

**Advising Services
Degree Checklist
2023-2024**

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

NAME: _____ WT ID: _____ DATE: _____

**Environmental Science/Geology Emphasis – Option II
Department of Life, Earth and Environmental
Sciences – NSB 348A 651-2570**

CORE CURRICULUM COURSES: 42 HOURS		HRS	
Communication (Core 10)			
ENGL 1301 Intro. to Academic Writing & Argumentation OR ENGL 1311 Writing About Ideas	3		
COMM 1315, 1318, or 1321	3		
Mathematics (Core 20)			
See University Core Requirements below	(3)		
Life and Physical Sciences (Core 30)			
See University Core Requirements below	(6)		
Language, Philosophy and Culture (Core 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 (Core 50)			
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 Choose 1	3		
American History (Core 60)			
HIST 1301, 1302, 2301, 2381, 2382 Choose 2	6		
Government/Political Science (Core 70)			
POSC 2305 and 2306	6		
Social and Behavioral Sciences (Core 80)			
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; GEOG 1302; PSYC 2301; SOCI 1301 Choose 1	3		
Component Area Option (Core 90)			
See University Core Requirements below	(6)		
ENVIRONMENTAL SCIENCE MAJOR REQUIREMENTS: 78-85 HOURS			
A grade of "C" or better must be earned in all courses required for major.			
UNIVERSITY CORE REQUIREMENTS: 15 HOURS			
CORE 20			
MATH 1316* or MATH 2412*[3]	3		
CORE 30			
GEOG 1403[3] Physical Geology	3		
CORE 30			
GEOG 1404[3] Historical Geology	3		
CORE 90			
ENGL 1302* Research and Rhetoric OR ENGL 2311* Introduction to Professional and Technical Communication	3		
CORE 90			
GEOG 1403L[1]; 1404L[1]; and Fourth hour from MATH 2412[1], additional lab hour from Life & Physical Sciences, or IDS 1071	3		
ENVIRONMENTAL SCIENCE/GEOLOGY CORE: 73-83 HOURS			
BIOL 1406, 1406L AND 1407*, 1407L OR BIOL 1411, 1411L AND 1413, 1413L	8		
CHEM 1411*, 1411L Chemistry I	4		
CHEM 1412*, 1412L Chemistry II	4		
PHYS 1401*, 1401L General Physics I	4		
GEOG 3471*, 3471L Mineralogy	4		
GEOG 3475*, 3475L Petrology	4		
GEOG 3411*, 3411L Structural Geology	4		

**Bachelor of Science Degree
BS.ENVIR.SCIENCE (105)**

GEOG 3350*, 3350L Hydrogeology	3		
GEOG 4401*, 4401L Sedimentology and Stratigraphy	4		
GEOG 4098* Internship in Geology OR ENVR 4098* Internship in Environmental Science	1-4		
GEOG 4305* Field Methods OR ENVR 4404, 4404L Environmental Sampling and Interpretation	3-4		
CHEM 2533*, 2533L Elementary Organic Chemistry - Preferred, but CHEM 3511 may be substituted. See dept. advisor.	5		
ENVR 4302* Environmental Law	3		
ENVR 4306, 4306L Hazardous Waste Site Assessment	3		
BIOL 3418, 3418L Wildland Soils OR PSES 2411*, 2411L Soils and the Environment	4		
BIOL 4416, 4416L Introductory Biometry MATH 3360* Statistical Methods MATH 2413* Calculus I Choose 1	3-4		
Choose four courses from: GESC 3303* Oceanography GEOG/BIOL 3406*, 3406L Paleontology GEOG 3325* Environmental Geology GEOG 3312* Geomorphology ENVR 4301* Preparation of Environmental Impact Statements ENVR 4305 Introduction to Geographic Information Systems BIOL 2572*, 2572L Microbiology OR BIOL 2420*, 2420L Applied Microbiology BIOL 4310, 4210L General Ecology	12-17		
BACHELOR OF SCIENCE REQUIREMENTS Covered by requirements for major.			
ELECTIVES: 0-6 HOURS BY ADVISEMENT			
ELECTIVES (0-6 HOURS AS NEEDED) • MATH 2413 is strongly recommended.	0-6		
MINIMUM HOURS REQUIRED TO COMPLETE DEGREE	120***		

* Indicates prerequisites—see catalog for more information.

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

*** It is possible that the total number of hours required could exceed 120 if additional advanced hours are needed to attain the required 39 advanced hours (e.g. if BIOL 2572, CHEM 2533, MATH 2413 and PSES 2411 are selected for the major requirements).

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.

WTAMU ADVISING SERVICES – 2023-2024 Curriculum Guide

Major: Environmental Sci./Geology Emphasis, B.S.

Major Code: 105

Year 1: Fall	
CORE 10 (Communication) – ENGL 1301 or 1311	3
CORE 20 (Mathematics) – MATH 1316 or 2412 (1314 if needed)	3
CORE 30 (Life & Phys. Sci.) – GEOL 1403 Physical Geology	3
CORE 90 (Component Area Option) – GEOL 1403L	1
CORE – See checklist for options ¹	3
Total:	13

Year 1: Spring	
CORE 30 (Life & Phys. Sci.) – GEOL 1404 Historical Geology	3
CORE 90 (Component Area Option) – GEOL 1404L	1
CORE 90 (Component Area Option) – ENGL 1302, 1312 or 2311	3
BIOL 1406/1406L or 1411/1411L (if Core 20 is completed)	4
CORE – See checklist for options ¹	3
Total:	14

Year 2: Fall	
Environmental Science/Geology Core (see checklist for required courses)	3-4
BIOL 1407/1407L or 1413/1413L	4
CHEM 1411/1411L Chemistry I	4
CORE – See checklist for options ¹	3
CORE – See checklist for options ¹	3
Total:	17-18

Year 2: Spring	
CHEM 1412/1412L Chemistry II	4
PHYS 1401/1401L General Physics I	4
Environmental Science/Geology Core	3-4
CORE – See checklist for options ¹	3
CORE – See checklist for options ¹	3
Total:	17-18

Year 3: Fall	
Environmental Science/Geology Core	5
Environmental Science/Geology Core	3
Environmental Science/Geology Core	3-4
Advanced Elective	3-5
CORE – See checklist for options ¹	3
Total:	17-18

Year 3: Spring	
Environmental Science/Geology Core	3-4
Environmental Science/Geology Core	3-4
Environmental Science/Geology Core	3-4
Environmental Science/Geology Core	3-4
CORE – See checklist for options ¹	3
Total:	15-18

Year 4: Fall	
Environmental Science/Geology Core	3-4
Environmental Science/Geology Core	3-4
Environmental Science/Geology Core	3-4
Environmental Science/Geology Core	3
Elective if needed	3-4
Total:	15-18

Year 4: Spring	
Environmental Science/Geology Core	3-4
Environmental Science/Geology Core	3-4
Environmental Science/Geology Core	3-4
Elective if needed	3-4
Total:	12-16

¹ **CORE:** Civil 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.

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

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.