### Freshman First Semester
- **CE 1105**: Introduction to Civil Engineering
- **CHEM 1465**: Chemistry for Engineers (HS Chemistry, MATH 1421(CO))
- **ENGL 1301**: Rhetoric and Composition I
- **ENG 1250**: Engineering Problem Solving (MATH 1421(CO))
- **ENGR 1101**: Entrance to Engineering for Transfer Students (OR UNIV 1131)
- **MATH 1426**: Calculus I (Qualifying MPT score)

### Freshman Second Semester
- **CE 1252**: Computer Tools – AutoCAD (MATH 1421)
- **HIST 1301**: History of the US to 1865 (ENGL 1301(CO))
- **MATH 2425**: Calculus II (MATH 1426)
- **PHYS 1443**: General Technical Physics I (MATH 1426)
- **POLS 2311**: Government of the United States

### Sophomore First Semester
- **CE 2153**: Computer Tools – Civil 3D (CE 1252)
- **CE 2311**: Statics (PHYS 1443)
- **CE 2331**: Engineering Measurement and Computer Modeling (CE 1252)
- **HIST 1302**: History of the US, 1865 to Present (ENGL 1301(CO))
- **MATH 2326**: Calculus III (MATH 2425)
- **PHYS 1444**: General Technical Physics II (PHYS 1443, MATH 2425(CO))

### Sophomore Second Semester
- **CE 2221**: Dynamics (CE 2311, MATH 2425)
- **CE 2313**: Mechanics of Materials I (AREN 2311, MATH 2425)
- **COMS 2302**: Prof & Tech Com. for Sci. & Engrs (ENGL 1301, ENGR 1300, 30+ SCH)
- **GEOL 3340**: Geology for Engineers (CHEM 1465, PHYS 1443)
- **IE 2308**: Engineering Economy (MATH 1426(CO))
- **MATH 3319**: Diff Equations & Linear Algebra (MATH 2366(CO))

### Junior First Semester
- **CE 3210**: CE Communication (COMS 2302)
- **CE 3361**: Prop. and Behavior of CE Materials (CE 2313, CE 3161(CR), CHEM 1465)
- **CE 3301**: Stochastic Models for CE (MATH 2425)
- **CE 3305**: Basic Fluid Mechanics (CE 2311, MATH 3310(CR))
- **CE 3341**: Structural Analysis (CE 2313)
- **CE 3343**: Soil Mechanics (CE 2313, CE 3143(CR))
- **CE 3143**: Properties and Behavior of Soils (CE 3343(CR))

### Junior Second Semester
- **CE 3302**: Transportation Engineering (CE 2311, CE 3301 or IE 3301)
- **CE 3311**: Construction Engineering (IE 2308)
- **CE 3334**: Prin. of Environmental Engineering (CHEM 1465, CE 3311(CR), CE 3305)
- **CE 3313**: Environmental Analysis (CE 3334(CR))
- **CE 3342**: Introduction to Water Resources (CE 3142(CR), CE 3301, CE 3305)
- **CE 3142**: Applied Fluid Mechanics Lab (CE 3342(CR))
- **POLS 2312**: State and Local Government

### Senior First Semester
- **CE 3347**: Reinforced Concrete Design (CE 3341)
- **CE 3328**: Water System Design (CE 3342)
- **CE 43xx**: Senior Technical Elective (1)
- **CE 43xx**: Senior Technical Elective (2)
- **CE 43xx**: Senior Technical Elective (3)
- **CE 43xx**: Senior Technical Elective (4)

### Senior Second Semester
- **CE 4383**: Senior Project (CE 4352, one design course, all 3000 level courses)
- **CE 4352**: Professional Practice (CE 3311)
- **CE 43xx**: Senior Technical Elective (2)
- **CE 43xx**: Senior Technical Elective (4)

*Language, Philosophy, and Culture Elective
Civil Engineering Course Information

- A course number shown with an asterisk (HiST 1311*) is a General Education course. These courses are neither pre-professional nor professional program Civil Engineering courses.
- A course number shown with normal weight and without an asterisk (CE 1105) is a Civil Engineering pre-professional course. A grade of C or better must be earned in each Civil Engineering pre-professional course.
- A course number shown in bold (CE 3341) is a Civil Engineering professional program course. Enrollment in a 3000 or 4000 level Civil Engineering professional program course requires admission to the Civil Engineering professional program or written permission from the department academic advisor.
- Requisite courses are shown in parentheses (MATH 1323). A requisite course designated CO (MATH 1421CO) may be taken concurrently at UTA. A requisite course designated CR (CE 3143CR) must be taken concurrently at UTA. All other requisite courses are prerequisites. Civil Engineering majors (CE, CE Intended, and CE UCOL) may not attempt a course before earning a grade of C or better in all prerequisite courses.

Core Electives

- 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.

UTA Creative Arts Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 1301</td>
<td>Introduction to Architecture &amp; Interior Design</td>
<td>THEA 1342</td>
<td>Theatre and Film Appreciation</td>
</tr>
<tr>
<td>ART 1301</td>
<td>Art Appreciation</td>
<td>THEA 1343</td>
<td>Introduction to Theatre</td>
</tr>
<tr>
<td>ART 1309</td>
<td>Art of the Western World I</td>
<td>MUSI 1302</td>
<td>Jazz Appreciation</td>
</tr>
<tr>
<td>ART 1310</td>
<td>Art of the West II</td>
<td>MUSI 2300</td>
<td>Intro to World Music</td>
</tr>
<tr>
<td>MUSI 1300</td>
<td>Music Appreciation</td>
<td>MUSI 2301</td>
<td>Film Music Appreciation</td>
</tr>
</tbody>
</table>

- 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.

UTA Language, Philosophy & Culture Electives

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

Senior Elective

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