

## 2016-2017 UTEP Bachelor of Science in Civil Engineering

<b><u>LOWER-DIVISION</u></b>				<b><u>UPPER-DIVISION</u></b>			
<b>FRESHMAN YEAR</b>				<b>JUNIOR YEAR</b>			
<i>17 hrs.</i>				<i>16 hrs.</i>			
CE	1301	Civil Engineering Fundamentals <sup>1</sup>	**MATH 1411	CE	3336	Civil Engr. Materials	*CE 2334
UNIV	1301	Foundations of Engineering <sup>1</sup>	-	CE	3345	Design of Concrete Structures	*CE 2343
MATH	1411	Calculus I <sup>1</sup>	-	CE	2326	Economics for Engr. & Sci. <sup>1</sup>	-
CHEM	1305	General Chemistry I <sup>1</sup>	-	CE	3456	Hydrology & Hydraulic Eng.	*CE 2375
CHEM	1105	Laboratory for General Chemistry I <sup>1</sup>	*CHEM 1305	POLS	2310	Introduction to Politics <sup>1</sup>	-
RWS	1301	Rhetoric and Composition I <sup>1</sup>	-				
<i>15 hrs.</i>				<i>16 hrs.</i>			
CE	2315	Statics <sup>1</sup>	*MATH 1411, *CE 1301	CE	3348	Geotechnical Engineering	*CE 2335, *CE 3336
MATH	1312	Calculus II <sup>1</sup>	*MATH 1411	CE	3361	Design of Steel Structures	*CE 2343
CHEM	1306	General Chemistry II <sup>1</sup>	*CHEM 1305, *MATH 1411	CE	3334	Construction Management I	-
CE	1313	Engineering Measurements <sup>1</sup>	-	CE	3342	Water & Waste Water Engr.	*CE 2375
RWS	1302	Rhetoric and Composition II <sup>1</sup>	*RWS 1301	CE	3153	Water & Waste Laboratory	*CE 3342
				POLS	2311	American Gov. & Politics <sup>1</sup>	*POLS 2310
<b>SOPHOMORE YEAR</b>				<b>SENIOR YEAR</b>			
<i>18 hrs.</i>				<i>14 hrs.</i>			
CE	2334	Mech. of Materials <sup>1</sup>	*CE 2315	CE	4340	Transportation Engr.	*CE 1313
MATH	2313	Calculus III <sup>1</sup>	*MATH 1312	CE	4188	Senior Design I	Dept. App.
CE	2335	Geological Engineering (GEO 3321) <sup>1</sup>	-	CE	4339	Geostructural Design	*CE 3348
CE	2338	Mechanics II / Dynamics <sup>1</sup>	*CE 2315, *MATH 1312	CE	4195	Senior Professional Orient.	-
CS	1320	Computer Programming Sci/Engr <sup>1</sup>	*MATH 1508	CE	4375	Advanced Topics in CE	Dept. App.
HIST	1301	History of the US since 1865 <sup>1</sup>	-	Creative Arts Elective <sup>*,3,1</sup>			
<i>18 hrs.</i>				<i>14 hrs.</i>			
CE	2343	Structural Analysis <sup>1</sup>	*CE 2334	CE	4288	Senior Design II	*CE 4188
CE	2375	Intro. to Thermal-Fluid Science <sup>1</sup>	*CE 2334	CE	2377	Electro Mech. Systems (IE 2377) <sup>1</sup>	*MATH 1312
MATH	2326	Differential Equations <sup>1</sup>	*MATH 1312	CE	4376	Advanced Topics in CE II	Dept. App.
HIST	1302	History of the US since 1865 <sup>1</sup>	-	CE	4377	Advanced Topics in CE III	Dept. App.
CE	2373	Engr. Prob. & Stat. (IE 3373) <sup>1</sup>	*MATH 2313	Language Phil. & Cult. Elective <sup>*,2,1</sup>			
CE	2385	Environmental Engr. Fund. <sup>1</sup>	*CHEM 1306				

**Notes:**

Courses in ( ) are Equivalent and/or Approved Substitutions

\*Prerequisite Course

\*Corequisite if scheduled for the same semester.

<sup>1</sup> A grade of "C" or better must be achieved for all Lower-Division courses, including the Arts and Humanities electives, as well as CE 2373 (IE 3373) & CE 2335 (GEO 3321)

<sup>2</sup> Select a Lang. Philosophy and Culture course from ENGL 2311, 2312, 2313, 2314, 2318; FREN 2322; HIST 2301, 2302; PHIL 1301, 2306; RS 1301; SPAN 2340; WS 2300, 2350

<sup>3</sup> Select an ART course from ART 1300; ARTH 1305, 1306; ARTS 3320; DANC 1304; FILM 1390; MUSL 1321, 1324, 1327; THEA 1313; FILM 1390