

WTAMU ADVISING SERVICES – 2024-2025 Curriculum Guide

Major: Environmental Engineering, B.S.

Major Code: 135

Year 1: Fall		Year 1: Spring	
CORE 10 (Communication) – ENGL 1301 or 1311 ¹	3	MATH 2414 Calculus II (PENV ²)	4
CORE 20 (Mathematics) – MATH 2413 Calculus I (PENV ²) - 4 th hour counts towards Core 90	4	ENGR 1304/1304L Engineering Graphics (PENV ²)	3
CORE 30 (Life & Phys. Sci.) - CHEM 1411 Chemistry I (PENV ²)	3	CORE 30 (Life & Phys. Sci.) - CHEM 1412 Chemistry II (PENV ²)	3
CORE 90 (Component Area Option) – CHEM 1411L (PENV ²)	1	CORE 90 (Component Area Option) – CHEM 1412L (PENV ²)	1
ENGR 1301/1301L Fundamentals of Engineering (PENV ²)	3	CORE 90 (Component Area Option) – ENGL 1302, 1312, or 2311	3
CORE – See checklist for options ¹	3	CS 1315 Programming Fundamentals	3
Total:	17	Total:	17
Year 2: Fall		Year 2: Spring	
MATH 3340 Calculus III	3	ENGR 2302 Engineering Dynamics (PENV ²)	3
ENGR 1375/1375L Principles of DC & AC Circuits	3	EVEG 2331/2331L Introduction to Environmental Engineering	3
ENGR 2301 Engineering Statics (PENV ²)	3	MATH 3342 Differential Equations I	3
PHYS 2425/2425L Calculus Physics I	4	BIOL Elective – Take 3-5 hours from (total for BIOL Electives must be 8 hrs): BIOL 1406, 1407, 1411, 1413, 2374, 2420 or 2572, 3374, 4425, 4510	3-5
CORE – See checklist for options ¹	3	CORE – See checklist for options ¹	3
Total:	16	Total:	15-17
Year 3: Fall		Year 3: Spring	
EVEG 3342 Principles of Water & Wastewater Treatment Design	3	ENGR 1171 Engineering Ethics	1
EVEG 3304/3304L	3	ENGR 3202 Fundamentals of Engineering Economics	2
Introduction to Fluid Mechanics for Civil & Environmental Engineers	3	EVEG 3345/3345L Principles of Air and Solid Waste Engineering Design	3
CENG 3321/3321L Civil Construction Materials		EVEG 3411/3411L Water Resources Engineering	4
GEOL/GESC/GEOL/PSES Elective – Take one course from: GESC 3308, 3313, GEOL 1403, 1404, 3312, 3350, PSES 2311, 4311	3-5	CORE – See checklist for options ¹	3
CORE – See checklist for options ¹	3	CORE – See checklist for options ¹	3
Total:	15-17	Total:	16
Year 4: Fall		Year 4: Spring	
MENG, EVEG, CENG, or ENGR Elective (advanced)	3	MATH 4361 Statistics for the Sciences	3
MENG 3320 Engineering Thermodynamics	3	EVEG Elective (advanced)	3
EVEG 4097 or 4098	3	EVEG 4380/4380L Environmental Engineering Design	3
BIOL Elective – Take 3-5 hours from (total for BIOL Electives must be 8 hrs): BIOL 1406, 1407, 1411, 1413, 2374, 2420 or 2572, 3374, 4425, 4510	3-5	CORE – See checklist for options ¹	3
CORE – See checklist for options ¹	3	CORE – See checklist for options ¹	3
Total:	15-17	Total:	15

¹ **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.

² **(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.

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Identified Marketable Skills	Top Three Local Employers or Industries/Professional Programs/Possible Career Opportunities
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Additional notes:

- 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.
- 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.