



Name:

ID:

Catalog Year:

For students accepted into the Honors College for Fall 2020 or later, Honors requirements are as follows:

- Maintain an overall university GPA of 3.2 or higher;
- Complete a minimum of 24 Honors credits with a grade of **B** or higher, comprised of:
 - at least 21 credits of coursework¹
 - at least 3 APEX credits, completed under UMD faculty supervision, culminating in a public presentation of this work in an appropriate venue (e.g. Honors Convocation poster session, conference presentation, exhibition, thesis defense).

Honors Course ^{1,5}	# Credits	Semester Completed ⁵	Grade Earned
EGR 111H (<i>Transfer Students: Honors Elective</i> ⁴)	3		
Honors Elective ⁴	3		
Honors Elective ⁴	3		
Honors Elective ⁴	3		
Honors Elective ⁴	3		
MNE 280 (1) & MNE 380 (2) ³	3		
HON 301 or Honors Elective ⁴	3		
APEX: HON 490² -or- MNE 497H & MNE 498H	3 or 4		

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Please Note:

¹ No more than six credits may be completed by Honors Contract (courses numbered 200 or higher).

² HON 490 is recommended for students who will pursue graduate study and will meet a MNE Technical Elective.

³ MNE 280 and MNE 380 are 1 credit each and taken in the sophomore and junior years of the curriculum. Students take two semesters of MNE 380. The 3 credits collectively meet a MNE Technical Elective requirement.

⁴ **Honors Electives:** See course listings in COIN or visit www.umassd.edu/honors/courses/..

* Options vary by semester and are most often chosen from this list (in consultation with your advisor):

* ENL 101H, ENL 102H, ENL 266H

* Honors offerings within University Studies 3A, 3B, 4A, & 4B

* MTH 153H, MTH 154H, MTH 213H, MTH 212H

* With prior approval, up to three Graduate level courses (numbered 500+)

⁵ **Credit Progression:**

* Students **must** enroll in at least 3 Honors credits during their first semester in the Honors College.

* Thereafter, it is strongly recommended that students complete at least 3 credits per semester, or 6 credits per year, to ensure successful completion of all 24 credits within their degree timeline.

* Students must be aware of the need to plan their Honors studies in advance and they should take full advantage of the academic advising offered by the Honors College.

* It is recommended that students taking HON 301 do so in the Junior year and then begin the APEX by Fall of Senior year.

MECHANICAL ENGINEERING HONORS PROGRAM
COLLEGE OF ENGINEERING
UNIVERSITY OF MASSACHUSETTS DARTMOUTH
Catalog Years 2018-19 (Class of 2022) and 2019-20 (Class of 2023)

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.	2	2	3
CHM 161 Intro. Appl. Chem. Lab	1	2	1	University Studies Requirement 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
				MNE 280 Honors Enrichment	1	0	1
	15				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	EGR 302 Prin. & Appl. of Elec. Eng. ⁵	3	3	4
EGR 303 Engineering Economics ⁴	3	0	3	MNE 311 Heat Transfer	3	0	3
MNE 332 Fluid Mechanics	3 ^{1/2}	1 ^{1/2}	4	MNE 381 Design for Machine Elements	3	0	3
MNE 345 Design for Manufacturing	3 ^{1/2}	1 ^{1/2}	4	MNE 391 System Design & Control	4	2	4
MNE 380 Honors Enrichment	1	0	1	HON 301 STEM Project Proposal ⁶	3	0	3
				MNE 380 Honors Enrichment	1	0	1
	16				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 I ⁷	2	0	2	MNE 498 H ME Design Project II ⁷	2	0	2
MNE 421 Thermal Systems Design	3	2	4	Technical Elective ⁸	3	0	3
Technical Elective ⁸	3	0	3	Technical Elective ⁸	3	0	3
University Studies Requirement ¹	3	0	3	University Studies Requirement ¹	3	0	3
				University Studies Requirement ¹	3	0	3
	12				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.

⁵ECE 211 & ECE 251 may be used to meet this requirement.

⁶This course meets the MNE Science Elective requirement.

⁷These courses meet the University Studies Cluster 5 requirement: Integrating the UMD Experience.

⁸Must be taken from approved list of courses.