



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



**First Year – Central Texas College**

FIRST SEMESTER	SECOND SEMESTER
◌ MATH 1414	GEOL 1404 Historical Geology
GEOL 1403 Physical Geology	◌ SPCH 1315, 1318 or 1321
◌ ENGL 1301 Composition I	◌ HIST 1302 United States History II
◌ HIST 1301 United States History I	CHEM 1411 College Chemistry I
MATH 1316 – Trigonometry <u>OR</u> MATH 2413 – Calculus I <u>OR</u> MATH 2414 – Calculus II	BIOL 1406 – General Biology (BIOL 1306+1106)

Total Semester Hours: 17-18

Total Semester Hours: 18

**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 Environmental Science	◌ BIOL 1407 Biology for Science Majors II
◌ CHEM 1412 College Chemistry II	◌ GOVT 2306 Texas Government
◌ GOVT 2305 Federal Government	◌ *Language/Philosophy/Culture Studies
◌ *Creative Arts Selection	◌ *Social/Behavioral Science Selection
	◌ *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**

◌ ENGL 1302 – Composition II	MATH 1316 Plane Trigonometry <u>OR</u> MATH 2413 Calculus I <u>OR</u> MATH 2414 Calculus II
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Total Semester Hours: 6-7

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
GEOL 4305 – Field Geology (Fall Even Years)	EASC 3330 – Meteorology (Spring Even Years)
GEOL 3405 – Paleontology (Fall Even Only) <u>OR</u>	GEOL 3405 – Paleontology (Fall Even Only) <u>OR</u>
GEOL 3406 – Igneous and Metamorphic Petrol (Spring Odd Only)	GEOL 3406 – Igneous and Metamorphic Petrol (Spring Odd Only)
<u>OR</u> GEOL 3412 – Structural Geology (Spring Odd Years) <u>OR</u>	<u>OR</u> GEOL 3412 – Structural Geology (Spring Odd Years) <u>OR</u>
GEOL 3413 – Stratigraphy and Sedimentology (Spring Odd Only)	GEOL 3413 – Stratigraphy and Sedimentology (Spring Odd Only)
<u>OR</u>	<u>OR</u>
GEOL 3314 – Geochemistry (Fall Even Years) <u>OR</u>	GEOL 3314 – Geochemistry (Fall Even Years) <u>OR</u>
GEOL 3320 – Hydrogeology (Fall Even Years) <u>OR</u>	GEOL 3320 – Hydrogeology (Fall Even Years) <u>OR</u>
GEOL 4311 – Economic Geology (Fall Odd Years) <u>OR</u>	GEOL 4311 – Economic Geology (Fall Odd Years) <u>OR</u>
GEOL 4312 – Petroleum Subsurface Geology (Fall Odd Years)	GEOL 4312 – Petroleum Subsurface Geology (Fall Odd Years)
EASC 2451 – Intro to GIS	Advanced Elective
EASC 3340 – Oceanography (Fall Odd Years)	Advanced Elective
GEOL 3400 – Crystallography and Mineralogy	

Total Semester Hours: 17-18

Total Semester Hours: 12-13

**Fourth Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
GEOL 3310 – Geomorphology (Fall Odd Years)	EASC 4313 – Environmental Techniques (Spring Only)
EASC 3320 – Astronomy (Fall Odd Years)	Advanced Elective
GEOL 3405 – Paleontology (Fall Even Only) <u>OR</u>	Advanced Elective
GEOL 3406 – Igneous and Metamorphic Petrol (Spring Odd Only) <u>OR</u>	
GEOL 3412 – Structural Geology (Spring Odd Years) <u>OR</u>	
GEOL 3413 – Stratigraphy and Sedimentology (Spring Odd Only) <u>OR</u>	

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

<b>GEOL 3314</b> – Geochemistry (Fall Even Years) <b><u>OR</u></b> <b>GEOL 3320</b> – Hydrogeology (Fall Even Years) <b><u>OR</u></b> <b>GEOL 4311</b> – Economic Geology (Fall Odd Years) <b><u>OR</u></b> <b>GEOL 4312</b> – Petroleum Subsurface Geology (Fall Odd Years)	Advanced Elective
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Total Semester Hours: 9-10

Total Semester Hours: 12

TOTAL: 121-126

**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.
- 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.