

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

COMPUTER 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	ECE 202 Circuit Theory II	3 1½ 3½
ECE 201 Circuit Theory I	3 1½ 3½	ECE 263 Embedded System Design	3 1½ 3½
ECE 257 Fundamentals of UNIX	1 0 1	ECE 264 Object Oriented Software Dev.	3 0 3
ECE 260 Digital Logic & Computer Design	3 1½ 3½	MTH 213 Calc. Applied Sci. & Eng. III	4 0 4
ENL 266 Technical Communications <sup>2</sup>	3 0 3		
MTH 212 Differential Equations	3 0 3	General Education Elective <sup>3</sup>	3 0 3
	<b>18</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 350 Algorithms	3 0 3
ECE 367 Operating Systems	3 0 3	ECE 368 Digital Design	2 3 3
MTH 181 Intro. Discrete Structures I	3 0 3	MTH 331 Probability	3 0 3
General Education Elective <sup>3</sup>	3 0 3	General Education Elective <sup>3</sup>	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>15</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
Restricted CPE Elective <sup>6</sup>	3 0 3	ECE 460 Computer System Perf. Eval.	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
CIS 480 Software Engineering	3 3 4	General Education Elective <sup>3</sup>	3 0 3
	<b>15</b>		<b>15</b>

**TOTAL CREDITS = 129**      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 456, ECE 461, ECE 465, ECE 466, ECE 469, or ECE 486.  
<sup>7</sup> Must be taken from approved list of CPE Technical Electives.