BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING **Catalogue 2022-2023**

Student: **Date:**

netID: **Advisor:**

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
ENGR 1020 - Graphical Communication	2		QD: CS 1210 - Computer Programming I	3	
CHEM 1400 - General Chemistry I	4		PHYS 1500 - Physics for Engineers I	4	
WIL: (ENGL 1001, HCOL 1000)[1]	3		PHYS 1510 - Prob. Solv. Session I [Optional]	[1]	
QD: MATH 1234 - Calculus I	4		QD: MATH 1248 - Calculus II	4	
General Education Elective[1]	3		ME 1010 - First Year Design Experience	2	
CEMS 1500 - CEMS First Year Seminar [Optional]	[1]		ME 1310 - Intro. to Robotics [Optional]	[1]	
			Diversity 1 or 2[1] (D1/D2)	3	
Total credits	*16-17*		*Total credits*	*16-18*	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
CEE 1100 - Statics	3		ME 1120 - Dynamics	3	
ME 1210 - Thermodynamics	3		SU: ME 1220 - Applied Thermodynamics	3	
QD: MATH 2248 - Calculus III	4		QD: MATH 3201 - Adv Engineering Mathematics	3	
PHYS 1550 - Physics for Engineers II	3		ME 1140 - Mechanics of Solids	3	
PHYS 1560 - Prob. Solv. Session II [Optional]	[1]		QD: MATH 2522 or 2544 - (Applied) Linear Algebra	3	
ME 1020 - Mech. Engr. Shop Experience	1		ME 1510 - Computational Mech. Engr. Lab	1	
Diversity 1[1] (D1)	3				
Total credits	*17-18*		*Total credits*	*16*	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
ME 2120 - System Dynamics	3		ME 2240 - Heat Transfer	3	
ME 2230 - Fluid Mechanics	3		ME 2310 - Design of Elements	3	
ME 2110 - Materials Engineering	3		QD: STAT 2430 - Statistics for Engineers	3	
EE 2145 - Electrical Engr. Concepts I	4		EE 2845 - Digital Control w/ Embedded Systems	4	
ME 2231 - Thermo-Fluid Lab **OR** ME 2111 - Materials and Mechanics Lab	2		ME 2231 - Thermo-Fluid Lab **OR** ME 2111 - Materials and Mechanics Lab	2	
Total credits	*15*		*Total credits*	*15*	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
ME 4010 - Capstone Design I	3		ME 4020 - Senior Design Project II	3	
Mechanical Engineering Elective[2]	3		Mechanical Engineering Elective[2]	3	
Mechanical Engineering Elective[2]	3		Mechanical Engineering Elective[2]	3	
Technical Elective[3]	3		Technical Elective[3]	3	
General Education Elective[1] (Social Science)	3		General Education Elective[1] (Humanities)	3	
Total credits	*15*		*Total credits*	*15*	

Minimum Total Credits Required for Degree: 125

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. ME Electives: ME 3390 and all 200-level (or above) ME courses except ME 3994, 3995, and 3899.
3. Technical Electives: All 100-level (or higher) courses in BME, CE, EE, ENGR, ME, CS, CSYS, MATH, ASTR, BIOC, BIOL, CHEM, GEOL, MMG & PHYS; STAT 2510 or higher.

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/