

**COMPUTER ENGINEERING PROGRAM****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>
ENL	101	Critical Writing & Reading I	3	0	3	ENL	102	Critical Writing & Reading II	3	0	3
EGR	101	Intro. Engineering Applied Science I	1½	1½	2	EGR	102	Intro. Engineering App. Science II	1½	1½	2
MTH	113	Calculus Applied Science & Eng. I	4	0	4	MTH	114	Calculus Applied Science & Eng. II	4	0	4
		General Education Elective <sup>1</sup>	3	0	3	PHY	111	Physics for Science & Eng. I	3½	1½	4
ECE	160	Foundations Comp. Engineering I <sup>2</sup>	3	2	4	ECE	161	Foundations Comp. Engineering II	3	2	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	201	Circuit Theory I	3	1½	3½	ECE	202	Circuit Theory II	3	1½	3½
ECE	257	Fund. System Software w/ UNIX	2	0	2	ECE	250	Fundamentals of MATLAB	½	1½	1
ECE	260	Digital Logic & Computer Design	3	1½	3½	ECE	263	Embedded System Design	3	1½	3½
PHY	112	Physics for Science & Eng. II	3½	1½	4	ECE	264	Object Oriented Software Develop.	3	2	4
MTH	213	Calculus Applied Science & Eng. III	4	0	4	MTH	212	Differential Equations	3	0	3
					<b>17</b>						<b>18</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	310	Engineering Ethics <sup>4</sup>	1	0	1
ECE	320	Discrete-Time Linear Systems	3	0	3	ECE	368	Digital Design	2	3	3
CIS	370	Design of Operating Systems	3	2	4	ECE	469	Computer Networks	3	0	3
MTH	350	Applied Discrete Mathematics	3	0	3	MTH	331	Probability	3	0	3
		General Education Elective <sup>1</sup>	3	0	3			Science Elective <sup>5</sup>	3	0	3
					<b>17</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>6</sup>	2	3	3	ECE	458	Design Project II	1	6	3
CIS	360	Algorithms and Data Structures	3	0	3	ECE	460	Computer Systems Perform. 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			General Education Elective <sup>1</sup>	3	0	3
		General Education Elective <sup>1</sup>	3	0	3						<b>12</b>
					<b>15</b>						<b>12</b>

**TOTAL CREDITS = 128**

R = Recitation (hours)

L = Laboratory (hours)

C = Number of Credits

<sup>1</sup> See General Education requirements (Areas C, D, and G).<sup>2</sup> This course meets the General Education Area I (Tier 2) requirement: Information and Computer Literacy.<sup>3</sup> This course meets the General Education Area W (Tier 2) requirement: Writing Skills.<sup>4</sup> This course meets the General Education Area E requirement: Ethics and Social Responsibility.<sup>5</sup> Must be taken from this list: all CHM, MTX, and PHY courses numbered above 150; all BIO courses numbered above 199; or 100-level BIO courses with the S designation.<sup>6</sup> This course meets the General Education Area O requirement: Oral Skills.<sup>7</sup> Must be taken from approved list of courses.