West Texas A&M University **Advising Services Degree Checklist** 2015-2016

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

NAME:

Civil Engineering (see *&* note below)

Department of Engineering and Computer Science

WT ID:

DATE:

Bachelor of Science Degree BS.CIVIL.ENGR (130)

ECS Building, Room 119 651-5257		
CORE CURRICULUM COURSES: 42 HOURS +	HRS	
Communication (Code 10)	-	
ENGL 1301 Introduction to Academic Writing and Argumentation	3	
COMM 1315, 1318, or 1321	3	
Mathematics (Code 20)	_	
See University Core Requirements below	(3)	
Life and Physical Sciences (Code 30)	_	
See University Core Requirements below	(6)	
Language, Philosophy and Culture (Code 40)		
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; PHIL 1301, 2374; SPAN 2311*, 2312*/**, 2313*, or 2315* Choose 1	3	
Creative Arts (Code 50)	- T	
ARTS 1303, ARTS 1304; DANC 2303; HUMA 1315; MUSI 1306 or 1208 and 1209* (extra MUSI hour moves to Code 90); OT THRE 1310 Choose 1	3	
American History (Code 60)		
HIST 1301, 1302, 2301, 2381 Choose 2	6	
Government/Political Science (Code 70)	<u>і </u>	
POSC 2305 and 2306	6	
Social and Behavioral Sciences (Code 80)	Ľ	
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 Choose 1	3	
Component Area Option (Code 90)		
	(0)	
See University Core Requirements below CIVIL ENGINEERING MAJOR REQUIREMENTS: 99 HOURS	(6)	
	5	equired
CIVIL ENGINEERING MAJOR REQUIREMENTS: 99 HOURS • 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 confor Civil Engineering majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS ◆	S urses re	equired
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CENG/EVEG 3311* Hydrology & Hydraulics3CENG 3321* Civil Construction Materials3CENG 3321* Geotechnical Engineering3CENG 3341* Geotechnical Engineering3CENG 3351* Structural Analysis I3CENG 3362* Transportation Engineering3CENG 4380* Civil Engineering Senior Design3CHEM 1411*, 1411L Chemistry I4CHEM 1412*, 1412L Chemistry II4CS 1315* Programming Fundamentals OR CS 1337, 1337L Intro. to Object-Oriented Programming3MATH 2414* Calculus II4MATH 3340* Calculus III3	
CENG 3341* Geotechnical Engineering3CENG 3351* Structural Analysis I3CENG 3362* Transportation Engineering3CENG 4380* Civil Engineering Senior Design3CHEM 1411*, 1411L Chemistry I4CHEM 1412*, 1412L Chemistry II4CS 1315* Programming Fundamentals OR CS 1337, 1337L Intro. to Object-Oriented Programming3MATH 2414* Calculus II4	
CENG 3351* Structural Analysis I3CENG 3362* Transportation Engineering3CENG 4380* Civil Engineering Senior Design3CHEM 1411*, 1411L Chemistry I4CHEM 1412*, 1412L Chemistry II4CS 1315* Programming Fundamentals OR CS 1337, 1337L Intro. to Object-Oriented Programming3MATH 2414* Calculus II4	
CENG 3362* Transportation Engineering3CENG 4380* Civil Engineering Senior Design3CHEM 1411*, 1411L Chemistry I4CHEM 1412*, 1412L Chemistry II4CS 1315* Programming Fundamentals OR CS 1337, 1337L Intro. to Object-Oriented Programming3MATH 2414* Calculus II4	
CENG 4380* Civil Engineering Senior Design3CHEM 1411*, 1411L Chemistry I4CHEM 1412*, 1412L Chemistry II4CS 1315* Programming Fundamentals OR CS 1337, 1337L Intro. to Object-Oriented Programming3MATH 2414* Calculus II4	
CHEM 1411*, 1411L Chemistry I 4 CHEM 1412*, 1412L Chemistry II 4 CS 1315* Programming Fundamentals OR 3 CS 1337, 1337L Intro. to Object-Oriented Programming 3 MATH 2414* Calculus II 4	
CHEM 1412*, 1412L Chemistry II 4 CS 1315* Programming Fundamentals OR 3 CS 1337, 1337L Intro. to Object-Oriented Programming 3 MATH 2414* Calculus II 4	
CS 1315* Programming Fundamentals OR 3 CS 1337, 1337L Intro. to Object-Oriented Programming 4 MATH 2414* Calculus II 4	
CS 1337, 1337L Intro. to Object-Oriented Programming MATH 2414* Calculus II 4	
MATH 2240* Coloulus III	
MATH 3340 Calculus III 5	
MATH 3342* Differential Equations I 3	
ELECTIVES: 18 HOURS	
CENG structural design elective 3	
CENG general elective 3	
CENG design elective 3	
Take one course from:MATH 3311* Linear AlgebraMATH 3343* Differential Equations IIMATH 3343* Differential Equations IIMATH 4340* Complex Variables IMATH 4341* Advanced CalculusMATH 4361* Statistics for the SciencesMATH 4362* Introduction to Numerical AnalysisPHYS 3310* Modern Physics IPHYS 4310* Modern Physics IIPHYS 4330* Optics	
ENGR, EVEG, OR MENG ELECTIVE 3	
Take one course from: BIOL 1406, 1406L; BIOL 1407*, 1407L; BIOL 1411, 1411L;	
BIOL 1413, 1413L; BIOL 2572*, 2572L; 2420*, 2420L; BIOL 4-5 3099; or BIOL 4425, 4425L	

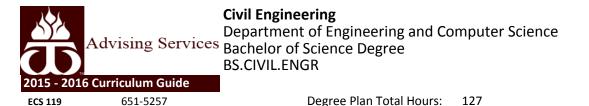
Civil Engineering Program admission requirements: overall GPA 2.25; completion of the pre-engineering sequence (MATH 2413, 2414, CHEM 1411, 1412, ENGR 1301, 1304, 2301, and 2302) with a GPA of at least 2.75; and successful completion of entrance interview with a department adviser.

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.

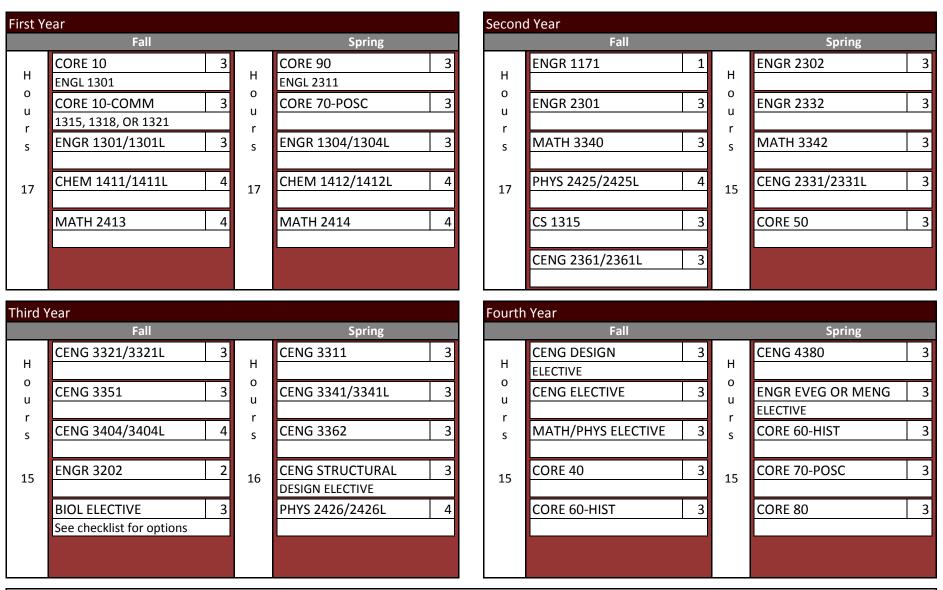
* Indicates prerequisites—see catalog for more information.

** 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.



Major Code: 130



DISCLAIMER: This curriculum guide should be used in conjunction with the corresponding degree checklist for general planning purposes only. The degree checklist (later a student's official degree plan) should be referred to as the comprehensive list of all courses required for the degree. An official degree plan is required after completing 45 hours. Students should always seek the advice of their academic adviser before scheduling classes.