Bachelor of Science in Civil Engineering
(This document serves as a supplement to the UTA Undergraduate 2013-14 Catalog, the on-line version of which is the official source of university information.)

Civil Engineering Pre-Professional Courses:

**Freshman 1st Semester 16 hrs.**
- CE 1104 Introduction to Engineering *
- CE 1105 Introduction to Civil Engineering *
- MATH 1426 Calculus I* 
- CHEM 1465\(^1\) Chemistry for Engineers* 
- HIST 1311 History of the United States I
- ENG 1301 Rhetoric & Composition I*

**Freshman 2nd Semester 17 hrs.**
- PHYS 1443 General Technical Physics I (with lab)*
- MATH 2425 Calculus II*
- CE 1252 Computer Tools – AutoCAD*
- POLS 2311 Government of the United States
- ENGL 1302 Rhetoric & Composition II*

**Sophomore 1st Semester 17 hrs.**
- CE 2311 Statics*
- PHYS 1444 General Technical Physics II (with lab)*
- MATH 2326 Calculus III*
- CE 1252 Computer Tools – AutoCAD*
- CE 2331 Engineering Measurement & Computer Modeling*
- MAE 3309 Thermal Engineering*
- GEOL 3340 Geology for Engineers*
- COMS 2302 Professional & Technical Communication*

**Sophomore 2nd Semester 17 hrs.**
- CE 2210 Particle Dynamics*
- CE 2313 Mechanics of Materials*
- MATH 3319 Differential Equations and Linear Algebra*
- MAE 3309 Thermal Engineering*
- GEOL 3340 Geology for Engineers*

*Pre-professional: Grade of C or better required.
\(^1\) Pre-requisite: HS Chemistry; Co-requisite: MATH 1323 or higher. CHEM 1441 AND 1442 (with labs) may be substituted for CHEM 1465.
\(^2\) Pre-requisite: completion of at least 30 credit hours and ENGL 1302. Approved combinations of Speech and Technical Writing courses may be substituted for COMS 2302.

A GRADE OF C OR BETTER IS REQUIRED IN ALL COURSES THAT ARE PRE-REQUISITES FOR CE COURSES.

Updated July 2013
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Civil Engineering Professional Courses:

**Prerequisite**

- MATH 2326 Calculus III*
- CE 2210 Dynamics*
- CE 2313 Mechanics of Materials*
- MATH 3319 Differential Equations and Linear Algebra*
- CE 2331 Engineering Measurement & Computer Modeling*
- CHEM 1465 Chemistry for Engineers*
- CE 2331 Engineering Measurement & Computer Modeling*
- CHEM 1465 Chemistry for Engineers*
- COMS 2302 Professional & Technical Communication*

**Junior 1st Semester**

- 17 hrs.
- CE 3301 Stochastic Models for Civil Engineering*
- CE 3305 Basic Fluid Mechanics*
- CE 3343 and CE 3143 Soil Mechanics Lecture and Lab
- CE 3341 Structural Analysis
- CE 3261 and CE 3161 Properties and Behavior of Civil Engineering Materials Lecture and Lab
- CE 3110 Civil Engineering Communications

**Junior 2nd Semester**

- 17 hrs.
- CE 3142 Applied Fluid Mechanics Lab
- CE 3309 Introduction to Hydrology
- CE 3310 Construction and Value Engineering
- CE 3334 and CE 3131 Principles of Environmental Engineering Lecture and Environmental Analysis Lab
- CE 3302 Transportation Engineering
- ELECTIVE Social/Cultural Elective

**Senior 1st Semester**

- 15 hrs.
- CE 3309 Introduction to Hydrology
- CE 3310 Construction and Value Engineering
- CE 3334 and CE 3131 Principles of Environmental Engineering Lecture and Environmental Analysis Lab
- CE 3302 Transportation Engineering
- ELECTIVE Social/Cultural Elective

**Senior 2nd Semester**

- 15 hrs.
- CE 3309 Introduction to Hydrology
- CE 3310 Construction and Value Engineering
- CE 3334 and CE 3131 Principles of Environmental Engineering Lecture and Environmental Analysis Lab
- CE 3302 Transportation Engineering
- ELECTIVE Social/Cultural Elective

*Pre-professional: Grade of C or better required.

3. CE 4347 may not be required if the student chooses an Area of Concentration. See CE advisor regarding course requirements for Area of Concentration and General Civil Engineering options.

4. CE 4352 (grade of C or better), all required 3000 level CE courses and a minimum of one CE design course (grade of C or better) must be completed prior to taking CE 4383.