BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Catalogue

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Student:			Date:	2021-2022	
netID:	<u> </u>		Advisor:		
Year 1					
Semester 1	Cr	Status	Semester 2	Cr	Status
ENGR 002 - Graphical Communication	2		QR: CS 021 - Computer Programming I	3	
CHEM 031 - General Chemistry I	4		PHYS 031 - Physics for Engineers I	4	
FWIL (ENGS 001, TAP, HCOL 085) ¹	3		PHYS 030 - Problem Solving Session I [Optional]	[1]	
QR: MATH 021 - Calculus I	4		QR: MATH 022 - Calculus II	4	
General Education Elective ¹	3		ME 001 - First Year Design Experience	2	
CEMS 050 - CEMS First Year Seminar [Optional]	[1]		ME 003 - 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
CE 001 - Statics	3		ME 012 - Dynamics	3	

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SU: ME 042 - Applied Thermodynamics

ME 014 - Mechanics of Solids

QR: MATH 271 - Appl Math for Engr & Sci

ME 083 - Computational Mech. Engr. Lab

QR: MATH 122 or 124 - (Applied) Linear Algebra

Year 3

Diversity 1¹ (D1)

Total credits

ME 040 - Thermodynamics

QR: MATH 121 - Calculus III

PHYS 125 - Physics for Engineers II

ME 081 - Mech. Engr. Shop Experience

PHYS 123 - Problem Solving Session II [Optional]

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Semester 1	Cr	Status	Semester 2	Cr	Status		
ME 111 - System Dynamics	3		ME 144 - Heat Transfer	3			
ME 143 - Fluid Mechanics	3		ME 171 - Design of Elements	3			
ME 101 - Materials Engineering	3		QR: STAT 143 - Statistics for Engineers	3			
EE 100 - Electrical Engr. Concepts I	4		EE 101 - Digital Control w/ Embedded Systems	4			
ME 123 - Thermo-Fluid Lab OR	2		ME 123 - Thermo-Fluid Lab OR ME	2			
ME 124 - Materials and Mechanics Lab	2		124 - Materials and Mechanics Lab	2			
Total credits	15		Total credits	15			

Total credits

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
ME 185 - Capstone Design I	3		ME 186 - 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

- 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 161 and all 200-level (or above) ME courses except ME 297, 298, and 299
- 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 151 or higher; CS 020.

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/