

UNIVERSITY OF MASSACHUSETTS DARTMOUTH
Department of Electrical and Computer Engineering

ELECTRICAL ENGINEERING PROGRAM

GRADUATING CLASS OF 2009

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 ¹	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
	16		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>
ECE 201 Circuit Theory I	3 1½ 3½	PHY 213 Applied Modern Physics	3 0 3
ECE 260 Digital Logic & Computer Design	3 1½ 3½	ECE 202 Circuit Theory II	3 1½ 3½
MTH 212 Differential Equations	3 0 3	ECE 250 Fundamentals of MATLAB	½ 1½ 1
ENL 266 Technical Communications ²	3 0 3	ECE 263 Embedded System Design	3 1½ 3½
General Education Elective ³	3 0 3	ECE 264 Object Oriented Software Dev.	3 0 3
	16	MTH 213 Calc. Applied Sci. & Eng. III	4 0 4
			18

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	3 0 3	ECE 384 Random Signals & Noise	3 0 3
General Education Elective ³	3 0 3	ECE 310 Engineering Ethics ⁴	1 0 1
	16		14

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 ⁵	2 3 3	ECE 458 Design Project II	1 6 3
ECE 471 Communication Theory	3 0 3		
Engineering Mathematics ⁶	3 0 3	Technical Elective ⁷	3 0 3
Technical Elective ⁷	3 0 3	Technical Elective ⁷	3 0 3
Technical Elective ⁷	3 0 3	General Education Elective ³	3 0 3
General Education Elective ³	3 0 3		
	18		12

TOTAL CREDITS = 127 R = Recitation (hours) L = Laboratory (hours) C = Number of Credits

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

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

³ See General Education requirements (Areas C, D, and G).

⁴ General Education Area E requirement: Ethics and Social Responsibility. Must be taken before the student's senior year.

⁵ This course meets the General Education Area O requirement: Oral Skills.

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

⁷ Must be taken from approved list of EE Technical Electives.