BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING - Ho	onors Coll	ege		C	atalogue
Student:			Date:	202	23 - 2024
netID:	_		Advisor:	_	
Year 1	_			_	
Semester 1	Cr	Status	Semester 2	Cr	Status
MA: MATH 1234 - Calculus I*	4		MA: MATH 1248 - Calculus II*	4	
ENGR 1020 - Graphical Communication	2		N2, QD: PHYS 1500 - Physics for Engineers I MATH 1234	4	
N2, QD: CHEM 1400 - General Chemistry 1	4		PHYS 1510 - Physics Problem Solving I [Optional]	[1]	
Catamount Core (WIL1): HCOL 1000 - FY Writing Seminar	3		ME 1010 - First-Year Design Experience	2	
Catamount Core	3		QD: CS 1210 - Computer Programming I	3	
CEMS 1500 - CEMS First Year Seminar [Optional]	[1]		HCOL 1500 - FY Research Presentation Sem	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			ME 1140 - Mechanics of Solids		
MATH 1248	4		CEE 1100  MA: MATH 2522 - Applied Linear Algebra	3	<u> </u>
ME 1210 - Thermodynamics*			MATH 1248		
MATH 1248; PHYS 1500; CHEM 1400	3		OR MA: MATH 2544 - Linear Algebra  MATH 1248; Pre/Coreq: MATH 2248	3	
N1, QD: PHYS 1550 - Physics for Engineers II	3		MATH 3201 - Adv Engineering Mathematics	3	
PHYS 1500; MATH 1248; Coreq: MATH 2248  PHYS 1560 - Physics Problem Solving II [Optional]			MATH 2248; Coreq: MATH 2522 or MATH 2544 SU: ME 1220 - Applied Thermodynamics		
ME 1020 - Engineering Shop Experience	[1]		ME 1510 - Computational Mech Engr Lab	3	
ENGR 1020	1		CEE 1100; Coreq: ME 1140	1	
HCOL 2000 - Sophomore Seminar	3		HCOL 2000 - Sophomore Seminar	3	
Total credits	17-18		Total credits	19	
Year 3	1		T	1	1
Semester 1	Cr	Status	Semester 2	Cr	Status
ME 2230 - Fluid Mechanics ME 1120; ME 1140; ME 1210; MATH 3201	3		ME 2240 - Heat Transfer ME 2230	3	
ME 2120 - System Dynamics	3		ME 2310 - Design of Elements	3	
ME 1120; Pre/Coreq: MATH 2522 or MATH 2544  ME 2231 - Thermo-Fluid Lab	+ -		ME 2231 - Thermo-Fluid Lab	1	
ME 1120; ME 1140; ME 1210; MATH 3201; Pre/Coreq: ME 2230			ME 1120; ME 1140; ME 1210; MATH 3201; Pre/Coreq: ME 2230		
OR ME 2111 - Materials and Mechanics Lab  ME 1140; Pre/Coreq: ME 2110	2		OR ME 2111 - Materials and Mechanics Lab  ME 1140; Pre/Coreg: ME 2110	2	
ME 2110 - Materials Engineering	3		QD: STAT 2430 - Statistics for Engineering	3	
ME 1140 EE 2145 - Electrical Engr Concepts			MATH 1234 EE 2845 - Digital Control w/ Embedded Sys		
MATH 1248	4		EF 2145; CS 1210	4	
CEMS 2010 - HCOL Research Experience	1		CEMS 2020 - Research Thesis Proposal	1	-
Total credits Year 4	16		Total credits	16	

Semester 1	Cr	Status	Semester 2	Cr	Status			
ME 4010 - Capstone Design I	3		ME 4020 - Capstone Design II ME 4010	3				
Mechanical Engineering Elective	3		Mechanical Engineering Elective	3				
Mechanical Engineering Elective	3		Mechanical Engineering Elective	3				
Technical Elective (Honors Thesis)	3		Technical Elective (Honors Thesis)	3				
Catamount Core	3		Catamount Core	3				
Total credits	15		Total credits	15				

Minimum Total Credits Required for Degree: 128

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 2023-2024 found at http://catalogue.uvm.edu/

**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.

Students are encouraged to overlap Catamount Core requirements with their PLHC required courses (HCOL 1500 and both HCOL 2000 courses)