# Bachelor of Science – Civil Engineering

## Degree Plan (checklist)

### UTEP ID

**NOTE:** Overall GPA \( \geq 2.0 \) AND In-Major GPA \( \geq 2.0 \) REQUIRED for graduation

## Catalog: 2013-14

Expires: 08/01/2020

### Core Curriculum (48 SCH)

- **Communication (9 credit hours required)**
  - ENGL 1311*: Expos. English Composition
  - ENGL 1312*: Research & Critical Writing
  - COMM 1302* or 1301*: Business/Profession. Comm.

- **Mathematics (4)**
  - MATH 1411*: Calculus I

- **Natural Science (7)**
  - CHEM 1305**+1105* General Chemistry
  - CHEM 1306* General Chemistry

- **Humanities (3)**
  - Circle one:
    - ENGL 2311*, 2312*, 2313*, 2314*, 2318*,
    - HIST 2301*, 2302*, PHIL 1301*, 2306*

- **Visual and Performing Arts (3)**
  - Circle one:
    - ART 1300*, ARTH 1305*, 1306*, DANC 1304*,
    - MUSL 1321*, 1324*, 1327*, THEA 1313*, FILM 1390*

- **U.S. History (6)**
  - HIST 1301* History of the U.S. to 1865
  - HIST 1302* History of the U.S. since 1865

- **Political Science (6) -- all 6 SCH must be completed at the same institution**
  - POLS 2310* Introduction to Politics
  - POLS 2311* American Govt. & Politics

- **Social and Behavioral Sciences (3)**
  - CE 2326* Econ. For Engrs & Scientists

- **Institutionally Designated Option (3)**
  - Circle one:
    - UNIV 1301* or UNIV 2350*

### Foundational Math & Science (13 SCH)

- **Communications:**
  - MATH 1312* Calculus II
  - MATH 2313* Calculus III
  - MATH 2326* Differential Equations
  - PHYS 2420* Introductory Mechanics

### Major: Required Lower Division Courses (20 SCH)

- CE 1205*: Graphic Fundamentals in Engineering Design
- CE 2315*: Statics
- CE 2334*: Mechanics of Materials
- CE 2377*: Electro Mechanical Systems (MECH 2342)
- CE 2338*: Mechanics II-Dynamics (MECH 2340)
- CE 2375*: Introduction to Thermal-Fluid Science
- CE 2341*: Engineering Analysis 1 (MECH 3352)

### Major: Required Upper Division Courses (51 SCH)

- CE 3313 Engineering Measurements
- CE 3325 Environmental Engineering Fundamentals
- CE 3335 Geological Engineering (GEOL 3321)
- CE 3336 Civil Engineering Materials
- CE 3343 Structural Analysis I
- CE 3345 Structural Design I
- CE 3373 Engr Probability and Statistical Model (IE 3373)
- CE 3456 Hydraulic Engineering
- CE 4153 Water & Waste Laboratory
- CE 4188 Senior Design I
- CE 4195 Senior Professional Orientation
- CE 4288 Senior Design II
- CE 4334 Construction Management I
- CE 4340 Transportation Engineering
- CE 4342 Water and Wastewater Engineering
- CE 4348 Geotechnical Engineering
- CE 4361 Structural Design II
- CE 4375 Advanced Topics in Civil Engineering I
- CE 4376 Advanced Topics in Civil Engineering II

### Equivalent Course

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<th>Institution where course was taken</th>
<th>Course on degree plan to substitute</th>
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### Substitutions**

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* -- C or better required

** -- requires submission of an official substitution form

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**BSCE Total Hours 128**