

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 coursework<sup>1</sup>
  - 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 <sup>1,3</sup>	# Credits	Semester Completed <sup>3</sup>	Grade Earned
EGR 111H ( <i>Transfer Students: Honors Elective<sup>2</sup></i> )	3		
Honors Elective <sup>2</sup>	3		
Honors Elective <sup>2</sup>	3		
Honors Elective <sup>2</sup>	3		
Honors Elective <sup>2</sup>	3		
Honors Elective <sup>2</sup>	3		
<b>HON 301</b> or Honors Elective <sup>2</sup>	3		
<b>HON 490</b> (meets a Technical Elective)	3		

**24**

**Please Note:**

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

<sup>2</sup> **Honors Electives:** See course listings in COIN or visit [www.umassd.edu/honors/courses/](http://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

\* ECE 201H, ECE 202H, ECE 311H, ECE 320H

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

<sup>3</sup> **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.

**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING****FRESHMAN YEAR**

First Semester	R	L	C	Second Semester	R	L	C
ENL 101 Critical Writing & Reading I	3	0	3	ENL 102 Critical Writing & Reading II	3	0	3
EGR 111 Intro. Engineering & Computing <sup>1</sup>	2	3	3	ECE 160 Found. Comp. Engineering I	3	2	4
MTH 153 Calculus Applied Science & Eng. I <sup>2</sup>	4	0	4	MTH 154 Calculus Applied Science & Eng. II	4	0	4
Science Elective <sup>3</sup>	3	0	3	PHY 113 Classical Physics I <sup>4</sup>	3½	1½	4
University Studies Elective <sup>5</sup>	3	0	3				
	<b>16</b>				<b>15</b>		

**SOPHOMORE YEAR**

First Semester	R	L	C	Second Semester	R	L	C
ECE 201 Circuit Theory I	3	1½	3½	ENL 266 Technical Communications <sup>6</sup>	3	0	3
ECE 260 Digital Logic & Computer Design	3	1½	3½	ECE 202 Circuit Theory II	3	1½	3½
ECE 250 Fundamentals of MATLAB	1	2	2	ECE 263 Embedded System Design	3	1½	3½
MTH 213 Calculus Applied Science & Eng. III	4	0	4	ECE 264 Object Oriented Software Develop.	3	2	4
PHY 114 Classical Physics II	3½	1½	4	MTH 212 Differential Equations	3	0	3
	<b>17</b>				<b>17</b>		

**JUNIOR YEAR**

First Semester	R	L	C	Second Semester	R	L	C
ECE 311 Digital Electronics	3	3	4	ECE 310 Engineering Ethics	1	0	1
ECE 320 Discrete-Time Linear Systems	3	0	3	ECE 312 Analog Electronics	3	3	4
ECE 335 Electromagnetic Theory I	3	0	3	ECE 321 Continuous-Time Linear Systems	3	0	3
ECE 388 Embedded Design Project	2	3	3	ECE 336 Electromagnetic Theory II	3	0	3
University Studies Elective <sup>5</sup>	3	0	3	ECE 384 Random Signals & Noise	3	0	3
	<b>16</b>			University Studies Elective <sup>5</sup>	3	0	3
	<b>16</b>				<b>17</b>		

**SENIOR YEAR**

First Semester	R	L	C	Second Semester	R	L	C
ECE 457 Design Project I <sup>7</sup>	3	0	3	ECE 458 Design Project II <sup>8</sup>	3	0	3
ECE 471 Communication Theory	3	0	3	Technical Elective <sup>9</sup>	3	0	3
HON 490 Technical Elective <sup>9</sup>	3	0	3	Science Elective <sup>3</sup>	3	0	3
Engineering Mathematics <sup>10</sup>	3	0	3	University Studies Elective <sup>5</sup>	3	0	3
EGR 303 Engineering Economics <sup>11</sup>	3	0	3				
	<b>15</b>				<b>12</b>		

**TOTAL CREDITS = 125**

R = Recitation (hours)

L = Laboratory (hours)

C = Number of Credits

<sup>1</sup> This course meets the University Studies Cluster 1E requirement: Foundation for Learning through Engagement.<sup>2</sup> This course meets the University Studies Cluster 1D requirement: Mathematics.<sup>3</sup> Must be chosen from this list: BIO, BNG, CHM, MAR, or MLS course; or a PHY course numbered above 150. One of the courses must come from the University Studies cluster 2B (Science in the Engaged Community) approved list ([www.umassd.edu/universitystudies/approvedcourses/](http://www.umassd.edu/universitystudies/approvedcourses/)). Requirement may not be satisfied by independent study, seminars or internships.<sup>4</sup> This course meets the University Studies Cluster 2A requirement: Science of the Natural World.<sup>5</sup> See University Studies requirements (Clusters 3A, 3B, 4A, and 4B).<sup>6</sup> This course meets the University Studies Cluster 1C requirement: Intermediate Writing.<sup>7</sup> This course meets the University Studies Cluster 5B requirement: Learning through Engagement.<sup>8</sup> This course meets the University Studies Cluster 5A requirement: Capstone Study.<sup>9</sup> Must be taken from approved list of courses.<sup>10</sup> Must be taken from this list: ECE 355, ECE 455, ECE 485, or MTH 221.<sup>11</sup> This course meets the University Studies Cluster 4C requirement: The Nature of the Global Society.