West Texas A&M University
Advising Services
Degree Checklist
2020-2021

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

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

Environmental Engineering (see ✍ note below)
College of Engineering
ECS Building, Room 119 651-5257

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

CORE CURRICULUM COURSES: 42 HOURS ♦	HRS	
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 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 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** **PENV**	3	
CORE 30 **CHEM 1411*[3] Chemistry I AND** **CHEM 1412*[3] Chemistry II** **PENV**	6	
CORE 90 ENGL 2311* Introduction to Professional and Technical Communication	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	
ENGR 1304 *(125)*, 1304L *(125L)* Engineering Graphics **PENV**	3	
ENGR 1375*, 1375L Principles of DC and AC Circuits	3	
ENGR 2301* Engineering Statics **PENV**	3	
ENGR 2302* Engineering Dynamics **PENV**	3	
ENGR 3202* Fundamentals of Engineering Economics	2	
CS 1315* Programming Fundamentals **OR** CS 1337, 1337L Introduction to Object-Oriented Programming	3	

ENVIRONMENTAL ENGINEERING REQUIREMENTS: 25 HOURS		
EVEG/CENG 2331* Intro. to Environmental Engineering	3	
EVEG 3304* Introduction to Fluid Mechanics for Civil and Environmental Engineers	3	
EVEG 3411* Water Resources Engineering	4	
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 **PENV**	4	
MATH 3340* Calculus III	3	
MATH 3342* Differential Equations I	3	
MATH 4361* Statistics for the Sciences	3	
PHYS 2425*, 2425L Calculus Physics I	4	
Take 8 hours from: BIOL 1406, 1407*, 1411, 1413, 2374*, 2420* or 2572*, 3374, 4425, 4510	8	
Take 3 hours from: **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 must request an official degree plan (using the online Degree Plan Request form) in order to progress. Students who have questions about their degree plan should contact the office of the dean of the College of Engineering, located in the Engineering and Computer Science Building, Room 119 (or call 806-651-5257).

WTAMU ADVISING SERVICES
2020-2021 Curriculum Guide

Major: Environmental Engineering, B.S. **Major Code:** 135

First Year

Fall		Spring	
CORE 10(1) - ENGL 1301	3	MATH 2414 (PENV-see Note 1)	4
CORE 20 - MATH 2413 (PENV - see Note 1)	4	CS 1315 or 1337/1337L	3
4th hour counts towards Core 90			
CORE 30(1)-CHEM 1411 (PENV-see Note 1)	3	CORE 30(2)-CHEM 1412 (PENV-see Note 1)	3
CORE 90 - CHEM 1411L	1	CORE 90-CHEM 1412L	1
CORE - See checklist for options (see also Note 2 below)	3	CORE 90 - ENGL 2311 (required for major)	3
ENGR 1301/1301L (PENV-see Note 1)	3	ENGR 1304/1304L (PENV-see Note 1)	3
Semester Hours	17	Semester Hours	17

Second Year

Fall		Spring	
MATH 3340	3	MATH 3342	3
ENGR 1375	3	ENGR 2302 (PENV-see Note 1)	3
PHYS 2425/2425L	4	EVEG 2331	3
ENGR 2301 (PENV-see Note 1)	3	BIOL Elective(1)	4
		-See checklist or Note 3 below for options.	
CORE - See checklist for options (see also Note 2 below)	3	CORE - See checklist for options (see also Note 2 below)	3
Semester Hours	16	Semester Hours	16

Third Year

Fall		Spring	
ENGR 1171	1	EVEG 3342	3
ENGR 3202	2	EVEG 3343	3
EVEG 3304	3	EVEG 3411	4
EVEG 3344	3	CORE - See checklist for options (see also Note 2 below)	3
GEOL/GESC/GEOL/PSES Elective	3-4	CORE - See checklist for options (see also Note 2 below)	3
-See checklist or Note 4 below for options.			
CORE - See checklist for options	3		
Semester Hours	14-15	Semester Hours	16

Fourth Year

Fall		Spring	
EVEG 4380	3	MATH 4361	3
EVEG 3361	3	MENG/EVEG Elective	3
EVEG 4097 or 4098	3	ENGR/MENG/CENG, or ENGR	3
		-Must be upper-level.	
BIOL Elective(2)	4	CORE - See checklist for options (see also Note 2 below)	3
-See checklist or Note 3 below for options.			
CORE - See checklist for options (see also Note 2 below)	3	CORE - See checklist for options (see also Note 2 below)	3
Semester Hours	16-17	Semester Hours	15

Degree Total Hours 128

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 30 hours. Students should always seek the advice of their academic adviser before scheduling classes.

Identified Marketable Skills:

Top 3 Local Employers or Industries/Professional Programs/Possible Career Opportunities

Prerequisites/Important Sequences/Other degree Notes:

Note 1 - PENV: Environmental Engineering Program admission requirements: overall GPA of at least 2.25; completion of the pre-environmental 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.

Note 2 - CORE: Environmental Engineering majors are required to take specific courses for Core 20, Core 30, and Core 90. For all other categories, they may select from any available options (see degree checklist). Apart from the major-specific core requirements, there is no set order in which core courses must be taken.

Note 3 - BIOL Electives: Take 8 hours from BIOL 1406, 1407, 1411, 1413, 2374, 2420 or 2572, 3374, 4425, 4510.

Note 4 - GEOG/GESC/GEOL/PSES requirement: Take 3 hours from GEOG/GESC 3308, 3313; GEOL 1403, 1404, 3312, 3350; PSES 2411, 4311.