

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Catalogue

Student: _____

Date: _____

2021-2022

netID: _____

Advisor: _____

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
CEMS 050 - CEMS First Year Seminar	1		EE 001 - EE Principles & Design	2	
CHEM 031 - General Chemistry I	4		General Education Elective ¹ (Humanities)	3	
ENGR 002 - Graphical Comm [Optional]	[2]		Diversity 1 or 2 ¹ (D1/D2)	3	
FWIL (ENGS 001, TAP, HCOL 085) ¹	3		QR: MATH 022 - Calculus II	4	
QR: CS 021 - Computer Programming I	3		MATH 120 - Eng Math Linear Algebra Lab	1	
QR: MATH 021 - Calculus I	4		PHYS 030 - Prob Solv Session I [Opt]	[1]	
			PHYS 031 - Physics for Engineers I	4	
Total credits	15-17		Total credits	17-18	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
CE 005 (preferred) or CE 001 - Statics	3		QR: STAT 151 - Applied Probability	3	
EE 020 - Circuits I	4		EE 021 - Circuits II	4	
Diversity 1 ¹ (D1)	3		EE 084 - Circuits Design Project	2	
QR: MATH 121 - Calculus III	4		EE 131 - Fundamentals of Digital Design	3	
PHYS 125 - Physics for Engineers II	3		QR: MATH 271 - Appl. Math. for Engr. & Sci.	3	
PHYS 123 - Prob. Solv. Session II [Optional]	[1]				
Total credits	17-18		Total credits	15	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
EE 120 - Electronics I	4		EE 110 / 113 / 121 / 134 / 174 ²	4	
EE 141 - Electromagnetic Field Theory	4		EE 110 / 113 / 121 / 134 / 174 ²	4	
EE 171 - Signals & Systems	4		EE 110 / 113 / 121 / 134 / 174 ²	4	
EE 183 - Electronics Laboratory	2		EE 180 - Engineering Ethics/Leadership ⁶	1	
General Education Elective ¹ (Social Science)	3		EE 184 - Electronics Design Project	3	
Total credits	17		Total credits	16	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
EE 187 - Capstone Design I	3		EE 188 - Capstone Design II	3	
EE Elective ³	3		EE Elective ³ (2XX)	3	
EE Elective ³ (2XX)	3		EE Elective ³ (2XX)	3	
EMGT 170 - Engineering Economics	3		General Education Elective ¹ (SU)	3	
Free Elective	3		Free Elective	3	
Total credits	15		Total credits	15	

Minimum Total Credits Required for Degree: 127

- 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>).
- Students are required to take three of these five courses. If a student takes more than three of these courses, one course may count as an EE Elective (see footnote 6).
- EE Electives: [EE 192](#), [EE 193](#), [EE 194](#), [EE 195](#), [EE 198](#) and all 200-level, 3-4 credit EE courses. At least 9 credits must be at the 200-level or above. Four distinct 3-4 credit EE electives are required. EE Elective requirement may not be met by taking three 4 credit courses.

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 2021-2022 found at <http://catalogue.uvm.edu/>