

West Texas A&M University

Advising Services

Degree Checklist

2025-2026

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

Name: _____ WT ID: _____ Date: _____

Environmental Science B.S.	
Department of Life, Earth and Environmental Sciences (NSB-106) (651-2570)	
Degree: Bachelor of Science (B.S.)	
See the "Requirements for Baccalaureate Degrees" section of the Catalog.	
Major: Environmental Science	BS.ENVIR.SCIENCE
Major Code: 105	
Option I - Environmental Science (Major Code: 105)	
Option II - Environmental Science/Geology Emphasis (Major Code: 105)	
Option II is designed to prepare students for employment in the geosciences field and to help prepare them for the Certified Professional Geologist Exam.	
University Core Curriculum Requirements (42 hours)	Semester Credit Hours
Core 10 - Communication (3 hours from ENGL options) • ENGL 1301 or ENGL 1311	3
Core 10 - Communication (3 hours from COMM options) • COMM 1315; COMM 1318; or COMM 1321	3
Core 20 - Mathematics (3 hours) • See Major-Specific University Core Requirements below	
Core 30 - Life and Physical Sciences (6 hours) • See Major-Specific University Core Requirements below	
Core 40 - Language, Philosophy and Culture (3 hours) • ANTH 2351; ENGL 2321; ENGL 2326; ENGL 2331; ENGL 2341; ENGL 2343; HIST 2311; HIST 2323; HIST 2372; MCOM 1307; PHIL 1301; PHIL 2374; SPAN 2311; SPAN 2312 [or an equivalent course (second year or intermediate level) in a foreign language]; SPAN 2313; SPAN 2315; or SPAN 2371	3
Core 50 - Creative Arts (3 hours) • ARTS 1301; ARTS 1303; ARTS 1304; DANC 2303; MUSI 1306; MUSI 1307; MUSI 1310; or THRE 1310	3
Core 60 - American History (6 hours) • HIST 1301; HIST 1302; HIST 2301; HIST 2381; or HIST 2382	3
Core 70 - Government / Political Science (6 hours) • POSC 2305 and POSC 2306	3
Core 80 - Social and Behavioral Sciences (3 hours) • AGBE 2317; COMM 2377; CRIJ 1301; ECON 2301; ECON 2302; GEOG 1302; PSYC 2301; or SOCI 1301	3
Core 90 - Component Area Option (6 hours or fewer; may depend on major requirements) • See Major-Specific University Core Requirements below	

Option I: Environmental Science Major Requirements (93 hours)			
***** C or better required in all courses in the Major Requirements *****			
Major-Specific University Core Requirements (15 hours) – (for Option I)			
The following courses are required for their specific Core areas <u>instead of</u> the courses listed above in the general University Core Curriculum.			
Core 20 - Mathematics (3 hours) <ul style="list-style-type: none"> MATH 1316 - Plane Trigonometry or MATH 2412 - Pre-Calculus Math (Fourth hour of MATH 2412, if taken, will count towards Core 90.)	3		
Core 30 - Life and Physical Sciences (6 hours) <ul style="list-style-type: none"> BIOL 1406 - Basic and Contemporary Biology I BIOL 1407 - Basic and Contemporary Biology II or ENVR 1407 - Fundamentals of Environmental Science (Lab hours will count towards Core 90.)	3	3	
Core 90 - Component Area Option (6 hours) <ul style="list-style-type: none"> ENGL 1302 - Academic Writing and Research or ENGL 2311 - Introduction to Professional and Technical Communication Lab hours from BIOL 1406 and BIOL 1407/ENVR 1407 and fourth hour from MATH 2412 (if taken) or from fourth hour of other Core 30 course or from IDS 1071 	3		
	1	1	1
Environmental Science Core Requirements (63-69 hours) – (for Option I)			
BIOL 2572 - Microbiology or BIOL 2420 - Applied Microbiology	4-5		
BIOL 3418 - Wildland Soils	4		
BIOL 4416 - Introductory Biometry (Environmental Science, Option I students must take ENVR 3434 or MATH 2413 prior to BIOL 4416)	4		
CHEM 1411 - Chemistry I	4		
CHEM 1412 - Chemistry II	4		
CHEM 2533 - Elementary Organic Chemistry (preferred) or CHEM 2423 - Organic Chemistry I or CHEM 3511 - Analytical Chemistry	4-5		
GEOL 1403 - Physical Geology	4		
GEOL 3325 - Environmental Geology	3		
GEOL 3350 - Hydrogeology	3		
GEOL 3471 - Mineralogy	4		
GESC 3308 - Environment and Man or BIOL 4310 - General Ecology with BIOL 4210L - General Ecology Lab	3-5		
ENVR 3434 - Numerical Methods in Environmental Science or MATH 2413 - Calculus I	4		
ENVR 4098 - Internship in Environmental Science	1-3		
ENVR 4111 - Seminar	1		
ENVR 4302 - Environmental Law	3		
ENVR 4305 - Introduction to Geographic Information Systems	3		
ENVR 4306 - Hazardous Waste Site Assessment	3		
ENVR 4377 - Toxicology	3		
ENVR 4404 - Environmental Sampling and Interpretation	4		

Environmental Science Electives (9-15 hours, to total 120 hours) by advisement – (for Option I)			
<p>AGRI 3318 - Agricultural Statistics or MATH 3360 - Statistical Methods (It is recommended that one of these courses, if selected as an elective, be taken before BIOL 4416)</p> <p>ECON 4355 - Environmental and Natural Resource Economics GEOL 4401 - Sedimentology and Stratigraphy GESG 3303 - Oceanography GESG 3313 - Meteorology ENVR 4095 - Problems ENVR 4301 - Preparation of Environmental Impact Statements ENVR 4311 - Modeling Earth and Environmental Systems ENVR 4320 - Global Agriculture and the Environment ENVR 4340 - Environmental Project Management ENVR 4350 - Computer Applications in Hydrogeology</p>	9-15		
<p>Note: To make the degree in environmental science more specialized, it is recommended that elective and additional courses be taken for a second major in either biology or chemistry. A second major gives the student an area of specialization within the area of environmental science. To get a second major in biology, a student needs to take (in addition to the courses listed in the suggested curriculum) courses and accompanying labs from the following list to complete the Biology Elective Requirement: BIOL 3099, BIOL 3301, BIOL 3312, BIOL 3420, BIOL 3510, BIOL 4425, or BIOL 4510 (if not taken to satisfy the Environmental Science Core).</p> <p>Note: The Biology Elective requirement specifies six BIOL courses beyond the 1000 level, five of which must have a lab.</p> <p>For information about a second major in chemistry, refer to the “Department of Chemistry and Physics” section of the University Catalog. For information about the master of science (M.S.) degree in environmental science, refer to the “Graduate Catalog.”</p>			
Option II: Environmental Science/Geology Emphasis Major Requirements (87-98 hours)			
**** C or better required in all courses in the Major Requirements ****			
Major-Specific University Core Requirements (15 hours) – (for Option II)			
The following courses are required for their specific Core areas <u>instead of</u> the courses listed above in the general University Core Curriculum.			
<p>Core 20 - Mathematics (3 hours)</p> <ul style="list-style-type: none"> MATH 1316 - Plane Trigonometry or MATH 2412 - Pre-Calculus Math (Fourth hour of MATH 2412, if taken, will count towards Core 90.) 	3		
<p>Core 30 - Life and Physical Sciences (6 hours)</p> <ul style="list-style-type: none"> GEOL 1403 - Physical Geography GEOL 1404 - Historical Geography (Lab hours will count towards Core 90.) 	3	3	
<p>Core 90 - Component Area Option (6 hours)</p> <ul style="list-style-type: none"> ENGL 1302 - Academic Writing and Research or ENGL 2311 - Introduction to Professional and Technical Communication Lab hours from GEOL 1403/1404 and fourth hour from MATH 2412 (if taken) or from fourth hour of other Core 30 course or from IDS 1071 	3		
	1	1	1

Environmental Science/Geology Core Requirements (72-83 hours) – (for Option II)	
BIOL 1411 - Botany and BIOL 1413 - Zoology or BIOL 1406 - Basic and Contemporary Biology I and BIOL 1407 - Basic and Cont. Biology II	4,4
CHEM 1411 - Chemistry I	4
CHEM 1412 - Chemistry II	4
PHYS 1401 - General Physics I	4
GEOL 3350 - Hydrogeology	3
GEOL 3411 - Structural Geology	4
GEOL 3471 - Mineralogy	4
GEOL 3475 - Petrology	4
GEOL 4401 - Sedimentology and Stratigraphy	4
ENVR 4302 - Environmental Law	3
ENVR 4306 - Hazardous Waste Site Assessment	3
BIOL 3418 - Wildland Soils or PSES 2311 - Fundamentals of Soil Science	3-4
BIOL 4416 - Introductory Biometry or MATH 3360 - Statistical Methods or MATH 2413 - Calculus I	3-4
CHEM 2533 - Elementary Organic Chemistry (Preferred, but CHEM 3511 may be substituted. See department adviser.)	5
GEOL 4098 - Internship in Geology or ENVR 4098 - Internship in Environmental Science	1-4
GEOL 4305 - Field Methods or ENVR 4404 - Environmental Sampling and Interpretation	3-4
12-17 hours from: BIOL 2572 - Microbiology BIOL 4310 - General Ecology BIOL 4210L - General Ecology Lab GEOL 3312 - Geomorphology GEOL 3325 - Environmental Geology GEOL 3406 - Paleontology GESC 3303 - Oceanography ENVR 4301 - Preparation of Environmental Impact Statements ENVR 4305 - Introduction to Geographic Information Systems	12-17
Environmental Science/Geology Electives (0-6 hours, to total 120 hours) by advisement – (for Option II)	
***** C or better required in all courses in the Major Subject *****	
Electives (as needed to provide a total of 120 hours, of which at least 36 must be advanced) NOTE: MATH 2413 is strongly recommended.	0-6

B.S. Degree Requirements (0 hours)	
Requirements are satisfied by the Major Requirements.	
Total hours required to complete degree: 120 hours Depending on transfer credits and other substitutions/waivers, student may need to take additional electives as needed to total a minimum of 120 hours or the minimum total hours required for this degree, of which at least 36 must be advanced (3000/4000 level) and earned at WTAMU.	
Prerequisites Some courses may require prerequisites. See the University Catalog for more information.	
Advising Notes	
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. In addition, this document is used as an advising resource. For official information, please refer to the University Catalog.	