

**West Texas A&M University**  
**Advising Services**  
**Degree Checklist**  
**2018-2019**

(For assistance completing this form, contact Advising Services at 806-651-5300)

NAME: \_\_\_\_\_ WT ID: \_\_\_\_\_ DATE: \_\_\_\_\_

**Civil Engineering (see note below)**  
**School of Engineering, Computer Science and**  
**Mathematics**  
**ECS Building, Room 119 651-5257**

**Bachelor of Science Degree**  
**BS.CIVIL.ENGR (130)**  
**PRE.ENGR (128)**

CORE CURRICULUM COURSES: 42 HOURS ♦		HRS
<b>Communication (Code 10)</b>		
ENGL 1301 Introduction to Academic Writing and Argumentation	3	
COMM 1315, 1318, or 1321	3	
<b>Mathematics (Code 20)</b>		
See University Core Requirements below	(3)	
<b>Life and Physical Sciences (Code 30)</b>		
See University Core Requirements below	(6)	
<b>Language, Philosophy and Culture (Code 40)</b>		
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311*, 2312**/2313*, 2315*, or 2371	3	
<b>Creative Arts (Code 50)</b>		
ARTS 1303, ARTS 1304; DANC 2303; MUSI 1306, MUSI 1307, MUSI 1310; or THRE 1310 <b>Choose 1</b>	3	
<b>American History (Code 60)</b>		
HIST 1301, 1302, 2301, 2381 <b>Choose 2</b>	6	
<b>Government/Political Science (Code 70)</b>		
POSC 2305 and 2306	6	
<b>Social and Behavioral Sciences (Code 80)</b>		
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 <b>Choose 1</b>	3	
<b>Component Area Option (Code 90)</b>		
See University Core Requirements below	(6)	
<b>CIVIL ENGINEERING MAJOR REQUIREMENTS: 99 HOURS</b>		
• A grade of "C" or better must be earned in all courses required for major.		
• A grade of "C" or better is mandatory for all prerequisites listed for ECS courses required for Civil Engineering majors.		
<b>UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦</b>		
<b>CORE 20</b>		
MATH 2413*[3] Calculus I <b>PCE</b>	3	
<b>CORE 30</b>		
PHYS 2425*, 2425L[3] Calculus Physics I <b>AND</b> PHYS 2426*, 2426L[3] Calculus Physics II	6	
<b>CORE 90</b>		
ENGL 2311* Introduction to Professional and Technical Communication	3	
<b>CORE 90</b>		
MATH 2413[1], PHYS 2425L[1], and PHYS 2426L[1] <b>PCE</b>	3	
<b>CIVIL ENGINEERING REQUIREMENTS: 67 HOURS</b>		
ENGR 1171* Engineering Ethics	1	
ENGR 1301*, 1301L Fundamentals of Engineering <b>PCE</b>	3	
ENGR 1304, 1304L Engineering Graphics <b>PCE</b>	3	
ENGR 2301* Engineering Statics <b>PCE</b>	3	
ENGR 2302* Engineering Dynamics <b>PCE</b>	3	
ENGR 2332* Mechanics of Materials I	3	
ENGR 3202* Fundamentals of Engineering Economics	2	
CENG/EVEG 2331* Introduction to Environmental Engineering	3	
CENG/EVEG 3404* Fluid Mechanics for Civil and Environmental Engineers	4	
CENG 2361* Surveying	3	
CENG/EVEG 3311* Water Resources Engineering	3	

CENG 3321* Civil Construction Materials	3	
CENG 3341* Geotechnical Engineering	3	
CENG 3351* Structural Analysis I	3	
CENG 3362* Transportation Engineering	3	
CENG 4380* Civil Engineering Senior Design	3	
<b>CHEM 1411*, 1411L Chemistry I</b> <b>PCE</b>	4	
<b>CHEM 1412*, 1412L Chemistry II</b> <b>PCE</b>	4	
CS 1315* Programming Fundamentals <b>OR</b> CS 1337, 1337L Intro. to Object-Oriented Programming	3	
<b>MATH 2414* Calculus II</b> <b>PCE</b>	4	
MATH 3340* Calculus III	3	
MATH 3342* Differential Equations I	3	
<b>ELECTIVES: 19 HOURS d</b>		
CENG structural design elective	3	
CENG general elective	3	
CENG design elective	3	
<b>Take one course from:</b>		
MATH 3311* Linear Algebra	3	
MATH 3343* Differential Equations II		
MATH 4340* Complex Variables I		
MATH 4341* Advanced Calculus		
MATH 4361* Statistics for the Sciences		
MATH 4362* Introduction to Numerical Analysis		
PHYS 3310* Modern Physics I		
PHYS 4310* Modern Physics II		
PHYS 4330* Optics		
One elective in ENGR, CENG, EENG, EVEG or MENG	3	
<b>Take one course from:</b>		
BIOL 1406, 1406L; BIOL 1407*, 1407L; BIOL 1411, 1411L; BIOL 1413, 1413L	4	
<b>MINIMUM HOURS REQUIRED TO COMPLETE DEGREE</b>	<b>128</b>	

⚡ **Civil Engineering Program admission requirements (PCE):** overall GPA of at least 2.25; completion of the pre-engineering sequence (MATH 2413, 2414, CHEM 1411, 1412, ENGR 1301, 1304, 2301, and 2302) with a GPA of at least 2.75; and successful completion of entrance interview with a department adviser.

♦ The core curriculum must total **exactly 42 hours**; excess hours must be moved to the major as an elective or a major requirement and stay within the 120-hour requirement or approved total submitted to the Coordinating Board for degree requirements. Some majors specify particular courses to meet core curriculum requirements when options are available.

\* Indicates prerequisites—see catalog for more information.

\*\* Or an equivalent course (second year, second semester) in a foreign language.

NOTE: At least 39 hours of advanced work (3000- or 4000-level courses) for which tuition is paid must be earned at WTAMU; 30 of the final 36 hours counted toward the degree must be earned at WTAMU. A maximum of six semester hours in religion (RELI) and a maximum of six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.

**NOTE: This is NOT a degree plan. After completing 30 hours, students are encouraged to request an official degree plan by using the online [Degree Plan Request](#) form. The dean's office of the School of Engineering, Computer Science and Mathematics, located in the Engineering and Computer Science Building, Room 119 (or call 806-651-5257), can answer questions about the degree plan. Students who have completed 45 hours will not be allowed to progress without requesting a degree plan.**