



AS Geology to  
Bachelor of Science in Geoscience  
Environmental Science Concentration <sup>T</sup>  
**Guided Pathway**  
Effective for the 2019-2020 Catalog



### First Year – Central Texas College

FIRST SEMESTER	SECOND SEMESTER
<sup>C</sup> MATH 1414	GEOL 1404 Historical Geology
GEOL 1403 Physical Geology	<sup>C</sup> SPCH 1315, 1318 or 1321
<sup>C</sup> ENGL 1301 Composition I	<sup>C</sup> HIST 1302 United States History II
<sup>C</sup> HIST 1301 United States History I	CHEM 1411 College Chemistry I
<b>MATH 1316</b> Trigonometry <u>OR</u> <b>MATH 2412</b> Pre-Calculus	<b>BIOL 1406</b> – General Biology (BIOL 1306+1106)

Total Semester Hours: 17

Total Semester Hours: 16

### Second Year – Central Texas College

It's best to apply to Tarleton State University a full semester before you plan to transfer.

FIRST SEMESTER	SECOND SEMESTER
GEOL 1405 Introduction to Environmental Science	<sup>C</sup> BIOL 1407 General Biology II
<sup>C</sup> CHEM 1412 College Chemistry II	<sup>C</sup> GOVT 2306 Texas Government
<sup>C</sup> GOVT 2305 Federal Government	<sup>C*</sup> Language/Philosophy/Culture Studies
<sup>C*</sup> Creative Arts Selection	<sup>C*</sup> Social/Behavioral Science Selection
	<sup>C*</sup> Component Area Option

Total Semester Hours: 14

Total Semester Hours: 16

### AS: Geology

You will need to apply for the associate's degree at your community college. Contact your advisor there for more information.

#### These courses may be completed at CTC (if offered) or TSU

<sup>C</sup> ENGL 1302 – Composition II	<b>MATH 2413</b> Calculus I <u>OR</u> <b>MATH 2414</b> Calculus II
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Total Semester Hours: 7

### Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
<b>GEOL 3400</b> – Crystallography and Mineralogy (Fall Only)	<b>EASC 4313</b> – Environmental Techniques (Spring Only)
<b>GEOL 4305</b> – Field Geology (Fall Even Only)	<b>GEOL 3320</b> – Hydrogeology (Fall Even Only) <u>OR</u> <b>GEOL 3413</b> – Stratigraphy and Sedimentology (Spring Odd Only) <u>OR</u> <b>EASC 3330</b> – Meteorology (Spring Even Only) <u>OR</u> <b>EASC 3340</b> – Oceanography (Fall Odd Only)
<b>SOIL 3301</b> – Soil Science <u>AND</u> <b>SOIL 3101</b> – Soil Science Laboratory	<b>ENVS 3302</b> – Soils, Land Use & the Environment <u>OR</u> <b>SOIL 3412</b> – Soil Genesis, Morphology, and Classification
<b>GEOL 3314</b> – Geochemistry (Fall Even Only)	<b>EASC 2451</b> – Intro to GIS

Total Semester Hours: 14

Total Semester Hours: 13-15

### Fourth Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
<b>MATH 3450</b> – Principles of Bio-Statistics	<b>EASC 3350</b> – Environmental Science (Spring Even Only)
<b>GEOL 3320</b> – Hydrogeology (Fall Even Only) <u>OR</u> <b>GEOL 3413</b> – Stratigraphy and Sedimentology (Spring Odd Only) <u>OR</u> <b>EASC 3330</b> – Meteorology (Spring Even Only) <u>OR</u> <b>EASC 3340</b> – Oceanography (Fall Odd Only)	<b>GEOL 3320</b> – Hydrogeology (Fall Even Only) <u>OR</u> <b>GEOL 3413</b> – Stratigraphy and Sedimentology (Spring Odd Only) <u>OR</u> <b>EASC 3330</b> – Meteorology (Spring Even Only) <u>OR</u> <b>EASC 3340</b> – Oceanography (Fall Odd Only)
<b>CHEM 2423</b> – Organic Chemistry I <u>OR</u> <b>CHEM 3407</b> – Quantitative Analysis (Fall Only) <u>OR</u> <b>CHEM 4408</b> – Instrumental Analysis (Spring Only) <u>OR</u> <b>CHEM 4477</b> – Environmental Chemistry (Fall Even Only)	<b>CHEM 2423</b> – Organic Chemistry I <u>OR</u> <b>CHEM 3407</b> – Quantitative Analysis (Fall Only) <u>OR</u> <b>CHEM 4408</b> – Instrumental Analysis (Spring Only) <u>OR</u> <b>CHEM 4477</b> – Environmental Chemistry (Fall Even Only)
<b>GEOL 3310</b> – Geomorphology (Fall Odd Only)	<b>BIOL 4401</b> – Ecology

Total Semester Hours: 14-15

Total Semester Hours: 14-15

TOTAL: 125-128

**This is not an official degree plan. Check with an advisor; degree plans may change in later catalogs.**

Part-time students may also follow this sequence. Developmental coursework may be required.

\* You may take a different course to meet this requirement. A specific list is available from your advisor.

<sup>C</sup> This course counts for the Core Curriculum at any public college or university in Texas.

() Course numbers shown in parentheses are equivalent to these courses at Tarleton State University.

<sup>T</sup> Degree availability varies by campus; consult [www.tarleton.edu](http://www.tarleton.edu) for more information.

For questions about the university portion of this pathway,  
contact the Department of Chemistry, Geosciences, and Physics at 254-968-9953.