

# Electrical Engineering – Electrical Engineering Subtrack

<b>1<sup>st</sup> YEAR</b>	<b>Session</b>	<b>Course</b>	<b>Electrical Engineering - Electrical</b>	<b>SH</b>	<b>Pre-Requisite or/Co-Requisite</b>
<b>1<sup>st</sup> semester</b>	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	First Semester Standing
<b>Total</b>				<b>16</b>	
<b>2<sup>nd</sup> semester</b>	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>					
<b>1<sup>st</sup> semester</b>	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, 029:032
	F/S	59:008	Fundamentals of Engineering II – Electrical Circuits	3	C: 22M:034 and 29:082
	All	59:009	Fundamentals of Engineering III - Thermodynamics	3	P: 22M:032, 4:011, 29:081
<b>Total</b>				<b>15</b>	
<b>2<sup>nd</sup> semester</b>	F/S	22M:037	Engineering Math V – Vector Calculus	3	P: 22M:034
	F/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>					
<b>1<sup>st</sup> semester</b>	F/S	22S:039	Probability and Statistics for Engineers	3	P: 22M:032
	F/S	55:032	Introduction to Digital Design	3	Sophomore Status
	F/S	55:043	Linear Systems II	3	P: 055:040
	F	55:041	Electronic Circuits	3	P: 55:040, 57:018
	F	55:070	Electromagnetic Theory	3	P: 22M:037, 29:082
	F/S	55:091	Professional Seminar: Electrical Engineering	0	Junior Status
<b>Total</b>				<b>15</b>	
<b>2<sup>nd</sup> semester</b>	S	55:050	Communication Systems	3	P: 55:043, 22S:039
	S	55:060	Control Systems	3	P: 55:040
	All		Elective Focus Area Elective #1	3	
	All		Elective Focus Area Elective #2	3	
	S	55:072	EE Materials and Devices	3	P: 29:082, 55:041
	All		General Education Component #3	3	
<b>Total</b>				<b>18</b>	
<b>4<sup>th</sup> YEAR</b>					
<b>1<sup>st</sup> semester</b>	F	55:088	Principles of Electrical Engineering Design	3	P: Senior Status
	All		Elective Focus Area Elective #3	3	
	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>
<b>2<sup>nd</sup> semester</b>	S	55:089	Senior Electrical Engineering Design	3	P: 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 Computer or Information lists, with exception of 055:043 & 055:050

\*\* 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