BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING - Honors College

Catalogue
2019-2020

Student: _____   Date: _____

netID: _____   Advisor: _____

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
ENGR 002 - Graphical Communications	2		EE 001 - First Year Design Experience[2]	2	
CHEM 031 - General Chemistry I	4		PHYS 031 - Physics for Engineers I	4	
HCOL 085 - Pursuit of Knowledge[1]	3		PHYS 030 - Prob. Solv. Session I [opt]	[1]	
MATH 021 - Calculus I	4		MATH 022 - Calculus II	4	
ENGR 050 - First Year Engr Seminar[2]	1		CS 020 - Programming for Engineers	3	
Free Elective[4]	3		HCOL 086 - First Yr Sem. (Diversity 1/2)[3]	3	
Total credits	*17*		*Total credits*	*16-17*	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
EE 003 - Linear Circuit Analysis	3		EE 004 - Linear Circuit Analysis II	3	
EE 081 - Linear Circuits Lab	2		EE 082 - Linear Circuits Lab II	2	
MATH 121 - Calculus III	4		MATH 271 - Appl. Math. for Engr. & Sci.	3	
PHYS 125 - Physics for Engineers II	3		EE 134 - Microcontroller Systems	4	
PHYS 123 - Prob. Solv. Session II [opt]	[1]		MATH 122 - Applied Linear Algebra	3	
EE 106 - Embedded Programming in C	2		HCOL 186 - Soph Sem.	3	
HCOL 185 - Soph. Sem. (Diversity 1)[3]	3				
Total credits	*17-18*		*Total credits*	*18*	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
EE 120 - Electronics I	4		EE 110 / 113 / 121 / 174[7]	4	
STAT 151 - Applied Probability	3		EE 110 / 113 / 121 / 174[7]	4	
EE 171 - Signals & Systems	4		EE 110 / 113 / 121 / 174[7]	4	
EE 183 - Electronics Laboratory	2		EE 184 - Electronics Design Project	3	
EE 131 - Fundamentals of Digital Design	3		EE 180 - Engineering Ethics/Leadership[6]	1	
			CEMS 101 - HCOL Research Exp.	1	
Total credits	*16*		*Total credits*	*17*	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
EE 193 - Honors Thesis	3		EE Elective[5] (2XX)	3	
EE Elective[5] (2XX)	3		EE Elective[5] (2XX)	3	
EE 187 - Capstone Design I	3		EE 188 - Capstone Design II	3	
EE 141 - Electromagnetic Field Theory	4		CE 194 - Honors Thesis	3	
Total credits	*13*		*Total credits*	*12*	

Minimum Total Credits Required for Degree: 124

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. ENGR 050 & EE 001 are degree requirements designed for first-year students. Internal and external transfer students may substitute 100-level or higher engineering (BME, CE, EE, ENGR, ME) credits for these requirements.

3. Students must take one three-credit D1 course and a second three-credit D1 or D2 course, per University Diversity Requirement.

4. Free Electives: Students may use free elective credits to pursue coursework germane to their interests. Students are encouraged to work with their advisor(s) to select courses that complement their curricula and support their academic and career goals. Students should select one course that meets the University Sustainability Requirement (SU) if they have not taken an SU engineering course.

5. EE Electives: EE 193; EE 194; 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).

6. EE 180 meets the EE Ethics & Leadership Requirement. Students may pursue a documented, pre-approved substitution (to take ethics/leadership coursework in disciplines such as Philosophy, Business and Military Studies) or waiver (to satisfy this requirement through ethics/leadership-related non-course university activities).

7. A student must take 3 of the following courses - EE 110, EE 113, EE 121, EE 174. If a student takes all four courses, one course counts as an EE Elective.

N.B. The University's Quantitative Reasoning (QR) requirement is built into the Electrical Engineering curriculum.

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/