CLEAR PATH for ADVISING – *Electrical Engineering, B.S.E.E.*　　　　**2025-2026**

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

First Year – 32-33 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
ENME 1011: *Introduction to Two/Three-Dimensional Modeling*	1	CHEM 1110/1110L: *General Chemistry I/Lab* (Natural Science)	4
ENME 1030/1030L: *Basic Engineering Science/Lab*	4	ENCE 1040: *Vector Statics*	3
ENEE 1010: *Introduction to Engineering*	3	MATH 1960: *Calculus w/ Analytic Geometry II*	4
MATH 1950: *Calculus w/ Analytic Geometry I* (Quantitative Reasoning)	4	MATH 2200: *Elementary Linear Algebra*	3
Writing and Communication	3-4	Writing and Communication	3
	15-16		17
Second Year – 33 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
ENEE 2250: *Engineering Programming*	3	ENCE 2220: *Probability and Statistics for Engineering* (Quantitative Reasoning)	3
ENEE 2700/2710L: *Electrical Circuits I/Lab*	4	ENEE 2720: *Electrical Circuits II*	3
MATH 2450: *Introduction to Differential/Difference Equations*	3	ENEE 2740: *Digital Electronics*	3
PHYS 2310/2310L: *Principles of Physics - Electricity and Magnetism/Lab* (Natural Science)	4	MATH 2560: *Calculus w/ Analytic Geometry III*	4
Behavioral and Social Science	3	Behavioral and Social Science	3
	17		16
Third Year – 33-34 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
ENEE 3250: *Signals and Systems*	3	ENEE 3790: *Modern Control Systems Analysis and Design*	3
ENEE 3720/3720L: *Analog Electronics/Lab*	4	ENEE 4800: *Electronic Instrumentation*	3
ENEE 3750: *Electromagnetic Fields and Waves*	3	Approved Electrical Engineering Focus Elective	3-4
ENEE 3800/3800L: *Electrical Energy Conversion/Lab*	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 (2000-4000 Level)	3
	17-18		16
Fourth Year – 30-32 hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
ENCE 3850: *Interdisciplinary Design Project I*	3	ENEE 4850: *Interdisciplinary Design Project II* **	3
Approved Electrical Engineering Focus Elective	3	ENEE 4900: *Fundamentals of Engineering and Professionalism*	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 (2000-4000 Level)	3
Humanities and Fine Arts	3-4	Individual and Global Citizenship	3-4
	16-17		14-15

**Qualified students may substitute ENEE 4995R: *Departmental Thesis* (4 hrs)

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