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:
	·	

HRS

3

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

Communication (10)

CORE CURRICULUM COURSES: 42 HOURS ◆

ENGL 1301 Introduction to Academic Writing and

Argumentation

COMM 1315, 1318, or 1321

COMMINI 1313, 1316, 01 1321		•
Mathematics (20)		
See University Core Requirements below	(3)	
Life and Physical Sciences (30)	(0)	
See University Core Requirements below Language, Philosophy and Culture (40)	(6)	
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIS 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311*, 2312*/**, 2313*, 2315*, or 2371	3	
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for	ı	l
music majors), 1310; or THRE 1310 Choose American History (60)	- 3	
	2 6	П
HIST 1301, 1302, 2301, 2381 Choose Government/Political Science (70)	2 6	oxdot
POSC 2305 and 2306	6	П
	0	
Social and Behavioral Sciences (80) AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302;	T	
PSYC 2301; SOCI 1301 Choose	1 3	
Component Area Option (90)		
See University Core Requirements below	(6)	
 106 HOURS A grade of "C" or better must be earned in all courses required for major 	NTS:	
 106 HOURS A grade of "C" or better must be earned in all courses required for majo A grade of "C" or better is mandatory for all prerequisites listed for ECS required for EVEG majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS 	r.	es
 A grade of "C" or better must be earned in all courses required for majo A grade of "C" or better is mandatory for all prerequisites listed for ECS required for EVEG majors. 	or. BM course	es
A grade of "C" or better must be earned in all courses required for majo A grade of "C" or better is mandatory for all prerequisites listed for ECS required for EVEG majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS CORE 20	v 3	es
A grade of "C" or better must be earned in all courses required for majo A grade of "C" or better is mandatory for all prerequisites listed for ECS required for EVEG majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3] Chemistry I AND	v 3	es
A grade of "C" or better must be earned in all courses required for majo A grade of "C" or better is mandatory for all prerequisites listed for ECS required for EVEG majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS CORE 20 MATH 2413*[3] Calculus I PEN CORE 30 CHEM 1411*[3] Chemistry I AND CHEM 1412*[3] Chemistry II PEN CORE 90 ENGL 2311* Introduction to Professional and Technical	v 3	98
A grade of "C" or better must be earned in all courses required for majo A grade of "C" or better is mandatory for all prerequisites listed for ECS required for EVEG majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS CORE 20 MATH 2413*[3] Calculus I PEN CORE 30 CHEM 1411*[3] Chemistry I AND CHEM 1412*[3] Chemistry II PEN CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90	v 3	es
A grade of "C" or better must be earned in all courses required for majo A grade of "C" or better is mandatory for all prerequisites listed for ECS required for EVEG majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS CORE 20 MATH 2413*[3] Calculus I PEN CORE 30 CHEM 1411*[3] Chemistry I AND CHEM 1412*[3] Chemistry II PEN CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 CHEM 1411L[1], 1412l[1], and MATH 2413[1]	v 3	es
A grade of "C" or better must be earned in all courses required for majo A grade of "C" or better is mandatory for all prerequisites listed for ECS required for EVEG majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS CORE 20 MATH 2413*[3] Calculus I PEN CORE 30 CHEM 1411*[3] Chemistry I AND CHEM 1412*[3] Chemistry II PEN CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 CHEM 1411L[1], 1412I[1], and MATH 2413[1] ENGRINEERING CORE REQUIREMENTS: 21 HOURS	v 3 v 3 v 3	es
A grade of "C" or better must be earned in all courses required for majo A grade of "C" or better is mandatory for all prerequisites listed for ECS required for EVEG majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS CORE 20 MATH 2413*[3] Calculus I PEN CORE 30 CHEM 1411*[3] Chemistry I AND CHEM 1412*[3] Chemistry II PEN CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 CHEM 1411L[1], 1412I[1], and MATH 2413[1] ENGRINEERING CORE REQUIREMENTS: 21 HOURS ENGR 1171 Engineering Ethics	v 3 v 6 v 3 3	es
• A grade of "C" or better must be earned in all courses required for majo • A grade of "C" or better is mandatory for all prerequisites listed for ECS required for EVEG majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS CORE 20 MATH 2413*[3] Calculus I PEN CORE 30 CHEM 1411*[3] Chemistry I AND CHEM 1412*[3] Chemistry II PEN CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 CHEM 1411L[1], 1412l[1], and MATH 2413[1] ENGRINEERING CORE REQUIREMENTS: 21 HOURS ENGR 1301*,1301L Fundamentals of Engineering PEN ENGR 1304 (125), 1304L (125L) Engineering Graphics ENGR 1375*, 1375L Principles of DC and AC Circuits	v 3 v 3 v 3 v 3 v 3 v 3 v 3	es
• A grade of "C" or better must be earned in all courses required for majo • A grade of "C" or better is mandatory for all prerequisites listed for ECS required for EVEG majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3] Chemistry I AND CHEM 1412*[3] Chemistry II PEN CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 CHEM 1411L[1], 1412I[1], and MATH 2413[1] ENGRINEERING CORE REQUIREMENTS: 21 HOURS ENGR 1301*,1301L Fundamentals of Engineering PEN ENGR 1304 (125), 1304L (125L) Engineering Graphics PEN	v 3 v 3 v 3 v 3 v 3 v 3 v 3	es
• A grade of "C" or better must be earned in all courses required for majo • A grade of "C" or better is mandatory for all prerequisites listed for ECS required for EVEG majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS CORE 20 MATH 2413*[3] Calculus I PEN CORE 30 CHEM 1411*[3] Chemistry I AND CHEM 1412*[3] Chemistry II PEN CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 CHEM 1411L[1], 1412l[1], and MATH 2413[1] ENGRINEERING CORE REQUIREMENTS: 21 HOURS ENGR 1301*,1301L Fundamentals of Engineering PEN ENGR 1304 (125), 1304L (125L) Engineering Graphics ENGR 1375*, 1375L Principles of DC and AC Circuits	v 3 v 3 v 3 v 3 v 3 v 3 v 3 v 3	
• A grade of "C" or better must be earned in all courses required for majo • A grade of "C" or better is mandatory for all prerequisites listed for ECS required for EVEG majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3] Chemistry I AND CHEM 1412*[3] Chemistry II PEN CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 CHEM 1411L[1], 1412I[1], and MATH 2413[1] ENGRINEERING CORE REQUIREMENTS: 21 HOURS ENGR 1301*,1301L Fundamentals of Engineering ENGR 1304 (125), 1304L (125L) Engineering Graphics ENGR 1375*, 1375L Principles of DC and AC Circuits ENGR 2301* Engineering Statics PEN	v 3 v 3 v 3 v 3 v 3 v 3 v 3 v 3	es

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

ENVIRONMENTAL ENGINEERING REQUIREMENTS: 25 HO	JIIDS		
EVEG/CENG 2331* Intro. to Environmental Engineering	3	,	
<u> </u>	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		
VEG 3343* Principles of Air Pollution Monitoring & Control			
EVEG 3344* Principles of Solid & Hazardous Waste Mgt.			
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		
HYS 2425*, 2425L Calculus Physics I			
PHYS 2425*, 2425L Calculus Physics I			
PHYS 2425*, 2425L Calculus Physics I Take 8 hours from: BIOL 1406, 1407*, 1411, 1413, 2374*, 2420* or 2572*, 3374, 4425, 4510	8		
Take 8 hours from: BIOL 1406, 1407*, 1411, 1413, 2374*, 2420* or 2572*,	8		

- ◆ 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.
- ** Or an equivalent course (second year, second semester) in a foreign language.

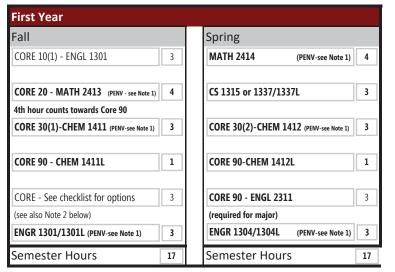
 NOTE: At least 39 hours of advanced work (3000- or 4000-level courses) for which tuition is paid must be earned at WTAMU, and 30 of the 39 hours must be the final hours counted toward a degree. A maximum of six semester hours in religion (RELI) and six semester hours in physical education (PHED) courses 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 <u>Degree Plan Request</u> 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).

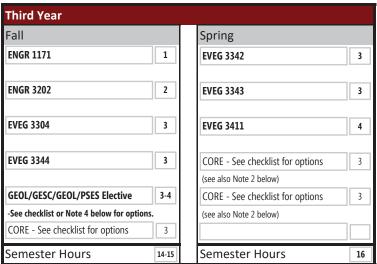
WTAMU ADVISING SERVICES 2020-2021 Curriculum Guide

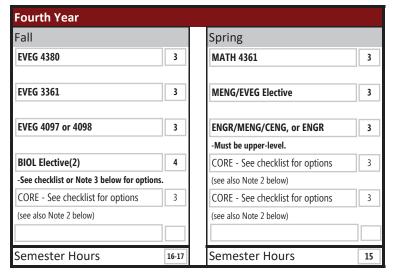
Major Code: 135

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 Note 3 below for options.	
CORE - See checklist for options	3	CORE - See checklist for options	3
(see also Note 2 below)		(see also Note 2 below)	
Semester Hours	16	Semester Hours	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.