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:**_____

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

Bachelor of Science Degree
BS.EVEG.ENGR (135)

CORE CURRICULUM COURSES: 42 HOURS ♦	HRS	AC
Communication (10)		
ENGL 1301 Introduction to Academic Writing and Argumentation	3	
COMM 1315, 1318, or 1321	3	
Mathematics (20)		
See **University Core Requirements** below	(3)	
Life and Physical Sciences (30)		
See **University Core Requirements** below	(6)	
Language, Philosophy and Culture (40)		
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	
Creative Arts (50)		
ARTS 1303, ARTS 1304; DANC 2303; MUSI 1306, MUSI 1307, MUSI 1310; or THRE 1310 **Choose 1**	3	
American History (60)		
HIST 1301, 1302, 2301, 2381 **Choose 2**	6	
Government/Political Science (70)		
POSC 2305 and 2306	6	
Social and Behavioral Sciences (80)		
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 **Choose 1**	3	
Component Area Option (90)		
See **University Core Requirements** below	(6)	

ENVIRONMENTAL ENGINEERING MAJOR REQUIREMENTS: 106 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 ECSM courses required for EVEG majors.**

UNIVERSITY CORE REQUIREMENTS: 15 HOURS			
CORE 20 **MATH 2413*[3] Calculus I** AC PENV	3		
CORE 30 **CHEM 1411*[3] Chemistry I AND CHEM 1412*[3] Chemistry II** AC PENV	6		
CORE 90 ENGL 2311* Introduction to Professional and Technical Communication AC	3		
CORE 90 CHEM 1411L[1], 1412l[1], and MATH 2413[1]	3		
ENGRINEERING CORE REQUIREMENTS: 21 HOURS			
ENGR 1171 Engineering Ethics	1		
ENGR 1301*,1301L Fundamentals of Engineering PENV	3		AC
ENGR 1304 *(125),* 1304L *(125L)* Engineering Graphics PENV	3		AC
ENGR 1375*, 1375L Principles of DC and AC Circuits	3		AC
ENGR 2301* Engineering Statics PENV	3		AC
ENGR 2302* Engineering Dynamics PENV	3		AC
ENGR 3202* Fundamentals of Engineering Economics	2		
CS 1315* Programming Fundamentals **OR** CS 1337, 1337L Introduction to Object-Oriented Programming	3		AC

ENVIRONMENTAL ENGINEERING REQUIREMENTS: 25 HOURS		
EVEG/CENG 2331* Intro. to Environmental Engineering	3	
EVEG 3404* Introduction to Fluid Mechanics for Civil and Environmental Engineers	4	
EVEG 3311* Water Resources Engineering	3	
EVEG 3342* Principles of Water and Wastewater Treatment	3	
EVEG 3343* Principles of Air Pollution Monitoring & Control	3	
EVEG 3344* Principles of Solid & Hazardous Waste Mgt.	3	
EVEG 3361* Modeling for Environmental Engineering	3	
EVEG 4380* Environmental Engineering Design	3	
GENERAL ENGINEERING ELECTIVES: 9 HOURS		
Take 3 hours from: EVEG 4097* Environmental Engineering Research **OR** EVEG 4098* Environmental Engineering Internship	3	
Take one upper-division elective from: MENG, EVEG, CENG, or ENGR	3	
Take one upper-division EVEG elective: EVEG ELECTIVE	3	
MATH AND SCIENCE REQUIREMENTS: 28 HOURS		
MATH 2414* Calculus II AC PENV	4	
MATH 3340* Calculus III AC	3	
MATH 3342* Differential Equations I AC	3	
MATH 4361* Statistics for the Sciences	3	
PHYS 2425*, 2425L Calculus Physics I AC	4	
Take 8 hours from: BIOL 1406, 1407*, 1411, 1413, 2374*, 2420* or 2572*, 3374, 4425, 4510 AC	8	
Take 3 hours from: AC AC **GEOG/GESC** 3308, 3313; **GEOL** 1403, 1404, 3312, 3350; **PSES** 2411, 4311	3	
TOTAL HOURS REQUIRED TO COMPLETE DEGREE	**128**	

✍ **Environmental Engineering Program admission requirements (PENV):** 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, and 30 of the 39 hours must be the final hours counted toward a degree. A maximum of six semester hours in religion (RELI) and 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.