

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

FRESHMAN YEAR

<u>First Semester</u>	<u>R</u>	<u>L</u>	<u>C</u>		<u>R</u>	<u>L</u>	<u>C</u>
ENL 101 H Critical Writing & Reading I	3	0	3	ENL 102 H Critical Writing & Reading II	3	0	3
CHM 151 or 153 Prin. Mod. Chemistry for Eng.	3	0	3	MNE 101 Intro to Mech. Eng.	3	0	3
CHM 161 Intro. Appl. Chem. Lab	1	2	1		3	0	3
EGR 111 H Intro. To Eng. & Computing	3	2	3	MTH 154 Calculus Appl. Science & Eng. II	4	0	4
MTH 153 Calculus Appl Science & Eng. I	4	0	4	PHY 111 Physics for Science & Eng. I ²	4	2	4
			14				17

SOPHOMORE YEAR

<u>First Semester</u>	<u>R</u>	<u>L</u>	<u>C</u>	<u>Second Semester</u>	<u>R</u>	<u>L</u>	<u>C</u>
EGR 241 Engineering Mechanics	3	0	3	EGR 242 Engineering Mechanics II	3	0	3
MNE 231 Materials Science	3	3	4	MTH 212 Diff. Equations for Engineering	3	0	3
MTH 213 Calculus Applied Science & Eng. III	4	0	4	MNE 220 Engineering Thermodynamics I ²	3	0	3
PHY 112 Physics for Science & Engineering II ²	4	2	4	MNE 252 Mechanics of Materials	3	3	4
				ENL 266 Technical Communications ³	3	0	3
			15	MNE 280 Honors Enrichment	1	0	1
							17

JUNIOR YEAR

<u>First Semester</u>	<u>R</u>	<u>L</u>	<u>C</u>	<u>Second Semester</u>	<u>R</u>	<u>L</u>	<u>C</u>
EGR 301 Applied Engineering Math	3	1	4	ECE 211 Elements of Elec. Eng. I	3	0	3
EGR 303 Engineering Economics ⁴	3	0	3	ECE 251 Electrical Engineering Lab I	0	3	1
MNE 332 Fluid Mechanics	3 ^{1/2}	1 ^{1/2}	4	MNE 311 Heat Transfer	3	0	3
MNE 345 Design for Manufacturing	3 ^{1/2}	1 ^{1/2}	4	MNE 381 Design for Machine Elements	3	0	3
MNE 380 Honors Enrichment	1	0	1	MNE 391 System Design & Control	4	2	4
				HON 301 STEM Project Proposal⁵	3	0	3
			16	MNE 380 Honors Enrichment	1	0	1
							18

SENIOR YEAR

<u>First Semester</u>	<u>R</u>	<u>L</u>	<u>C</u>	<u>Second Semester</u>	<u>R</u>	<u>L</u>	<u>C</u>
MNE 497 H ME Design Project I⁶	2	0	2	MNE 498 H ME Design Project II⁶	2	0	2
MNE 421 Thermal Systems Design	3	2	4	Technical Elective ⁷	3	0	3
Technical Elective ⁷	3	0	3	Technical Elective ⁷	3	0	3
University Studies Requirement ¹	3	0	3	University Studies Requirement ¹	3	0	3
			12	University Studies Requirement ¹	3	0	3
							14

Total Credits = 123

R = Recitation & Lecture (hours) L = Laboratory (hours)

C = Number of Credits

¹University Studies requirements (Clusters 3A, 3B, 4A, and 4B).

²These courses meet the University Studies Cluster 2 requirement: Scientific Inquiry and Understanding.

³This course meets the University Studies Cluster 1C requirement: Intermediate Writing.

⁴This course meets the University Studies Cluster 4C requirement: Nature of the Global Society.

⁵This course meets the MNE Science Elective requirement.

⁶These courses meet the University Studies Cluster 5 requirement: Integrating the UMD Experience.

⁷Must be taken from approved list of courses.