

BACHELOR OF SCIENCE IN ENGINEERING

Catalogue

Student: _____

Date: _____

2020-2021

netID: _____

Advisor: _____

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
CHEM 1400 - General Chemistry I	4		BME 1600/CE 1000/EE 1100/ME 1010 - First Year Design Experience ²	2	
FWIL (ENGS 1001/HCOL 1000) ¹	3		PHYS 1500 - Physics for Engineers I	4	
ENGR 1020 - Graphical Communication	2		PHYS 1510 - Prob. Solv. Session I [opt]	[1]	
CEMS 1500 - CEMS First Year Seminar ²	1		MATH 1248 - Calculus II	4	
General Education Elective ³	3		Diversity 1 or 2 ³	3	
MATH 1234 - Calculus I	4		CS 1210 - Computer Programming I (QR)	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 2125/ EE 2175 / EE 2145	4		CEE 1100 - Statics	3	
Free Elective	3		ME 1210 - Thermodynamics	3	
Diversity 1 ³	3		MATH 2544 - Linear Algebra	3	
MATH 2248 - Calculus III	4		MATH 3201 - Adv. Engineering Mathemaics	3	
PHYS 1550 - Physics for Engineers II	3		STAT 2430 Statistics for Engineers or	3	
PHYS 1560 - Prob. Solv. Session II [opt]	[1]		STAT 2510 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 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	
<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 ⁴	3		Engineering Science Elective ⁴ (3xxx)	3	
Engineering Science Elective ⁴ (3xxx)	3		Engineering Science Elective ⁴ (3xxx)	3	
Technical Elective ⁵	3		Technical Elective ⁵	3	
Technical Elective ⁵	3		CME 4020 or EE 4200 - Capstone Design ⁶	3	
ME 4010 or EE 4100 - Capstone Design ⁶	3				
<i>Total credits</i>	<i>15</i>		<i>Total credits</i>	<i>12</i>	

Minimum Total Credits Required for Degree: 122

- University General Education Requirements include: (1) 3 credits of Foundational Writing & Information Literacy (FWIL). Students must take 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
- First Year Curriculum: These degree requirements are designed for first-year students. Internal and external transfer students may substitute additional 100-level or higher engineering (BME, CE, EE, ENGR, ME, EMGT) credits for this requirement.
- Required General Education (GenEd) Electives: 9 credits of approved GenEd electives.
- 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.
- 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.
- Capstone Design I and II courses must have the same course 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 2020-2021 found at <http://catalogue.uvm.edu/>