

**West Texas A&M University**  
**Advising Services Degree Checklist 2019-2020**

**AC** This symbol indicates courses that apply towards degree programs at WT. All core classes are offered at AC. Please refer to the list regarding major specific courses. Course prefixes and numbers may vary at each institution. Please contact an adviser to ensure the course will apply towards chosen core area.

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

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

<b>CORE CURRICULUM COURSES: 42 HOURS ♦</b>		<b>HRS</b>	<b>AC</b>
<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	Choose 1	3	
<b>Creative Arts (Code 50)</b>			
ARTS 1303, ARTS 1304; DANC 2303; MUSI 1306, MUSI 1307, MUSI 1310; or THRE 1310	Choose 1	3	
<b>American History (Code 60)</b>			
HIST 1301, 1302, 2301, 2381	Choose 2	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	Choose 1	3	
<b>Component Area Option (Code 90)</b>			
See University Core Requirements below		(6)	
<b>CIVIL ENGINEERING MAJOR REQUIREMENTS: 99 HOURS</b>			
<ul style="list-style-type: none"> <li>• A grade of "C" or better must be earned in all courses required for major.</li> <li>• A grade of "C" or better is mandatory for all prerequisites listed for ECSM courses required for Civil Engineering majors.</li> </ul>			
<b>UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦</b>			
<b>CORE 20</b>			
MATH 2413*[3] Calculus I	AC PCE	3	
<b>CORE 30</b>			
CHEM 1411*, 1411L Chemistry I	AC PCE	6	
CHEM 1412*, 1412L Chemistry II	PCE		
<b>CORE 90</b>			
ENGL 2311* Introduction to Professional and Technical Communication	AC	3	
<b>CORE 90</b>			
MATH 2413[1], CHEM 1411L[1], CHEM 1412L[1]	AC PCE	3	
<b>CIVIL ENGINEERING REQUIREMENTS: 63 HOURS</b>			
ENGR 1171* Engineering Ethics		1	
ENGR 1301*, 1301L Fundamentals of Engineering	AC PCE	3	
ENGR 1304, 1304L Engineering Graphics	AC PCE	3	
ENGR 2301* Engineering Statics	AC PCE	3	
ENGR 2302* Engineering Dynamics	AC PCE	3	
ENGR 2332* Mechanics of Materials I	AC	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	

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

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	
PHYS 2425*, 2425L Calculus Physics I	AC	4	
CS 1315* Programming Fundamentals OR CS 1337, 1337L Intro. to Object-Oriented Programming	AC	3	
MATH 2414* Calculus II	AC PCE	4	
MATH 3340* Calculus III	AC	3	
MATH 3342* Differential Equations I	AC	3	
<b>ELECTIVES: 21-23 HOURS</b>			
CENG structural design elective		3	
CENG general elective		3	
CENG design elective		3	
<b>Take one upper-level elective selected 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			
PHYS 4340* Mathematical Methods			
PHYS 4397* Advanced Physics Elective			
One elective in ENGR, CENG, EENG, EVEG or MENG		3	
<b>Take two natural science electives from:</b>			
PHYS 2426; BIOL 1406, 1407*, 1411, 1413, 2420 or 2572, 4425, 4510; GEOL 1403, 1404, 2471, 2475, 3311, 3312, 3350	AC	6-8	
<b>MINIMUM HOURS REQUIRED TO COMPLETE DEGREE</b>		<b>126</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 required 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 30 hours will not be allowed to progress without requesting a degree plan.**