

# Bachelor of Science – Civil Engineering Degree Plan (checklist)

2019

Catalog: 2018-19  
Expires: 08/01/2025

Last Name \_\_\_\_\_

First Name \_\_\_\_\_ M.I. \_\_\_\_\_

UTEP ID \_\_\_\_\_

**NOTE: Overall GPA ≥ 2.0 AND In-Major GPA ≥ 2.0 REQUIRED for graduation**

A Core Curriculum (45 SCH) (minimum of "C" grade required)		Semester Completed	Final Grade	SCH	Sub #
<b>1 Communication (6 credit hours required)</b>					
RWS 1301*	Rhetoric and Composition I				
RWS 1302*	Rhetoric and Composition II				
<b>2 Mathematics (4)</b>					
MATH 1411*	Calculus I				
<b>3 Life and Physical Sciences (8)</b>					
CHEM 1305*	General Chemistry				
CHEM 1105*	Laboratory for CHEM 1305				
PHYS 2420*	Introductory Mechanics				
<b>4 Language, Philosophy, and Culture (3) Select and circle one</b>					
ENGL 2311*, 2312*, 2313*, 2314*, 2318*, FREN 2322*, HIST 2301*, 2302*, PHIL 1301*, 2306* RS 1301*, SPAN 2340*, WS 2300*, 2350*					
<b>5 Creative Arts (3) Select and circle one</b>					
ART 1300*, ARTH 1305*, 1306*, DANC 1304*, FILM 1390*, MUSL 1321*, 1324*, 1327*, THEA 1313*					
<b>6 American History (6)</b>					
HIST 1301*	History of the U.S. to 1865				
HIST 1302*	History of the U.S. since 1865				
<b>7 Government/Political Science (6) -- all 6 SCH must be completed at the same institution</b>					
POLS 2310*	Introduction to Politics				
POLS 2311*	American Govt. & Politics				
<b>8 Social and Behavioral Sciences (3)</b>					
CE 2326*	Econ. For Engrs & Scientists				
<b>9 Component Area Option (6)</b>					
UNIV 1301*	Foundations of Engineering				
CS 1320*	Computer Programming Sci/Engr				

B Foundational Math & Science (9 SCH)		Semester Completed	Final Grade	SCH	Sub #
MATH 1312*	Calculus II				
MATH 2313*	Calculus III				
MATH 2326*	Differential Equations				

SUBSTITUTIONS**				
Sub #	Course on degree plan to substitute	Institution where course was taken	Name of Course as it appears on UTEP Transcript	Course as it appears on UTEP Transcript
1				
2				
3				
4				

C Major: Required Lower Division Courses (33 SCH)		Semester Completed	Final Grade	SCH	Sub #
CE 1301*	Civil Engineering Fundamentals				
CE 1313*	Engineering Measurements				
CE 2315*	Statics				
CE 2334*	Mechanics of Materials				
CE 2335 <sup>a</sup>	Geological Engineering				
CE 2338* or PHYS 3331	Mechanics II-Dynamics or Thermal Physics				
CE 2343*	Structural Analysis I				
CE 2373 <sup>b</sup>	Engr Probability and Statistical Model				
CE 2375*	Introduction to Fluid Mechanics				
CE 2377 <sup>c</sup>	Electro Mechanical Systems				
CE 2385*	Environmental Engineering Fundamentals				
D Major: Required Upper Division Courses (42 SCH)		Semester Completed	Final Grade	SCH	Sub #
CE 3334	Construction Management				
CE 3336	Civil Engineering Materials				
CE 3342	Water and Wastewater Engineering				
CE 3345	Design of Concrete Structures				
CE 3348	Geotechnical Engineering				
CE 3361	Design of Steel Structures				
CE 3456	Hydrology and Hydraulic Engineering				
CE 4339	Geostructural Design				
CE 4340	Transportation Engineering				
CE 4188	Senior Design I				
CE 4288	Senior Design II				
CE 4195	Junior Professional Orientation				
CE 4375	Advanced Topics in Civil Engineering I				
CE 4376	Advanced Topics in Civil Engineering II				
E Lower Division Technical Elective (3 SCH) Circle the one you chose:		Semester Completed	Final Grade	SCH	Sub #
MATH 3323, PHYS 2421*, CHEM 1306*, BIOL 1305*					
F Upper Division Technical Elective (3 SCH) Circle the one you chose:		Semester Completed	Final Grade	SCH	Sub #
CE 4377, POLS 3350, POLS 3351, POLS 4359, RWS 3359, ACCT 2301*, MATH 3323, CHEM 1306*					

**NOTES:**

- a -- GEOL 3321, Geology for Engineers, may be substituted.
- b -- IE 3373, Engr. Probability & Stat. Models, may be substituted.
- c -- IE 2377, Electro-Mechanical Systems, may be substituted

\* -- C or better required

\*\* -- official substitution form available at <http://engineering.utep.edu/plaza/AcademicForms/index.html>

**BSCE Total Hours      128**

APPROVALS:	
ADVISOR	DATE
CHAIR	DATE