BACHELOR OF SCIENCE IN BIOMEDICAL ENGINEERING

Catalogue 2022-2023

Student: **Date:**

netID: **Advisor:**

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
CEMS 1500 - CEMS First Year Seminar	1		BME 1600 - BME Design 0	2	
CHEM 1400 - General Chemistry I	4		BHSC 1340 - Human Cell Biology	4	
ENGR 1020 - Graphical Communication	2		QD: MATH 1248 - Calculus II	4	
WIL: (ENGL 1001, HCOL 1000)[1]	3		MATH 2500 - Eng Math Linear Algebra Lab	1	
QD: CS 1210 - Computer Programming I	3		PHYS 1510 - Prob Solv Session I [Optional]	[1]	
QD: MATH 1234 - Calculus I	4		PHYS 1500 - Physics for Engineers I	4	
Total credits	*17*		*Total credits*	*15-16*	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
ANPS 1190 - Human Anatomy & Physiology	4		ANPS 1200 - Human Anatomy & Physiology	4	
BME 2000 - Core 1: Biomechanics & Sensing	6		BME 2050 - Core 2: Materials & Transport	6	
BME 2600 - BME Design 1	1		BME 2650 - BME Design 2	1	
QD: MATH 2248 - Calculus III	4		Diversity 1[1] (D1)	3	
QD: STAT 2430 - Statistics for Engineering	3		QD: MATH 3201 - Adv Engineering Mathematics	3	
Total credits	*18*		*Total credits*	*17*	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
BME 3000 - Core 3: Systems & Signals	6		General Education Elective[1] (Social Science)	3	
BME 3600 - BME Design 3	2		BME Engineering Elective[2] (BME 2XX)	3	
BME Engineering Elective[2]	3		BME Specialization Elective[3] (1XX)	3	
Diversity 1 or 2[1] (D1/D2)	3		BME Specialization Elective[3] (2XX)	3	
General Education Elective[1] (SU)	3		Free Elective	3	
Total credits	*17*		*Total credits*	*15*	

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		Free Elective	3	
BME 4600 - BME Capstone Design I	3		BME 4650 - BME Capstone Design II or BME 2XX	3	
BME Engineering Elective[2] (BME 2XX)	3		BME Engineering Elective[2] (BME 2XX)	3	
Math/Science Elective[4]	3		Math/Science Elective[4]	3	
Total credits	*15*		*Total credits*	*15*	

Minimum Total Credits Required for Degree: 129

Ultilize degree audit or re-numbering widget (bit.ly/UVMWidget) to confirm courses.

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 2022-2023 found at http://catalogue.uvm.edu/