

First Year

Fall Semester – 16 Semester Credit Hours

CE 1105 Introduction to Civil Engineering
CHEM 1465 Chemistry for Engineers
ENGL 1301 Rhetoric and Composition I
CE 1353 Intro to Computer Aided Design Tools in CE
ENGR 1101 Entrance to Engineering for Transfer Students
or UNIV 1131
MATH 1426 Calculus I

Second Year

Fall Semester – 16 Semester Credit Hours

CE 2311 Statics
CE 2331 Engineering Measurement & Computer Modeling
HIST 13XX U.S. History Elective
MATH 2326 Calculus III
PHYS 1444 General Technical Physics II

Third Year

Fall Semester – 17 Semester Credit Hours

CE 3210 CE Communications
CE 3253 Applications of Computer-Based Design Programs
 in CE
CE 3361 Property & Behavior of CE Materials
CE 3305 Basic Fluid Mechanics
CE 3341 Structural Analysis
CE 3343 Soil Mechanics
CE 3143 Properties & Behavior of Soils

Fourth Year

Fall Semester – 15 Semester Credit Hours

CE 3347 Reinforced Concrete Design
CE 3328 Water Systems Design
CE 4352 Professional Practice
CE 43XX Senior Technical Elective (1)
Language, Philosophy, and Culture Elective

Spring Semester – 17 Semester Credit Hours

IE 2308 Engineering Economy
HIST 13XX U.S. History Elective
MATH 2425 Calculus II
PHYS 1443 General Technical Physics I
POLS 2311 Government of the United States

Spring Semester – 17 Semester Credit Hours

CE 2221 Dynamics
CE 2313 Mechanics of Materials
CE 3301 Stochastic Models for CE
COMS 2302 Professional & Technical Communications for
 Scientists & Engineers
GEOL 3340 Geology for Engineers
MATH 3319 Differential Equations & Linear Algebra

Spring Semester – 17 Semester Credit Hours

CE 3302 Transportation Engineering
CE 3311 Construction Engineering
CE 3334 Principles of Environmental Engineering
CE 3131 Environmental Analysis
CE 3342 Introduction to Water Resources
CE 3142 Applied Fluid Mechanics Lab
POLS 2312 State and Local Government

Spring Semester – 15 Semester Credit Hours

CE 4383 Senior Project
CE 43XX Senior Technical Elective (2)
CE 43XX Senior Technical Elective (3)
CE 43XX Senior Technical Elective (4)

Creative Arts Elective

COE Foreign Language Requirement: Two years of same foreign language in high school or six semester credit hours of the same foreign language.

General Core Requirements

- The UTA Civil Engineering Program requires one (three SCH) *Creative Arts Elective*. This elective can be chosen from the following list of courses offered at UTA.

ARCH 1301	Introduction to Architecture & Interior Design
ART 1301	Art Appreciation
ART 1309	Art of the Western World I
ART 1310	Art of the West II
MUSI 1300	Music Appreciation
THEA 1342	Theatre and Film Appreciation
THEA 1343	Introduction to Theatre
MUSI 1302	Jazz Appreciation
MUSI 2300	Intro to World Music
MUSI 2301	Film Music Appreciation

- Students majoring in Civil Engineering must take **IE 2308**, which is a *Social & Behavioral Sciences* elective option. If a student has taken a different course from the approved Social & Behavioral Sciences elective list, it will be counted as part of your core curriculum. However, IE 2308 will also need to be completed to satisfy the course requirement for the Architectural Engineering degree plan.
- The UTA Civil Engineering Program requires one (three SCH) *Language, Philosophy & Culture Elective*. This elective can be chosen from the following list of courses offered at UTA.

ANTH 2322	Global Cultures	HIST 2377	Flight Culture and the Human Experience
ARAB 2310	Arabic Culture in the World	INTS 1310	Introduction to Popular Culture
ARAB 2314	Intermediate Arabic II	KORE 2310	Korean Culture in the World
ARCH 2300	Masterworks of Western Architecture	KORE 2314	Intermediate Korean II
ART 1317	The Art of Non-Western Traditions	LATN 2314	Latin Level IV
CHIN 2310	Chinese Culture in the World	LING 2371	Language in a Multicultural USA
CHIN 2314	Intermediate Chinese II	MAS 2300	Intro to Mexican American Studies
CLAS 1300	Introduction to Classical Mythology	PHIL 1304	Contemporary Moral Problems
ENGL 2303	Topics in Literature	PHIL 2300	Introduction to Philosophy
ENGL 2309	World Literature	PORT 2314	Intermediate Portuguese II
ENGL 2319	British Literature	RUSS 2310	Russian Culture in the World
ENGL 2329	American Literature	RUSS 2314	Intermediate Russian II
FREN 2310	French and Francophone Cultures in the World	SOCI 1310	Introduction to Popular Culture (proposed)
FREN 2314	Intermediate French II	SPAN 2310	Hispanic Culture in the World
GERM 2310	German Culture in the World	SPAN 2314	Intermediate Spanish II
GERM 2314	Intermediate German II	WOMS 2310	Intro to Women's & Gender Studies
GLOBAL 2301	Introduction to Global Studies		
GREK 2314	Greek Level IV		

Senior Elective

A list of Civil Engineering Senior Technical Electives is available upon request.

Civil Engineering Curriculum & Requisites – 2021

Freshman Year, Fall Semester

16 Semester Credit Hours

Pre-Professional Courses:

CE 1105 Introduction to Civil Engineering

CHEM 1465 Chemistry for Engineers – Corequisite: MATH 1421

ENGL 1301 Rhetoric and Composition I

CE 1353 Intro to Computer Aided Design Tools in CE – Corequisite: MATH 1421

UNIV 1131 or ENGR 1101 Entrance to Engineering for Transfer Students

Freshman Year, Spring Semester

17 Semester Credit Hours

Pre-Professional Courses:

IE 2308 Engineering Economy – Corequisite: MATH 1426

MATH 2425 Calculus II – Prerequisite: MATH 1426

PHYS 1443 General Technical Physics I – Prerequisite: MATH 1426

General Education Courses:

US History Elective

POLS 2311 Government of the US

Sophomore Year, Fall Semester

16 Semester Credit Hours

Pre-Professional Courses:

CE 2311 Statics – Prerequisite: PHYS 1443

CE 2331 Engineering Measurement & Computer Modeling – Prerequisite: CE 1353

MATH 2326 Calculus III – Prerequisite: MATH 2425

PHYS 1444 General Technical Physics II – Prerequisite: PHYS 1443, Corequisite: MATH 2425

General Education Courses:

US History Elective

Sophomore Year, Spring Semester

17 Semester Credit Hours

Pre-Professional Courses:

CE 2221 Dynamics – Prerequisite: CE 2311 & MATH 2425

CE 2313 Mechanics of Materials – Prerequisites: CE 2311 & MATH 2425

COMS 2302 Professional & Technical Communication for Scientists & Engineers – Prerequisites: 30 Semester Credit hours completed & ENGL 1301

MATH 3319 Differential Equations & Linear Algebra – Corequisite: MATH 2326

Professional Courses:

CE 3301 Stochastic Models – Prerequisite: MATH 2425

GEOL 3340 Geology for Engineers – Prerequisites: CHEM 1465 & PHYS 1443

Civil Engineering Curriculum & Requisites – 2021

Junior Year, Fall Semester

16 Semester Credit Hours

Professional Courses:

CE 3210 CE Communications – Prerequisite: COMS 2302

CE 3253 Applications of Computer-Based Design Programs in CE – Prerequisite: CE 1353 & CE 2331

CE 3305 Basic Fluid Mechanics – Prerequisite: CE 2311; Corequisite: MATH 3319

CE 3341 Structural Analysis – Prerequisite: CE 2313

CE 3343 Soil Mechanics – Prerequisite: CE 2313; Corequisite: CE 3143

CE 3143 Properties & Behavior of Soils – Corequisite: CE 3343

CE 3361 Properties & Behavior of CE Materials – Prerequisite: CE 2313 & CHEM 1465

Junior Year, Spring Semester

17 Semester Credit Hours

Professional Courses:

CE 3302 Transportation Engineering – Prerequisite: CE 2331 & CE 3301

CE 3311 Construction Engineering – Prerequisite: IE 2308

CE 3334 Principles of Environmental Engineering – Prerequisite: CHEM 1465 & CE 3305; Corequisite: CE 3131

CE 3131 Environmental Analysis – Corequisite: CE 3334

CE 3342 Introduction to Water Resources – Prerequisite: CE 3301 & CE 3305; Corequisite: CE 3142

CE 3142 Applied Fluid Mechanics Lab – Corequisite: CE 3342

General Education Courses:

POLS 2312 State and Local Government

Senior Year, Fall Semester

15 Semester Credit Hours

Professional Courses:

CE 3328 Water System Design – Prerequisite: CE 3342

CE 3347 Reinforced Concrete Design – Prerequisite: CE 3341

CE 4352 Professional Practice – Prerequisite: CE 3311

CE 43XX Senior Technical Elective (1)

General Education Courses:

Language, Philosophy, and Culture Elective

Senior Year, Spring Semester

15 Semester Credit Hours

Professional Courses:

CE 4383 Senior Elective – Prerequisites: CE 4352, one design course and All 3000 level courses

CE 43XX Senior Technical Elective (2)

CE 43XX Senior Technical Elective (3)

CE 43XX Senior Technical Elective (4)

General Education Courses:

Creative Arts Elective