

**UNIVERSITY OF MASSACHUSETTS DARTMOUTH**  
*Department of Electrical and Computer Engineering*

ELECTRICAL ENGINEERING PROGRAM

GRADUATING CLASS OF 2008

**FRESHMAN 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>
CHM 153 Prin. Mod. Chem. for Engineers	3	0	3	ECE 160 Found. Comp. Engineering I <sup>1</sup>	3	2	4
EGR 105 Intro. Engineering App. Sci. I	1½	1½	2	EGR 108 Intro. Engineering App. Sci. II	1	3	2
ENL 101 Critical Writing & Reading I	3	0	3	ENL 102 Critical Writing & Reading II	3	0	3
MTH 113 Calc. Applied Sci. & Eng. I	4	0	4	MTH 114 Calc. Applied Sci. & Eng. II	4	0	4
PHY 111 Physics for Sci. & Eng. I	4	0	4	PHY 112 Physics for Sci. & Eng. II	4	0	4
	<b>16</b>				<b>17</b>		

**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>
ECE 161 Found. Comp. Engineering II	3	2	4	PHY 213 Applied Modern Physics	3	0	3
ECE 201 Circuit Theory I	3	1½	3½	ECE 202 Circuit Theory II	3	1½	3½
ECE 260 Digital Logic & Computer Design	3	1½	3½	ECE 263 Embedded System Design	3	1½	3½
MTH 212 Differential Equations	3	0	3	MTH 213 Calc. Applied Sci. & Eng. III	4	0	4
ENL 266 Technical Communications <sup>2</sup>	3	0	3	General Education Elective <sup>3</sup>	3	0	3
	<b>17</b>				<b>17</b>		

**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>
ECE 311 Digital Electronics	3	3	4	ECE 312 Analog Electronics	3	3	4
ECE 321 Continuous-Time Linear Systems	3	0	3	ECE 322 Discrete-Time Linear Systems	3	0	3
ECE 335 Electromagnetic Theory I	3	0	3	ECE 336 Electromagnetic Theory II	3	0	3
General Education Elective	3	0	3	ECE 384 Random Signals & Noise	3	0	3
Ethics <sup>4</sup> /Gen. Ed. Elective <sup>3</sup>	3	0	3	Ethics <sup>4</sup> /Gen. Ed. Elective <sup>3</sup>	3	0	3
	<b>16</b>				<b>16</b>		

**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>
ECE 457 Design Project I <sup>5</sup>	1	3	2	ECE 458 Design Project II	1	6	3
ECE 471 Communication Theory	3	0	3				
Engineering Mathematics <sup>6</sup>	3	0	3				
Technical Elective <sup>7</sup>	3	0	3	Technical Elective <sup>7</sup>	3	0	3
Technical Elective <sup>7</sup>	3	0	3	Technical Elective <sup>7</sup>	3	0	3
General Education Elective <sup>3</sup>	3	0	3	General Education Elective <sup>3</sup>	3	0	3
	<b>17</b>				<b>12</b>		

**TOTAL CREDITS = 128**      R = Recitation (hours)      L = Laboratory (hours)      C = Number of Credits

<sup>1</sup> This course meets the General Education Area I (Tier 2) requirement: Information and Computer Literacy.

<sup>2</sup> This course meets the General Education Area W requirement: Writing Skills. Must be taken before the student's senior year.

<sup>3</sup> See General Education requirements (Areas C, D, and G).

<sup>4</sup> General Education Area E requirement: Ethics and Social Responsibility. Must be taken from this list: CIS 381, PHL 215, SOC 164, SOC 323, or TES 350. Must be taken before the student's senior year.

<sup>5</sup> This course meets the General Education Area O requirement: Oral Skills.

<sup>6</sup> Must be taken from this list: ECE 455, ECE 485, MTH 221, MTH 311, MTH 350, or MTH 421.

<sup>7</sup> Must be taken from approved list of EE Technical Electives.