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 1030/1030L: Basic Engineering Science/Lab	4	ENCE 1040: Vector Statics	3		
CHEM 1110/1110L: General Chemistry I/Lab	4	CHEM 1120/1120L: General Chemistry II/Lab	4		
(Natural Science)	4	CHEW 1120/1120L. General Chemistry II/Lab	4		
MATH 1950: Calculus w/ Analytic Geometry I	4	MATH 1960: Calculus w/ Analytic Geometry II	4		
(Quantitative Reasoning)					
Writing and Communication	3-4	ENCH 1000: Introduction to Chemical Engineering	3		
		Writing and Communication	3		
	15-16		17		
Second Year – 34 Hours					
Fall Semester:	Hrs	Spring Semester:	Hrs		
ENCH 2240: Chemical Engineering Computations	3	ENCE 2220: Probability and Statistics for Engineering	3		
		(Quantitative Reasoning)			
MATH 2200: Elementary Linear Algebra	3	ENCH/ENME 3030: Thermodynamics	3		
MATH 2450: Introduction to Differential/Difference	3	MATH 2560: Calculus w/ Analytic Geometry III	4		
Equations		· · · · · · · · · · · · · · · · · · ·			
CHEM 3010/3010L: Organic Chemistry I/Lab	4	BIOL 2100/2100L: Microbiology and Health/Lab	4		
PHYS 2310/2310L: Principles of Physics - Electricity and	4	Behavioral and Social Science	3		
Magnetism/Lab (Natural Science)	17		17		
Third Year – 30-32 Hours	11/		17		
Fall Semester:	Hrs	Spring Semester:	Hrs		
	3		3		
ENCE 3520: Engineering Economy		ENCH 3040: Chemical Thermodynamics	+		
ENCH 3310: Chemical Process Principles	3	ENCH 3280/3280L: Control Systems/Lab	4		
ENCH 3350: Unit Operations Laboratory	1	ENCH 3320: Heat Transfer Process	3		
ENME 3400: Engineering Materials Science	3	ENME 3070/3070L: Fluid Mechanics/Lab	4		
Humanities and Fine Arts	3-4	Humanities and Fine Arts	3-4		
- 11 11	13-14		17-18		
Fourth Year – 32-33 Hours	I	la a a .	1		
Fall Semester:	Hrs	Spring Semester:	Hrs		
ENCH 4250: Sustainability Engineering	3	ENCE 4380: Wastewater and Water Treatment **	3		
ENCH 4290: Intro to Chemical Engineering Design	3	ENCH 4300: Chemical System Design **	3		
ENCH 4330: Chemical Process Operations	3	ENCH 4340: Chemical Kinetics and Reactor Design **	3		
ENCH 4350: Chemical Processes Lab **	2	Behavioral and Social Science	3		
ESC 4100: Environmental Law and Agencies	3	Individual and Global Citizenship	3-4		
GEOL 4450: Hydrology **	3				
	17		15-16		

<sup>\*\*</sup>Indicates course has a pre- or co-requisite that is not required for degree. Consult Catalog and advisor.

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)	