**UTEP Bachelor of Science in Civil Engineering: 128 credit hours**

### LOWER-DIVISION\(^1\)

#### FRESHMAN YEAR

**Fall:** 18 hrs.
- CHEM 1305 Chemistry I Lect/Wkshp *MATH 1411
- CHEM 1105 Chemistry I Lab *CHEM 1305
- ENGL 1311 Expos. English Comp. -
- MATH 1411 Calculus I -
- PHYS 2420 Intro. Mechanics Lect/Sem/Lat *MATH 1411
- UNIV 1301 Elective (UNIV 2350) -

**Spring:** 17 hrs.
- CE 1205 Graphics Fundmntls. (IE 1205) -
- CE 2315 Statics *MATH 1411
- ENGL 1312 Research & Crit. Writing *ENGL 1311
- HIST 1301 Hist. of US to 1865 -
- MATH 1312 Calculus II *MATH 1411
- POLS 2310 Intro. to Politics -

#### SOPHOMORE YEAR

**Fall:** 18 hrs.
- CE 2334 Mech. of Materials *CE 2315
- CE 2377 Electro-Mech. (IE 2377, ME 2342) *MATH 1312
- CHEM 1306 General Chemistry II *CHEM 1305
- MATH 2313 Calculus III *MATH 1312
- POLS 2311 American Govern. & Pol. -
- COMM 1301 Elective (COMM 1302) -

**Spring:** 18 hrs.
- CE 2326 Economics for Engr. & Sci.\(^2\) -
- CE 2338 Dynamics/Mech. II (ME 2340) *CE 2315, MATH 1312
- CE 2341 Engr. Analysis I (ME 3352) *CE 2315, MATH 2313
- CE 2375 Thermal-Fluid Sci. *CE 2338, MATH 1312
- HIST 1302 History of the US since 1865 -
- MATH 2326 Differential Equations *MATH 1312

### RISING JUNIOR EXAM (RJE)
RJE taken during last Sophomore semester; passing RJE score required to register for Junior- and Senior-level courses. See [http://ce.utep.edu/](http://ce.utep.edu/) for scheduling. No fee for first exam; $25 fee for all retakes. Courses tested: CE 2315, 2334, 2338; CHEM 1305, 1306; MATH 1411, 1312, 2313, 2326.

### UPPER-DIVISION\(^3\)

#### JUNIOR YEAR

**Fall:** 15 hrs.
- CE 3313 Engineering Measurements *CE 1205
- CE 3325 Environmental Engr. Fund. *CE 2375
- CE 3343 Structural Analysis I *CE 2334
- CE 3373 Engr. Prob. & Stat. (IE 3373) *MATH 2313 Humanities Elective\(^4\) -

**Spring:** 16 hrs.
- CE 3335 Geological Engr. (GEOL 3321) *CE 1205
- CE 3336 Civil Engr. Materials -
- CE 3345 Structural Design I *CE 3343
- CE 3456 Hydraulic Engineering *CE 2375, 3373

#### SENIOR YEAR

**Fall:** 13 hrs.
- CE 4188 Senior Design I *100 hrs., Dept. App.
- CE 4340 Transportation Engr. *CE 3313, 3373
- CE 4348 Geotechnical Engr. *CE 2334, 3335, 3336
- CE 4361 Structural Design II *CE 3343
- CE 4375 Advanced Topics in CE I *Dept. App.

**Spring:** 13 hrs.
- CE 4195 Senior Professional Orient.\(^6\) -
- CE 4288 Senior Design II -
- CE 4334 Construction Management I *CE 2326
- CE 4342 Water & Waste Water Engr. *CE 2375
- CE 4153 Water & Waste Laboratory *CE 4342

### FUNDAMENTALS OF ENGINEERING (FE) EXAM
FE Exam taken during final/graduating semester in coordination with CE 4195 (SPO); passing FE score required to become a certified EIT. EIT and four years of experience are required to take PE Exam. For more information, see: [http://www.ncees.org/Exams/FE_exam.php](http://www.ncees.org/Exams/FE_exam.php) and [http://www.tbpe.state.tx.us/](http://www.tbpe.state.tx.us/).

### Notes:
- (Equivalent Course): *Prerequisite Course (or Corequisit if scheduled for the same semester); Course credit hours indicated by second digit of course number.
- \(^1\) A grade of “C” or better must be achieved for all Lower-Division courses, including the Arts and Humanities electives, as well as CE 3373.
- \(^2\) Meets 3 credit hours of Social and Behavioral Science Requirements.
- \(^3\) A passing score on the RJE is required before registering for any Upper-Division (Junior or Senior) courses.
- \(^4\) Select a HUMANITIES course from ENGL 2311, 2312, 2313, 2314, 2318; HIST 2301, 2302; PHIL 1301, 2306
- \(^5\) Select an ART course from ART 1300; ARTH 1305, 1306; ARTS 3320; DANC 1304; FILM 1390; MUSL 1321, 1324, 1327; THEA 1313
- \(^6\) A passing score on the FE guarantees a passing grade in CE 4195 (Senior Professional Orientation).

Revised: 6 Jul 2011