BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Catalogue

16-18

Student:	_		Date:	2020-2021	
netID:	<u> </u>		Advisor:		
Year 1					
Semester 1	Cr	Status	Semester 2	Cr	Status
ENGR 1020 - Graphical Communication	2		CS 1210 - Computer Programming I (QR)	3	
CHEM 1400 - General Chemistry I	4		PHYS 1500 - Physics for Engineers I	4	
WIL (ENGS 1001/HCOL 1000) ¹	3		PHYS 1510 - Problem Solving Session I [opt]	[1]	
MATH 1234 - Calculus I	4		MATH 1248 - Calculus II	4	
General Education Elective ³	3		ME 1010 - First Year Design Experience ²	2	
CEMS 1500 - CEMS First Year Seminar ¹ [Opt]	[1]		ME 1310 - Intro. to Robotics [Opt]	[1]	
			Diversity 1 or 2 ³	3	

16-17

Total credits

Year 2

Total credits

Semester 1	Cr	Status	Semester 2	Cr	Status
CE 1100 - Statics	3		ME 1120 - Dynamics	3	
ME 1210 - Thermodynamics	3		ME 1220 - Applied Thermodynamics (SU)	3	
MATH 2248 - Calculus III	4		MATH 3201 - Appl Math for Engr & Sci	3	
PHYS 1550 - Physics for Engineers II	3		ME 1140 - Mechanics of Solids	3	
PHYS 1560 - Problem Solving Session II [opt]	[1]		MATH 2524 - Linear Algebra or MATH 2522 - Applied Linear Algebra	3	
ME 1020 - Mech. Engr. Shop Experience	1		ME 1510 - Computational Mech. Engr. Lab	1	
Diversity 1 ³	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		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	2		ME 2231 - Thermo-Fluid Lab OR	2	
2111 - Materials and Mechanics Lab			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 ⁴	3		Mechanical Engineering Elective ⁴	3	
Mechanical Engineering Elective ⁴	3		Mechanical Engineering Elective ⁴	3	
Technical Elective ⁵	3		Technical Elective ⁵	3	
General Education Elective ³	3		General Education Elective ³	3	
Total credits	15		Total credits	15	

Minimum Total Credits Required for Degree: 125

- 1. Foundational Writing and Information Literacy (FWIL) is a University requirement. Students must take either ENGS 001 or HCOL 085 (only for students enrolled in the Honors College). Students transferring from the College of Arts and Sciences can use a TAP class to fulfill this requirement.
- 2. First Year Design Experience: ME 001 is a degree requirement designed for first-year students. Internal and external transfer students may substitute 100-level or higher engineering (BME, CE, EE, ENGR, ME) credits for this requirement.
- 3. ME General Education Electives: 9 credits of approved general education electives.
- 4. ME Electives: ME 161 and all 200-level (or above) ME courses.
- 5. 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.

N.B. The University's Sustainability (SU) and Quantitative Reasoning (QR) requirements are built into the Mechanical Engineering curriculum.

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 2020-2021 found at http://catalogue.uvm.edu/