

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

First Year – 29-31 Hours			
Fall Semester:		Spring Semester:	Hrs
ENEE 1010: <i>Introduction to Engineering</i>	3	CPSC 1100: <i>Fundamentals of Computer Science</i>	4
ENME 1011: <i>Introduction to Two/Three-Dimensional Modeling</i>	1	ENME 1850: <i>Introduction to Engineering Design</i>	2
MATH 1130: <i>College Algebra</i> (Quantitative Reasoning)	3	MATH 1730: <i>Combined Precalculus</i> (Quantitative Reasoning)	4
Writing and Communication	3-4	THSP 1090: <i>Public Speaking</i> (Writing and Communication)	3
Behavioral and Social Science	3	Humanities and Fine Arts	3-4
	13-14		16-17
Second Year – 29-32 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
ETEM 1320: <i>Introduction to Material Science and Technology</i>	3	ETME 1100: <i>Electrical and Electronic Circuits</i>	3
ETME 2130: <i>Principles of Mechanical Systems</i>	3	ETME 2150: <i>Manufacturing Processes</i>	3
MATH 1950: <i>Calculus with Analytic Geometry I</i>	4	Technical Elective	3-4
PHYS 1030/1030L: <i>General Physics - Mechanics and Heat/Lab</i> (Natural Science)	4	Technical Elective	3-4
		Humanities and Fine Arts	3-4
	14		15-18
Third Year – 31-32 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
ENCE 2220: <i>Probability and Statistics for Engineering</i> , MATH 2100: <i>Introductory Statistics</i> , or DATA 2130: <i>Statistics for Business</i>	3	ETEM 3520: <i>Cost Estimation and Analysis for Engineering Management</i>	3
ETCM 2010: <i>Industrial Safety and Risk Management</i>	3	ETME 3010: <i>Applied Math for Engineering Technology</i>	3
ETME 2100: <i>Introduction to Mechatronics Engineering Technology</i>	3	ETME 3110: <i>Control Systems Technology</i>	3
ETME 2110: <i>Digital Electronics and Microcontrollers</i>	3	ETME 3230: <i>Industrial Programming and Networking</i>	3
Technical Elective	3-4	PHYS 1040/1040L: <i>General Physics - Electromagnetism and Optics/Lab</i> (Natural Science)	4
	15-16		16
Fourth Year – 33-36 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
ETEM 3550: <i>Project Management and Practice</i>	3	ETME 3120: <i>Maintenance of Mechatronic Systems</i>	3
ETEM 4590: <i>Facilities Management</i>	3	ETME 4210: <i>Integrated Mechatronics Systems II</i>	3
ETME 3210: <i>Automation Systems</i>	3	ETME 4220: <i>Robotics and Motion Control</i>	3
ETME 4110: <i>Integrated Mechatronics Systems I</i>	3	ETEM 4960R: <i>Engineering Technology Management Internship</i>	3
ETME 4120: <i>Applications of Thermal and Fluid Systems</i>	3	Individual and Global Citizenship	3-4
ETME 4130: <i>Applied Electric Power and Machinery</i>	3	Elective	0-2
	18		15-18

Completed:			
Graduation Requirements:	Hrs	Degree Requirements:	Hrs
124 Total Hours		15-19 General Education Hours	
39 Upper Division (3000-4000 Level) Hours		107-110 Program (Major) Hours	
32 Hours at UTC		Minor (<i>Not Required</i>)	
45 Hours at 4-year Institution		0-2 Elective Hours	
		Foreign Language (<i>Not Required</i>)	