## CLEAR PATH for ADVISING – Chemical Engineering, B.S.Ch.E.

Please see the Courses section of this catalog for complete 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 (Nat. Science)	4	CHEM 1120/1120L: General Chemistry II/Lab	4
MATH 1950: Calculus w Analytic Geometry I (Math)	4	MATH 1960: Calculus w Analytic Geometry II	4
ENGL 1010 or 1011 (Rhetoric and Writing I)	3-4	ENCH 1000: Intro to Chemical Engineering	3
		ENGL 1020 or HIST 2100 (Rhetoric and Writing II)	3
	15-16		17
Second Year – 33-34 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
ENME 2240: Intro to Engineering Computations	3	ENCE 2220: Probablity & Stats for Engineering (Stats)	3
MATH 2200: Elementary Linear Algebra	3	MATH 2560: Calculus w Analytic Geometry III (or 2550)	3-4
MATH 2450: Intro to Differential/Difference Equations	3	Fine Arts and Humanities*	3
CHEM 3010/3010L: Organic Chemistry I/Lab	4	CHEM 3020/3020L: Organic Chemistry II/Lab	4
PHYS 2310/2310L: Principles of Physics - Electricity &	4	Behavioral and Social Science (ECON 1010)	3
Magnetism/Lab (Natural Science)	-		_
	17		16-17
Third Year – 34 Hours	_		
Fall Semester:	Hrs	Spring Semester:	Hrs
ENCH 3310: Chemical Process Principles	3	ENME 3070/3070L: Fluid Mechanics/Lab	4
ENCH 3350: Unit Operations Laboratory	1	ENCH 3040: Chemical Thermodynamics	3
ENCE 3520: Engineering Economy	3	ENCH 3280/3280L: Control Systems	4
ENME/ENCH 3030: Thermodynamics	3	ENCH 3320: Heat Transfer Processes	3
ENME 3400: Engineering Materials Science	3	Approved Junior Technical Elective	4
CHEM 3710: Physical Chemistry I	3		
	16		18
Fourth Year – 29 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
ENCH 4320: Fractional Distillation Separation Processes	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	Approved Senior Technical Elective	3
ENCH 4290: Intro to Chemical Engineering Design	3	Fine Arts and Humanities*	3
Behavioral and Social Science (ECON 1020)	3	Non-Western Culture	3
	14		15

\*Fine Arts and Humanities: 6 hours must be taken so that two different categories in FAH: Historical Understanding; Literature; Thought, Values & Beliefs; or Visual & Performing Arts are satisfied.

Completed:				
Graduation Requirements:	Hrs	Degree Requirements:	Hrs	
128 Total Hours		21-22 General Education Hours		
39 Upper Division (3000-4000) Hours		107-108 Program (Major) Hours		
32 Hours at UTC		Minor (Not Required)		
60 Hours at 4-year Institution		Elective Hours (Not Required)		
		Foreign Language (Not Required)		