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

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

NAME:_____ **WT ID:**_____ **DATE:**_____

Civil Engineering (see ✍ note below)
Department of Engineering and Computer Science
ECS Building, Room 119 651-5257

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

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)		
ARTS 1303, ARTS 1304; DANC 2303; HUMA 1315; MUSI 1306 **or** 1208 **and** 1209* **(extra MUSI hour moves to Code 90)**; or THRE 1310 **Choose 1**	3	
American History (Code 60)		
HIST 1301, 1302, 2301, 2381 **Choose 2**	6	
Government/Political Science (Code 70)		
POSC 2305 and 2306	6	
Social and Behavioral Sciences (Code 80)		
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 **Choose 1**	3	
Component Area Option (Code 90)		
See **University Core Requirements** below	(6)	
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 courses required for Civil Engineering majors.**		
UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦		
CORE 20 MATH 2413*[3] Calculus I	3	
CORE 30 PHYS 2425*, 2425L[3] Calculus Physics I **AND** PHYS 2426*, 2426L[3] Calculus Physics II	6	
CORE 90 ENGL 2311* Introduction to Professional and Technical Communication	3	
CORE 90 MATH 2413[1], PHYS 2425L[1], and PHYS 2426L[1]	3	
CIVIL ENGINEERING REQUIREMENTS: 66 HOURS		
ENGR 1171* Engineering Ethics	1	
ENGR 1301*,1301L Fundamentals of Engineering	3	
ENGR 1304, 1304L Engineering Graphics	3	
ENGR 2301* Engineering Statics	3	
ENGR 2302* Engineering Dynamics	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	3	
CENG 2361* Surveying	3	
CENG/EVEG 3311* Hydrology & Hydraulics	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	
CHEM 1411*, 1411L Chemistry I	4	
CHEM 1412*, 1412L Chemistry II	4	
CS 1315* Programming Fundamentals **OR** CS 1337, 1337L Intro. to Object-Oriented Programming	3	
MATH 2414* Calculus II	4	
MATH 3340* Calculus III	3	
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 Algebra 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	3	
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 3099; or BIOL 4425, 4425L	4-5	
MINIMUM HOURS REQUIRED TO COMPLETE DEGREE	**127-128**	

✍ **Civil Engineering Program admission requirements:** 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.

Advising Services

2015 - 2016 Curriculum Guide

Civil Engineering

Department of Engineering and Computer Science
Bachelor of Science Degree
BS.CIVIL.ENGR

ECS 119 651-5257 Degree Plan Total Hours: 127 Major Code: 130

First Year

Fall		Hours	Spring		Hours
CORE 10	3	17	CORE 90	3	17
ENGL 1301			ENGL 2311		
CORE 10-COMM	3		CORE 70-POSC	3	
1315, 1318, OR 1321					
ENGR 1301/1301L	3		ENGR 1304/1304L	3	
CHEM 1411/1411L	4		CHEM 1412/1412L	4	
MATH 2413	4		MATH 2414	4	

Second Year

Fall		Hours	Spring		Hours
ENGR 1171	1	17	ENGR 2302	3	15
ENGR 2301	3		ENGR 2332	3	
MATH 3340	3		MATH 3342	3	
PHYS 2425/2425L	4		CENG 2331/2331L	3	
CS 1315	3		CORE 50	3	
CENG 2361/2361L	3				

Third Year

Fall		Hours	Spring		Hours
CENG 3321/3321L	3	15	CENG 3311	3	16
CENG 3351	3		CENG 3341/3341L	3	
CENG 3404/3404L	4		CENG 3362	3	
ENGR 3202	2		CENG STRUCTURAL	3	
			DESIGN ELECTIVE		
BIOL ELECTIVE	3		PHYS 2426/2426L	4	
See checklist for options					

Fourth Year

Fall		Hours	Spring		Hours
CENG DESIGN	3	15	CENG 4380	3	15
ELECTIVE					
CENG ELECTIVE	3		ENGR EVEG OR MENG	3	
			ELECTIVE		
MATH/PHYS ELECTIVE	3		CORE 60-HIST	3	
CORE 40	3		CORE 70-POSC	3	
CORE 60-HIST	3		CORE 80	3	

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.

5/19/16