

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

**Catalogue**

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

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

**2019-2020**

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

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

**Year 1**

Semester 1	Cr	Status	Semester 2	Cr	Status
ENGR 002 - Graphical Communication	2		ME 001/ EE 001/ CE 003/ BME 001 - First Year Design Experience <sup>2</sup>	2	
CHEM 031 - General Chemistry I	4		PHYS 031 - Physics for Engineers I	4	
HCOL 085 - Pursuit of Knowledge <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		HCOL 086 - First Yr Sem. (Diversity 1/2) <sup>3</sup>	3	
ENGR 050 - First Year Engr Seminar [opt]	[1]		CS 020 - Programming for Engineers	3	
<b>Total credits</b>	<b>16-17</b>		<b>Total credits</b>	<b>16-17</b>	

**Year 2**

Semester 1	Cr	Status	Semester 2	Cr	Status
EE 003 + 081 / EE 075 / EE 100	4/5		CE 001 - Statics	3	
Free Elective	3		ME 040 - Thermodynamics	3	
HCOL 185 - Soph Sem. (Diversity 1) <sup>3</sup>	3		HCOL 186 - Soph Sem.	3	
MATH 121 - Calculus III	4		MATH 271 - Appl Math for Engr & Sci	3	
PHYS 125 - Physics for Engineers II	3		STAT 143 Statistics for Engineers or	3	
PHYS 123 - Prob. Solv. Session II [opt]	[1]		STAT 151 Applied Probability		
<b>Total credits</b>	<b>17-18</b>		<b>Total credits</b>	<b>15</b>	

**Year 3**

Semester 1	Cr	Status	Semester 2	Cr	Status
Engineering Science Elective <sup>4</sup>	3		Engineering Science Elective <sup>4</sup>	3	
Engineering Science Elective <sup>4</sup>	3		Engineering Science Elective <sup>4</sup>	3	
Engineering Science Elective <sup>4</sup>	3		Engineering Science Elective <sup>4</sup>	3	
Free Elective	3		General Education Elective <sup>3</sup>	3	
Technical Elective <sup>5</sup>	3		Free Elective	3	
			CEMS 101 - HCOL Research Exp.	1	
<b>Total credits</b>	<b>15</b>		<b>Total credits</b>	<b>16</b>	

**Year 4**

Semester 1	Cr	Status	Semester 2	Cr	Status
Engineering Science Elective <sup>4</sup>	3		Engineering Science Elective <sup>4</sup> (2XX)	3	
Engineering Science Elective <sup>4</sup> (2XX)	3		Engineering Science Elective <sup>4</sup> (2XX)	3	
ME/EE/BME/CE 193 - Honors Thesis	3		ME/EE/BME/CE 194 - Honors Thesis	3	
Technical Elective <sup>5</sup>	3		Free Elective	3	
CE/ME 185 or BME/EE 187 - Capstone Design <sup>6</sup>	3		CE/ME 186 or BME/EE 188 - Capstone Design <sup>6</sup>	3	
<b>Total credits</b>	<b>15</b>		<b>Total credits</b>	<b>15</b>	

**Minimum Total Credits Required for Degree: 120**

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. First Year Design: This degree requirement is designed for first-year students. Internal and external transfer students may substitute 100-level or higher engineering (BME, CE, EE, ENGR, ME) credits for this requirement.
  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. Engineering Science Electives: All BME, CE, EE, ENGR and ME courses (except [ENGR 010](#)). Must have a minimum of 9 credits at the 200-level.
  5. Technical Electives: Any 100-level or higher course in CEMS or BSAD; natural or physical sciences courses with advisor approval. BSE students may not double count BSAD courses as both Tech Electives and Gen Ed.
  6. Capstone Design I and II courses must have the same prefix.
- N.B. The University's Quantitative Reasoning (QR) requirement is built into the Engineering curriculum. Students should use General Education Electives and/or Engineering Science Electives to satisfy the Sustainability (SU) requirement.

**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/>**