

[Please see the Courses section of this catalog for complete course descriptions.](#)

<b>First Year – 30-32 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
ENME 1030/1030L: <i>Basic Engineering Science/Lab</i>	4	ENCE 1040: <i>Vector Statics</i>	3
ENCE 1010: <i>Intro to Civil Engineering</i>	2	CHEM 1110/1110L: <i>General Chemistry I/Lab</i> (Nat. Science)	4
ENCE 1020: <i>Intro to Engineering Graphics</i>	1	MATH 1920: <i>Calculus II</i> (or 1960)	3-4
MATH 1950: <i>Calculus w Analytic Geometry I</i> (Math)	4	MATH 2200: <i>Elementary Linear Algebra</i>	3
ENGL 1010 or 1011 (Rhetoric and Writing I)	3-4	ENGL 1020 or HIST 2100 (Rhetoric and Writing II)	3
	14-15		15-16
<b>Second Year – 35-37 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
ENCE 2460/2460L: <i>Mechanics of Materials/Lab</i>	4	ENCE 2220: <i>Probability &amp; Stats for Engineering</i> (Stats)	3
ENCE 2010: <i>Intro to Environmental Engineering</i>	3	ENME 2240: <i>Intro to Engineering Computations</i>	3
MATH 2450: <i>Intro to Differential/Difference Equations</i>	3	ENME 2480: <i>Dynamics</i>	3
PHYS 2310/2310L: <i>Principles of Physics - Electricity &amp; Magnetism/Lab</i> (Natural Science)	4	MATH 2550: <i>Multivariable Calculus</i> (or 2560)	3-4
Fine Arts and Humanities*	3	ENCE 2620/2620L: <i>Intro to Geomatics/Lab</i>	3
		Approved Science Elective	3-4
	17		18-20
<b>Third Year – 33 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
ENME 3070/3070L: <i>Fluid Mechanics/Lab</i>	4	ENCE 3610/3610L: <i>Soil Mechanics/Lab</i>	4
ENCE 3640: <i>Structural Analysis I</i>	3	ENCE 3680: <i>Design of Concrete Structures</i>	3
ENCE 3500/3500L: <i>Civil Engineering Materials/Lab</i>	4	ENCE 3380: <i>Water Resources Engineering</i>	3
Engineering Speciality Elective (3000 Level)	3	ENCE 3520: <i>Engineering Economy</i>	3
Behavioral and Social Science (ECON 1020)	3	Behavioral and Social Science (ECON 1010)	3
	17		16
<b>Fourth Year – 30 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
ENCE 3850: <i>Interdisciplinary Design Project I</i>	3	ENCE 4500: <i>Civil Engineering Design Project</i>	3
ENCE 3620: <i>Transportation Engineering I</i>	3	ENCE 4620: <i>Transportation Engineering II</i>	3
ENCE 4610: <i>Foundation Analysis Design</i>	3	ENCE 4380: <i>Wastewater/Water Treat</i> , 4640: <i>Struct Analysis II</i> , or 4780: <i>Struct Masonry/Wood Design</i>	3
ENCE 4680: <i>Design of Steel Structures</i>	3	Fine Arts and Humanities*	3
Engineering Specialty Elective (4000 Level)	3	Non-Western Culture	3
	15		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.

<b>Completed:</b>			
<b>Graduation Requirements:</b>	<b>Hrs</b>	<b>Degree Requirements:</b>	<b>Hrs</b>
128 Total Hours		24-25 General Education Hours	
39 Upper Division (3000-4000) Hours		104 Program (Major) Hours	
32 Hours at UTC		Minor ( <i>Not Required</i> )	
60 Hours at 4-year Institution		Electives ( <i>Not Required</i> )	
		Foreign Language ( <i>Not Required</i> )	