### West Texas A&M University Advising Services Degree Checklist 2021-2022

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

WT ID:

Environmental Engineering (see ℯু∕ note below College of Engineering ECS Building, Room 119 651-5257	<b>'</b> )	
CORE CURRICULUM COURSES: 42 HOURS +	HRS	CC
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)	1 .	I
HIST 1301, 1302, 2301, 2381, 2382 Choose 2	6	
Government/Political Science (70)	1	
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 REQUIREMENT 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 required for EVEG majors.		s
UNIVERSITY CORE REQUIREMENTS: 15 HOURS	•	
CORE 20 MATH 2413*[3] Calculus I	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	
<u>CORE 90</u> 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 CS 1315* Programming Fundamentals <b>OR</b>	2	
CS 1337, 1337L Introduction to Object-Oriented	3	

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

DATE:

ENVIRONMENTAL ENGINEERING REQUIREMENTS: 25 HO	OURS	}					
EVEG/CENG 2331* Intro. to Environmental Engineering							
EVEG 3304* Introduction to Fluid Mechanics for Civil and Environmental Engineers							
EVEG 3411* Water Resources Engineering							
EVEG 3342* Principles of Water and Wastewater Treatment							
EVEG 3343* Principles of Air Pollution Monitoring & Control							
EVEG 3344* Principles of Solid & Hazardous Waste Mgt.							
EVEG 3361* Modeling for Environmental Engineering							
EVEG 4380* Environmental Engineering Design							
GENERAL ENGINEERING ELECTIVES: 9 HOURS							
Take 3 hours from: EVEG 4097* Environmental Engineering Research OR EVEG 4098* Environmental Engineering Internship							
Take one upper-division elective from: MENG, EVEG, CENG, or ENGR							
Take one upper-division EVEG elective: EVEG ELECTIVE							
MATH AND SCIENCE REQUIREMENTS: 28 HOURS							
MATH 2414* Calculus II CC 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						
<b>Take 8 hours from:</b> 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							

& 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.

NOTE: At least 36 hours of advanced work (3000- or 4000-level courses) for which tuition is paid must be earned at WTAMU. 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. All undergraduate students must request an official degree plan from their academic dean's office by the time they have completed 30 credit hours.

Programming

NAME:

<sup>◆</sup> 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 prorequisites\*\*

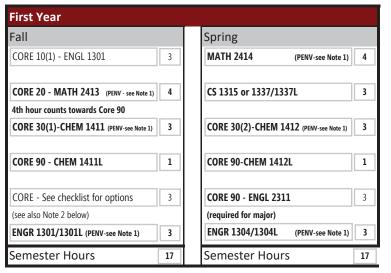
\*\*see catalog for more information\*\*

<sup>\*</sup> Indicates prerequisites—see catalog for more information.
\*\* Or an equivalent course (second year, second semester) in a foreign language.

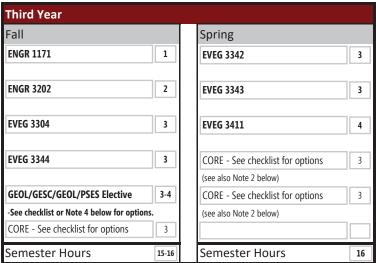
# WTAMU ADVISING SERVICES 2021-2022 Curriculum Guide

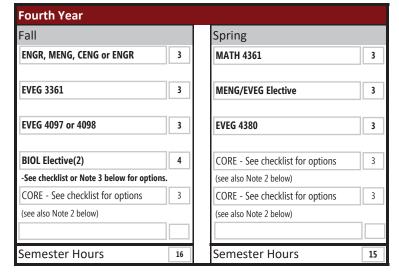
Major Code: 135

Major: Environmental Engineering, B.S.



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 No	te 3 below for options.	
CORE - See checklist for options		3	CORE - See checkl	ist for options	3
(see also Note 2 below)			(see also Note 2 belo	w)	
Semester Hours		16	Semester Ho	urs	16





#### **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.