BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING					Catalogue	
Student:	_		Date:		24 - 2025	
netID:	_		Advisor:			
Year 1						
Semester 1	Cr	Status	Semester 2	Cr	Status	
MA: MATH 1234 - Calculus I*	4		MA: MATH 1248 - Calculus II* MATH 1234	4		
			N2, QD: PHYS 1500 - Physics for Engineers I			
ENGR 1020 - Graphical Communication	2		MATH 1234	4		
N2, QD: CHEM 1400 - General Chemistry 1	4		PHYS 1510 - Physics Problem Solving I [Optional]	[1]		
Catamount Core (WIL1): ENGL 1001 - Written Expression	3		ME 1010 - First-Year Design Experience	2		
Catamount Core (D1 Diversity 1)	3		QD: CS 1210 - Computer Programming I	3		
CEMS 1500 - CEMS First Year Seminar [Optional]	[1]		Catamount Core (AH Arts & Humanities)	3		
			ME 1310 - Intro to Robotics and Coding [Optional]	[1]		
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		
MATH 1248; PHYS 1500 MA: MATH 2248 - Calculus III	3		ME 1140 - Mechanics of Solids	3		
MATH 1248	4		CEE 1100	3		
ME 1210 - Thermodynamics*			MA: MATH 2522 - Applied Linear Algebra MATH 1248			
MATH 1248; PHYS 1500; CHEM 1400	3		OR MA: MATH 2544 - Linear Algebra	3		
N1, QD: PHYS 1550 - Physics for Engineers II	3		MATH 1248; Pre/Coreq: MATH 2248 MATH 3201 - Adv Engineering Mathematics			
PHYS 1500; MATH 1248; Coreq: MATH 2248	3		MATH 2248; Coreq: MATH 2522 or MATH 2544	3		
PHYS 1560 - Physics Problem Solving II [Optional]	[1]		SU: ME 1220 - Applied Thermodynamics ME 1210	3		
ME 1020 - Engineering Shop Experience ENGR 1020	1		ME 1510 - Computational Mech Engr Lab CEE 1100; Coreq: ME 1140	1		
Catamount Core (AH Arts & Humanities)	3					
Total credits	17-18		Total credits	16		
Year 3						
Semester 1	Cr	Status	Semester 2	Cr	Status	
ME 2230 - Fluid Mechanics	3		ME 2240 - Heat Transfer	3		
ME 1120; ME 1140; ME 1210; MATH 3201 ME 2120 - System Dynamics	+ -		ME 2310 - Design of Elements	+		
ME 1120; Pre/Coreq: MATH 2522 or MATH 2544	3		ME 1140	3		
ME 2231 - Thermo-Fluid Lab ME 1120; ME 1140; ME 1210; MATH 3201; Pre/Coreq: ME 2230			ME 2231 - Thermo-Fluid Lab ME 1120; ME 1140; ME 1210; MATH 3201; Pre/Coreq: ME 2230			
OR ME 2111 - Materials and Mechanics Lab			OR ME 2111 - Materials and Mechanics Lab			
ME 1140; Pre/Coreq: ME 2110	2	ļ	ME 1140; Pre/Coreq: ME 2110	2		
ME 2110 - Materials Engineering ME 1140	3		QD: STAT 2430 - Statistics for Engineering MATH 1234	3		
EE 2145 - Electrical Engr Concepts	4		EE 2845 - Digital Control w/ Embedded Sys	4		
MATH 1248 Total credits	15		EE 2145; CS 1210 Total credits	15		
Year 4					<u> </u>	
Semester 1	Cr	Status	Semester 2	Cr	Status	
ME 4010 - Capstone Design I		1	ME 4020 - Capstone Design II			
Mechanical Engineering Elective	3		ME 4010 Mechanical Engineering Elective	3	-	
Mechanical Engineering Elective	3		Mechanical Engineering Elective	3		
Technical Elective	3		Technical Elective	3		

Minimum Total Credits Required for Degree: 128

3

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 2024-2025 found at http://catalogue.uvm.edu/

Total credits

3

15

Catamount Core (S1 Social Science)

Catamount Core (S1 Social Science AND D1/D2)

Total credits

Prerequisite courses are listed below the course name in italics. Prerequisites listed are only for courses, as relevant to your specific degree program, and may have other registration restrictions. Please refer to the catalogue.

* Grade of C- or higher required

Mechanical Engineering Elective: All 3 credit 3000-level ME courses (except ME 3994, ME 3995 and ME 3899). All 3 credit 5000-level ME courses.

Technical Elective: All 2000-level (or higher) courses in BME, CEE, EE, EMGT, ENGR, ME, CS, CSYS, MATH, ASTR, BIOC, BIOL, CHEM, GEOL, MMG & PHYS; STAT 2510 or higher.

<u>Catamount Core:</u> Students may take courses that fulfill more than one Catamount Core requirement, but they must still take at least 40 unique credits of courses that have been approved to fulfill Catamount Core requirements.