

2019-2020 UTEP Bachelor of Science in Civil Engineering

<u>LOWER-DIVISION</u>				<u>UPPER-DIVISION</u>			
FRESHMAN YEAR				JUNIOR YEAR			
<u>17 hrs.</u>				<u>17 hrs.</u>			
CE	1301	Civil Engineering Fundamentals ¹	**MATH 1411	CE	2373	Eng Prob & Stats Models (IE 3373)	*MATH 2313
UNIV	1301	Foundations of Engineering ¹	-	CE	3336	Civil Engr. Materials	*CE 2334
MATH	1411	Calculus I ¹	-	CE	3345	Design of Concrete Structures	*CE 2343
PHYS	2420	Introductory Mechanics ¹	-	CE	2326	Economics for Engr. & Sci. ¹	-
RWS	1301	Rhetoric and Composition I ¹	-	CE	3456	Hydrology & Hydraulic Eng.	*CE 2375
<u>16 hrs.</u>				<u>15 hrs.</u>			
CE	2315	Statics ¹	*MATH 1411, *CE 1301, *PHYS 2420	CE	3348	Geotechnical Engineering	*CE 3336, **CE 2335
MATH	1312	Calculus II ¹	*MATH 1411	CE	3361	Design of Steel Structures	*CE 2343
CHEM	1305	General Chemistry I ¹	*CHEM 1105, *MATH 1411	CE	3334	Construction Management I	Jr & Sr
CHEM	1105	Laboratory for General Chemistry I	*CHEM 1305	CE	3342	Water & Waste Water Engr.	*CE 2375
CE	1313	Engineering Measurements ¹	*MATH 1508	POLS	2310	Introduction to Politics ¹	
RWS	1302	Rhetoric and Composition II ¹	*RWS 1301				
SOPHOMORE YEAR				SENIOR YEAR			
<u>18 hrs.</u>				<u>16hrs.</u>			
CE	2334	Mech. of Materials ¹	*CE 2315	CE	4340	Transportation Engr.	*CE 1313, *CE 2373
MATH	2313	Calculus III ¹	*MATH 1312	CE	4188	Senior Design I	Dept. App.
CE	2375	Introduction to Fluid Mechanics Science Elective (3 hrs towards degree) ²	*CE 2315	CE	4339	Geostructural Design	*CE 3348
CS	1320	Computer Programming Sci/Engr ¹	*MATH 1508	CE	4375	Advanced Topics in CE	Dept. App.
HIST	1301	History of the US since 1865 ¹	-	POLS	2311	American Government and Politics Creative Arts Elective ^{*,4,1}	POLS 2310 -
<u>18 hrs.</u>				<u>11 hrs.</u>			
CE	2343	Structural Analysis ¹ Dynamics Elective (3 hrs. towards degree) ³	*CE 2334	CE	4288	Senior Design II	*CE 4188
MATH	2326	Differential Equations ¹	*MATH 1312	CE	4376	Advanced Topics in CE II General Elective (3 hrs. towards degree) ⁵ Language Phil. & Cult. Elective ^{*,6,1}	Dept. App.
HIST	1302	History of the US since 1865 ¹	-				
CE	2385	Environmental Engr. Fund. ¹	*CHEM 1305, *CE 2375				
CE	2335	Geological Engineering (GEO 3321)					

Notes:

Courses in () are Equivalent and/or Approved Substitutions

*Prerequisite Course

**Corequisite if scheduled for the same semester.

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 2373 (IE 3373) & CE 2335 (GEO 3321)

²MATH 3323, PHYS 2421, CHEM 1306 OR BIOL 1305

³CE 2338¹ or PHYS 3331 (*Prerequisite for CE 2338 is CE 2315 and Math 1312*)

⁴Select an ART course from ART 1300; ARTH 1305, 1306; DANC 1304; MUSL 1324, 1327, 2321; THEA 1313; FILM 1390

⁵CE 4377, POLS 3350, POLS 3351; POL 4359, RWS 3359, ACCT 2301, MATH 3323, CHEM 1306

⁶Select 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