MECHANICAL ENGINEERING PROGRAM
COLLEGE OF ENGINEERING
UNIVERSITY OF MASSACHUSETTS DARTMOUTH
Catalog Years 2018-19 (Class of 2022) and beyond

FRESHMAN YEAR

First Semester			R	L	C
ENL	101	Critical Writing & Reading I	3	0	3
CHM	151	Prin. Mod. Chemistry I[1]	3	0	3
CHM	161	Intro. Appl. Chem. Lab	1	2	1
EGR	111	Intro. To Eng. & Computing	3	2	3
MTH	153	Calculus Appl Science & Eng. I	4	0	4
		University Studies Requirement[2]	3	0	3
					17

			R	L	C
ENL	102	Critical Writing & Reading II	3	0	3
MNE	101	Intro to Mech. Eng.	2	2	3
MTH	154	Calculus Appl. Science & Eng. II	4	0	4
PHY	113	Classical Physics I[1]	4	2	4
					14

SOPHOMORE YEAR

First Semester			R	L	C
EGR	241	Engineering Mechanics	3	0	3
MNE	231	Materials Science	3	3	4
MTH	213	Calculus Applied Science & Eng. III	4	0	4
PHY	114	Physics for Science & Engineering II[1, 3]	4	2	4
					15

Second Semester			R	L	C
EGR	242	Engineering Mechanics II	3	0	3
MTH	212	Diff. Equations for Engineering	3	0	3
MNE	220	Engineering Thermodynamics I[3]	3	0	3
MNE	252	Mechanics of Materials	3	3	4
ENL	266	Technical Communications[4]	3	0	3
					16

JUNIOR YEAR

First Semester			R	L	C
EGR	301	Applied Engineering Math	3	1	4
EGR	303	Engineering Economics[6]	3	0	3
MNE	332	Fluid Mechanics	$3^{1/2}$	$1^{1/2}$	4
MNE	345	Design for Manufacturing	$3^{1/2}$	$1^{1/2}$	4
					15

Second Semester			R	L	C
EGR	302	Prin. & Appl. of Elec. Eng.[5]	3	3	4
MNE	311	Heat Transfer	3	0	3
MNE	381	Design for Machine Elements	3	0	3
MNE	391	Systems Design & Controls	4	2	4
		Science Elective[7]	3	0	3
					17

SENIOR YEAR

First Semester			R	L	C
MNE	497	ME Design Project I[8]	2	0	2
MNE	421	Thermal Systems Design	3	2	4
		Technical Elective[9]	3	0	3
		Technical Elective[9]	3	0	3
		University Studies Requirement[2]	3	0	3
					15

Second Semester			R	L	C
MNE	498	ME Design Project II[8]	2	0	2
		Technical Elective[9]	3	0	3
		Technical Elective[9]	3	0	3
		University Studies Requirement[2]	3	0	3
		University Studies Requirement[2]	3	0	3
					14

Total Credits = 123 R = Recitation & Lecture (hours) L = Laboratory (hours) C = Number of Credits

[1] CHM 153, PHY 111, and PHY 112 can be used in place of CHM 151, PHY 113, and PHY 114, respectively.
[2] University Studies requirements (Clusters 3A, 3B, 4A, and 4B).
[3] These courses meet the University Studies Cluster 2 requirement: Scientific Inquiry and Understanding.
[4] This course meets the University Studies Cluster 1C requirement: Intermediate Writing.
[5] ECE 211 & ECE 251 may be used to meet this requirement.
[6] This course meets the University Studies Cluster 4C requirement: Nature of the Global Society.
[7] Must be taken from approved list of courses.
[8] These courses meet the University Studies Cluster 5 requirement: Integrating the UMD Experience.
[9] Must be taken from approved list of courses.

Updated 6/13/24jm