

Student: _____

Date: _____

netID: _____

Advisor: _____

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
CEMS 050 - CEMS First Year Seminar	1		BME 010 - BME Design 0	2	
CHEM 031 - General Chemistry I	4		BHSC 034 - Human Cell Biology	4	
ENGR 002 - Graphical Communication	2		QR: MATH 022 - Calculus II	4	
FWIL (HCOL 085 - Seminar) ¹	3		MATH 120 - Eng Math Linear Algebra Lab	1	
QR: CS 021 - Computer Programming I	3		PHYS 030 - Prob Solv Session I [Optional]	[1]	
QR: MATH 021 - Calculus I	4		PHYS 031 - Physics for Engineers I	4	
			HCOL 086 (D1/2) ¹ - HCOL Seminar	3	
<i>Total credits</i>	17		<i>Total credits</i>	18-19	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
ANPS 019 - Human Anatomy & Physiology	4		ANPS 020 - Human Anatomy & Physiology	4	
BME 011 - Core 1: Biomechanics & Sensing	6		BME 012 - Core 2: Materials & Transport	6	
BME 013 - BME Design 1	1		BME 014 - BME Design 2	1	
QR: MATH 121 - Calculus III	4		HCOL 186 (SU) ¹ - HCOL Seminar	3	
HCOL 185 (D1) ¹ - HCOL Seminar	3		QR: MATH 271 - Adv Engineering Mathematics	3	
<i>Total credits</i>	18		<i>Total credits</i>	17	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
BME 111 - Core 3: Systems & Signals	6		General Education Elective ¹ (Social Science)	3	
BME 112 - BME Design 3	2		BME Engineering Elective ² (BME 2XX)	3	
Math/Science Elective ⁴	3		Math/Science Elective ⁴	3	
QR: STAT 143 - Statistics for Engineering	3		BME Specialization Elective ³ (2XX)	3	
Free Elective	3		Free Elective	3	
			CEMS 101 - HCOL Research Experience	1	
<i>Total credits</i>	17		<i>Total credits</i>	16	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
General Education Elective ¹ (Humanities)	3		BME Specialization Elective ³ (2XX)	3	
BME Specialization Elective ³ (2XX)	3		BME Specialization Elective ³ (BME 194) Thesis	3	
BME 185 - BME Capstone Design I	3		BME 186 - BME Capstone Design II or BME 2XX	3	
BME Engineering Elective ² (BME 2XX)	3		BME Engineering Elective ² (BME 2XX)	3	
BME Engineering Elective ² (BME 193) Thesis	3				
<i>Total credits</i>	15		<i>Total credits</i>	12	

Minimum Total Credits Required for Degree: 129

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. BME Engineering Elective: Any engineering course at the 0XX or higher level. At least 9 credits must be BME courses at the 200-level or above.
3. BME Specialization Elec: ENGR, MATH/STAT, CS, physical or life science courses at the 100-level or above. At least 9 credits must be at the 200-level or above.
4. Math/Science Elec: Any MATH, STAT, CHEM, PHYS, BIOL, BHSC or other science course that has a prerequisite of one of the foundational math or science 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/>