BACHELOR OF SCIENCE IN ENGINEERING

Catalogue
2022-2023

Student:	Date:
netID:	Advisor:

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
CHEM 1400 - General Chemistry I	4		BME 1600, CE 1000, EE 1100, or ME 1010 - First Year Design Experience	2	
WIL: (ENGL 1001, HCOL 1000)[1]	3		PHYS 1500 - Physics for Engineers I	4	
ENGR 1020 - Graphical Communication	2		PHYS 1510 - Prob. Solv. Session I [Optional]	[1]	
CEMS 1500 - CEMS First Year Seminar	1		QD: MATH 1248 - Calculus II	4	
General Education Elective[1] (Humanities)	3		QD: CS 1210 - Computer Programming I[1]	3	
QD: MATH 1234 - Calculus I	4		Free Elective	3	
Total credits	*17*		*Total credits*	*16-17*	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
EE 2125, EE 2175, or EE 2145	4		Diversity 1 or 2[1] (D1/D2)	3	
General Education Elective[1] (Social Science)	3		ME 1210 - Thermodynamics	3	
CE 1100 - Statics	3		QD: MATH 2544 - Linear Algebra	3	
QD: MATH 2248 - Calculus III	4		QD: MATH 3201 - Adv Engineering Mathematics	3	
PHYS 1550 - Physics for Engineers II	3		QD: STAT 2430 Statistics for Engineers or	3	
PHYS 1560 - Prob. Solv. Session II [Optional]	[1]		QD: STAT 2510 Applied Probability		
Total credits	*17-18*		*Total credits*	*15*	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
Engineering Science Elective[2]	3		Engineering Science Elective[2]	3	
Engineering Science Elective[2]	3		Engineering Science Elective[2]	3	
Engineering Science Elective[2]	3		Engineering Science Elective[2]	3	
Diversity 1[1] (D1)	3		Technical Elective[3]	3	
Technical Elective[3]	3		General Education Elective[1] (SU)	3	
Total credits	*15*		*Total credits*	*15*	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
Engineering Science Elective[2]	3		Engineering Science Elective[2] (2XX)	3	
Engineering Science Elective[2] (2XX)	3		Engineering Science Elective[2] (2XX)	3	
Technical Elective[3]	3		Technical Elective[3]	3	
CE 2130, ME 4010, BME 4600, or EE 4100 - Capstone Design[4]	3		CE 4950, ME 4020, BME 4650, or EE 4200 - Capstone Design[4]	3	
Free Elective	3				
Total credits	*15*		*Total credits*	*12*	

Minimum Total Credits Required for Degree: 122

Ultilize degree audit or re-numbering widget (bit.ly/UVMWidget) to confirm courses.

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 1100). 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 2130 & 4950 or EE 4100 & 4200 or ME 4010 & 4020.

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/