<u>Please refer to the Undergraduate Catalog for further program requirements and course descriptions.</u>

| 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 | ENME/ENCH 3030: Thermodynamics | 3 | |
| CHEM 3010/3010L: Organic Chemistry I/Lab | 4 | BIOL 2100/2100L: Microbiology and Health/Lab | 4 | |
| PHYS 2310/2310L: Principles of Physics - Electricity & Magnetism/Lab (Natural Science) | 4 | Behavioral and Social Science (ECON 1010) | 3 | |
| | 17 | | 16-17 | |
| Third Year – 30 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/Lab | 4 | |
| ENME 3400: Engineering Materials Science | 3 | ENCH 3320: Heat Transfer Process | 3 | |
| Non-Western Culture | 3 | Fine Arts and Humanities* | 3 | |
| | 13 | | 17 | |
| Fourth Year – 32-33 Hours | | | | |
| Fall Semester: | Hrs | Spring Semester: | Hrs | |
| ESC 4100: Environmental Law and Agencies | 3 | ENCH 4300: Chemical System Design | 3 | |
| GEOL 4450: Hydrology | 3 | ENCH 4340: Chemical Kinetics and Reactor Design | 3 | |
| ENCH 4330: Chemical Process Operations | 3 | ENCE 4380: Wastewater and Water Treatment * | 3 | |
| ENCH 4350: Chemical Processes Lab | 2 | Fine Arts and Humanities** | 3 | |
| ENCH 4290: Intro to Chemical Engineering Design | 3 | Behavioral and Social Science (ECON 1020) | 3 | |
| ENCH 4250: Sustainability Engineering | 3 | Elective | 0-1 | |
| | 17 | | 15-16 | |

^{*}ENCE 3380 may be required as a prerequisite for ENCE 4380.

^{**}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 | | 106 Program (Major) Hours | | |
| 32 Hours at UTC | | Minor (Not Required) | | |
| 60 Hours at 4-year Institution | | Electives (Not Required) | | |
| | | Foreign Language (Not Required) | | |