

**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING - HONORS COLLEGE**

**Catalogue**

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

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

**2022-2023**

**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 <sup>1</sup> (Humanities)	3	
ENGR 002 - Graphical Comm [Optional]	[2]		HCOL 086 (D1/2) <sup>1</sup> - HCOL Seminar	3	
FWIL (HCOL 085 - Seminar) <sup>1</sup>	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	
<i>Total credits</i>	<i>15-17</i>		<i>Total credits</i>	<i>17-18</i>	

**Year 2**

Semester 1	Cr	Status	Semester 2	Cr	Status
CE 006 - Applied Mechanics	3		HCOL 186 (SU) <sup>1</sup> - HCOL Seminar	3	
EE 020 - Circuits I	4		EE 021 - Circuits II	4	
HCOL 185 (D1) <sup>1</sup> - HCOL Seminar	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]				
<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
EE 120 - Electronics I	4		EE 110 / 113 / 121 / 134 / 174 <sup>2</sup>	4	
EE 141 - Electromagnetic Field Theory	4		EE 110 / 113 / 121 / 134 / 174 <sup>2</sup>	4	
EE 171 - Signals & Systems	4		EE 110 / 113 / 121 / 134 / 174 <sup>2</sup>	4	
EE 183 - Electronics Laboratory	2		EE 180 - Engineering Ethics/Leadership <sup>6</sup>	1	
QR: STAT 151 - Applied Probability	3		EE 184 - Electronics Design Project	3	
CEMS 101 - HCOL Research Experience	1		CEMS 102 - HCOL Research Experience	1	
<i>Total credits</i>	<i>18</i>		<i>Total credits</i>	<i>17</i>	

**Year 4**

Semester 1	Cr	Status	Semester 2	Cr	Status
EE 187 - Capstone Design I	3		EE 188 - Capstone Design II	3	
EE Elective <sup>3</sup> (EE 193 - Thesis)	3		EE 194 - Thesis	3	
EE Elective <sup>3</sup> (2XX)	3		EE Elective <sup>3</sup> (2XX)	3	
EMGT 170 - Engineering Economics	3		EE Elective <sup>3</sup> (2XX)	3	
General Education Elective <sup>1</sup> (Social Science)	3		Free Elective	3	
<i>Total credits</i>	<i>15</i>		<i>Total credits</i>	<i>15</i>	

**Minimum Total Credits Required for Degree: 127**

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. 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).
3. 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 2022-2023 found at <http://catalogue.uvm.edu/>**