

# Electrical Engineering - Computer Engineering Subtrack

1 <sup>st</sup> YEAR	Session	Course	Electrical Engineering - Computer	SH	Pre-Requisite or/Co-Requisite
1 <sup>st</sup> semester	All	22M:031	Engineering Math I – Single Variable Calculus	4	P: H.S. Algebra & Trigonometry
	F	59:005	Engineering Problem Solving I	3	
	All	4:011	Principles of Chemistry I	4	
	All	10:003	Accelerated Rhetoric (or 10:001 & 10:002)	4	
	F	59:090	First-Year Engineering Seminar	1	
<b>Total</b>				<b>16</b>	
2 <sup>nd</sup> semester	All	22M:032	Engineering Math II – Multivariable Calculus	4	P: 22M:031
	S	59:006	Engineering Problem Solving II	3	C: 22M:031
	F/S	29:081	Introductory Physics I	4	C: 22M:031
	All	22M:033	Engineering Math III – Matrix Algebra	2	P: 22M:031
	All		General Education Component #1	3	
<b>Total</b>				<b>16</b>	
<b>2<sup>nd</sup> YEAR</b>					
1 <sup>st</sup> semester	All	22M:034	Engineering Math IV – Differential Equations	3	P: 22M:032 and 22M:033
	F/S	29:082	Introductory Physics II	4	P: 29:081; C: 22M:032
	All	59:007	Engineering Fundamentals I – Statics	2	P: 22M:031; C: 29:081, 22M:032
	F/S	59:008	Engineering Fundamentals II – Electrical Circuits	3	C: 22M:034
	All	59:009	Engineering Fundamentals III – Thermodynamics	3	P: 4:011, 29:081; C: 22M:032
<b>Total</b>				<b>15</b>	
2 <sup>nd</sup> semester	F/S	22M:037	Engineering Math V – Vector Calculus	3	P: 22M:034
	S	55:040	Linear Systems I	3	P: 59:008, 22M:034
	All	57:017	Computers in Engineering	3	P: 59:006, sophomore standing
	F/S	57:018	Principles of Electronic Instrumentation	4	P: 29:082, 59:008
	All		General Education Component #2	3	
<b>Total</b>				<b>16</b>	
<b>3<sup>rd</sup> YEAR</b>					
1 <sup>st</sup> semester	F/S	22S:039	Probability and Statistics for Engineers	3	P: 22M:032
	F	55:032	Introduction to Digital Design	3	Sophomore Status
	F/S	22C:019	Discrete Structures	3	P: 57:017
	F	55:033	Introduction to Software Design	3	P: 57:017
	F	55:070	Electromagnetic Theory	3	P: 22M:037, 29:082
	F	55:091	Professional Seminar: Electrical Engineering	0	Junior Status
<b>Total</b>				<b>15</b>	
2 <sup>nd</sup> semester	F/S	22C:021	Computer Science II (EFA #1)	3	C: 22:019
	S	55:035	Computer Architecture and Organization	3	P: 55:032, 57:017
	S	55:036	Embedded Systems and System Software	3	C: 55:035; P: 57:017
	All		Elective Focus Area Elective #2	3	
	All		Elective Focus Area Elective #3	3	
	All		General Education Component #3	3	
<b>Total</b>				<b>18</b>	
<b>4<sup>th</sup> YEAR</b>					
1 <sup>st</sup> semester	F	55:088	Principles of Electrical Engineering Design	3	Senior Status
	All	22C:031	Algorithms	3	P: C- or higher in 22C:021
	All		Elective Focus Area Elective #4	3	
	All		Elective Focus Area Elective #5	3	
	All		Track Breadth Elective *	3	
	All		General Education Component #4	3	
<b>Total</b>				<b>18</b>	
2 <sup>nd</sup> semester	S	55:089	Senior Electrical Engineering Design	3	Senior Status C:55:088
	All		Track Depth Elective **	3	
	All		Elective Focus Area Elective #6	3	
	All		Elective Focus Area Elective #7	3	
	All		General Education Component #5	3	
<b>Total</b>				<b>15</b>	

\* Track breadth elective must be chosen from Electrical or Information lists.

\*\* Track depth elective must be an advanced course in a subject area within the track. Normally this is defined as a 100-level course which has one of the required track courses as a pre-req. See ECE Undergraduate Handbook