15</i>		<i>Total credits</i>	<i>15</i>	

**Year 4**

Semester 1	Cr	Status	Semester 2	Cr	Status
Engineering Science Elective <sup>2</sup>	3		Engineering Science Elective <sup>2</sup> (2XX)	3	
Engineering Science Elective <sup>2</sup> (2XX)	3		Engineering Science Elective <sup>2</sup> (2XX)	3	
Technical Elective <sup>3</sup>	3		Technical Elective <sup>3</sup>	3	
CE 134, ME/ BME 185, or EE 187- Capstone Design <sup>4</sup>	3		CE 175, ME/ BME 186, or EE 188 - Capstone Design <sup>4</sup>	3	
Free Elective	3				
<i>Total credits</i>	<i>15</i>		<i>Total credits</i>	<i>12</i>	

**Minimum Total Credits Required for Degree: 122**

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. Engineering Science Electives: All BME, CE, EE, ENGR, ME and EMGT courses (except ENGR 010). Must have a minimum of 9 credits at the 200-level.
3. Technical Electives: Any 100-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 Gen Ed.
4. Capstone Design I and II courses must have the same course prefix, choose: CE 134 & 175 or EE 187 & 188 or ME 185 & 186 or BME 187 & 188.

**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 2022-2023 found at <http://catalogue.uvm.edu/>**