BACHELOR OF SCIENCE IN ENGINEERING

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[2]	2	
CHEM 031 - General Chemistry I	4		PHYS 031 - Physics for Engineers I	4	
FWIL (ENGS 001/TAP/HCOL 085)[1]	3		PHYS 030 - Prob. Solv. Session I [opt]	[1]	
MATH 021 - Calculus I	4		MATH 022 - Calculus II	4	
General Education Elective[3]	3		Diversity 1 or 2[3]	3	
ENGR 050 - First Year Engr Seminar [opt]	[1]		CS 020 - Programming for Engineers	3	
Total credits	*16-17*		*Total credits*	*16-17*	

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	
Diversity 1[3]	3		Free Elective	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 STAT 151 Applied Probability	3	
PHYS 123 - Prob. Solv. Session II [opt]	[1]				
Total credits	*17-18*		*Total credits*	*15*	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
Engineering Science Elective[4]	3		Engineering Science Elective[4]	3	
Engineering Science Elective[4]	3		Engineering Science Elective[4]	3	
Engineering Science Elective[4]	3		Engineering Science Elective[4]	3	
General Education Elective[3]	3		General Education Elective[3]	3	
Technical Elective[5]	3		Free Elective	3	
Total credits	*15*		*Total credits*	*15*	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
Engineering Science Elective[4]	3		Engineering Science Elective[4] (2XX)	3	
Engineering Science Elective[4] (2XX)	3		Engineering Science Elective[4] (2XX)	3	
Technical Elective[5]	3		Technical Elective[5]	3	
Technical Elective[5]	3		Free Elective	3	
CE/ME 185 or BME/EE 187 - Capstone Design[6]	3		CE/ME 186 or BME/EE 188 - Capstone Design[6]	3	
Total credits	*15*		*Total credits*	*15*	

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/