

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Catalogue

2021-2022

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	[1]		ME 1310 - Intro. to Robotics [Optional]	[1]	
			Diversity 1 or 2 ¹ (D1/D2)	3	
<i>Total credits</i>	<i>16-17</i>		<i>Total credits</i>	<i>16-18</i>	

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		QR: MATH 3201 - Appl Math for Engr & Sci	3	
PHYS 1550 - Physics for Engineers II	3		ME 1140 - Mechanics of Solids	3	
	[1]		QR: MATH 2522 or 2544 - (Applied) Linear Algebra	3	
PHYS 1560 - Prob. Solv. Session II [Optional]			ME 1510 - Computational Mech. Engr. Lab	1	
ME 1020 - Mech. Engr. Shop Experience	1				
Diversity 1 ¹ (D1)	3				
<i>Total credits</i>	<i>17-18</i>		<i>Total credits</i>	<i>16</i>	

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		QR: 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 2231 - Thermo-Fluid Lab OR		
ME 2111 - Materials and Mechanics Lab	2		ME 2111 - Materials and Mechanics Lab	2	
<i>Total credits</i>	<i>15</i>		<i>Total credits</i>	<i>15</i>	

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	
<i>Total credits</i>	<i>15</i>		<i>Total credits</i>	<i>15</i>	

Minimum Total Credits Required for Degree: 125

****Utilize 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 (QD) and Foundational Writing & Information Literacy (WIL). 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 (or above) ME courses except ME 3994, 3995, and 3999
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 2021-2022 found at <http://catalogue.uvm.edu/>