

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 ^{1,4}	# Credits	Semester Completed ⁴	Grade Earned
EGR 111H (<i>Transfer Students: Honors Elective</i> ³)	3		
Honors Elective ³	3		
Honors Elective ³	3		
Honors Elective ³	3		
Honors Elective ³	3		
Honors Elective ³	3		
HON 301 or Honors Elective ³	3		
APEX: EGR 497H & EGR 498H -or- HON 490 ²	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 count as a Specialization course.

³ **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, & 4C

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

* BNG 219H, BNG 220H, BNG 255H, BNG 311H, BNG 315H, BNG 316H

⁴ **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.

B.S. Bioengineering Curriculum											
Freshman Year											
First Semester			Lec	Lab	C	Second Semester			Lec	Lab	C
EGR	101	Critical Writing & Reading I	3	0	3	EGR	102	Critical Writing & Reading I	3	0	3
CHM	153 ¹	Principles Modern Chem. I	3	0	3	CHM	152	Principles Modern Chem. II	3	0	3
CHM	161	Intro. to Applied Chem. I	1	2	1	MTH	154	Calc for Appl Sci & Eng II	4	0	4
BNG	101	Intro. to Bioengineering	3	0	3	PHY	111	Physics for Appl Sci & Eng I	4	2	4
MTH	153	Calc for Appl Sci & Eng I	4	0	4						
EGR	111H	Intro Engineering & Comput.	2	3	3						
					17						14
Sophomore Year											
First Semester			Lec	Lab	C	Second Semester			Lec	Lab	C
EGR	241	Engin. Mechanics: Statics	3	0	3	BNG	232	Funda. Engi. Bio. Lab	0	3	1
EGR	266	Technical Communication	3	0	3	BNG	255H	Biology for Engineers	3	0	3
MTH	213	Calc for Appl Sci & Eng III	4	0	4	MTH	212	Differential Equations	3	0	3
PHY	112	Physics for Appl Sci & Eng II	4	2	4	BNG	220	Biochem. Thermodynamics	3	0	3
BNG	219H	Chem Methods in Bioengin	3	0	3	ECE	201	Circuit Theory I	3	1.5	3.5
					17						13.5
Junior Year											
First Semester			Lec	Lab	C	Second Semester			Lec	Lab	C
BNG	311H	Statistics for Bioengineer	3	0	3	BNG	312	Biotransport	3	0	3
BNG	318	Biomeasurement & Control	3	0	3	BNG	315H	Biomechanics	3	0	3
BNG	320	Biomeasurement Laboratory	0	3	1	BNG	316	Biomaterials	3	0	3
BNG	321	Quant. Physiology	3	0	3	BNG	317	Biomechanics Laboratory	0	3	1
BNG	322	Quant. Physiology Lab	0	3	1			University Study	3	0	3
		University Study	3	0	3						
		University Study	3	0	3						
					17						13
Senior Year											
First Semester			Lec	Lab	C	Second Semester			Lec	Lab	C
EGR	497H	Bioeng. Capstone Design I	1	2	2	EGR	498H	Bioeng. Capstone Design II	1	2	2
BNG	411	Bioengineering Lab	2	3	3	BNG	423	Biosystems Analysis & Dsgn.	3	1.5	3.5
BNG		Specialization	3	0	3	BNG		Specialization	3	0	3
BNG		Specialization	3	0	3	BNG		Specialization	3	0	3
		University Study	3	0	3			University Study	3	0	3
					14						14.5

Total Credits 120

Lec = Lecture (hours) Lab = Lab (hours) C = Number of Credits

University Studies Requirements – Choose 1 course from each Cluster area (5 courses total)

Cluster 3 The Cultural World

- a) Literature 3 credits
- b) Visual and performing Arts 3 credits

Cluster 4 The Social World

- a) Human Questions and Contexts 3 credits
- b) The Nature of US Society 3 credits
- c) The Nature of Global Society 3 credits

¹ CHM 151 may be taken in place of CHM 153.