

[Please refer to the Undergraduate Catalog for further program requirements and course descriptions.](#)

<b>First Year – 32-33 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
ENME 1011: <i>Introduction to Two/Three-Dimensional Modeling</i>	1	ENCE 1040: <i>Vector Statics</i>	3
ENME 1030/1030L: <i>Basic Engineering Science/Lab</i>	4	CHEM 1110/1110L: <i>General Chemistry I/Lab (Natural Science)</i>	4
ESEE 1010: <i>Introduction to Engineering</i>	3	MATH 1960: <i>Calculus w/ Analytic Geometry II</i>	4
MATH 1950: <i>Calculus w/ Analytic Geometry I (Quantitative Reasoning)</i>	4	MATH 2200: <i>Elementary Linear Algebra</i>	3
Writing and Communication	3-4	Writing and Communication	3
	15-16		17
<b>Second Year – 33 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
ESEE 2250: <i>Engineering Programming</i>	3	ENCE 2220: <i>Probability and Statistics for Engineering (Quantitative Reasoning)</i>	3
ESEE 2700/2710L: <i>Electrical Circuits I/Lab</i>	4	ESEE 2720: <i>Electrical Circuits II</i>	3
MATH 2450: <i>Introduction to Differential/Difference Equations</i>	3	ESEE 2740: <i>Digital Electronics</i>	3
PHYS 2310/2310L: <i>Principles of Physics - Electricity and Magnetism/Lab (Natural Science)</i>	4	MATH 2560: <i>Calculus w/ Analytic Geometry III</i>	4
Behavioral and Social Science	3	Behavioral and Social Science	3
	17		16
<b>Third Year – 33-34 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
ESEE 3250: <i>Signals and Systems</i>	3	ESEE 3790: <i>Modern Control Systems Analysis and Design</i>	3
ESEE 3720/3720L: <i>Analog Electronics/Lab</i>	4	ESEE 4800: <i>Electronic Instrumentation</i>	3
ESEE 3750: <i>Electromagnetic Fields and Waves</i>	3	Approved Electrical Engineering Focus Elective	3-4
ESEE 3800/3800L: <i>Electrical Energy Conversion/Lab</i>	4	Approved Electrical Engineering Focus Lab Elective	0-1
Humanities and Fine Arts	3-4	Electrical Engineering Elective (3000-4000 Level)	3
		Approved Technical Elective (3000-4000 Level)	3
	17-18		16
<b>Fourth Year – 30-32 hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
ENCE 3850: <i>Interdisciplinary Design Project I</i>	3	ESEE 4850: <i>Interdisciplinary Design Project II **</i>	3
Approved Electrical Engineering Focus Elective	3	ESEE 4900: <i>Fundamentals of Engineering and Professionalism</i>	1
Approved Electrical Engineering Focus Elective	3-4	Electrical Engineering Elective (3000-4000 Level)	3-4
Electrical Engineering Elective (3000-4000 Level)	3-4	Electrical Engineering Lab Elective (3000-4000 Level)	0-1
Electrical Engineering Lab Elective (3000-4000 Level)	0-1	Approved Technical Elective (3000-4000 Level)	3
Humanities and Fine Arts	3-4	Individual and Global Citizenship	3-4
	16-17		14-15

\*\*Qualified students may substitute ESEE 4995: *Departmental Thesis* (4 hrs)

<b>Completed:</b>			
<b>Graduation Requirements:</b>	<b>Hrs</b>	<b>Degree Requirements:</b>	<b>Hrs</b>
128 Total Hours		21-25 General Education Hours	
39 Upper Division (3000-4000) Hours		107 Program (Major) Hours	
32 Hours at UTC		Minor ( <i>Not Required</i> )	
45 Hours at 4-year Institution		Electives ( <i>Not Required</i> )	
		Foreign Language ( <i>Not Required</i> )	