



**AA/AS General Studies**  
Geology Emphasis  
Bachelor of Science in Geoscience  
Earth Science Concentration <sup>T</sup>  
**Guided Pathway**



Effective beginning with the 2019-2020 catalog

## First Year - Collin College

(Developmental coursework may be required.)

FIRST SEMESTER	SECOND SEMESTER
<b>C</b> ENGL 1301 Composition I	<b>C</b> ENGL 1302 Composition II (or ENG 2311)
<b>MATH 1316</b> – Trigonometry <u>OR</u> <b>MATH 2413</b> – Calculus I <u>OR</u> <b>MATH 2414</b> – Calculus II	<b>MATH 1316</b> Trigonometry <u>OR</u> <b>MATH 2413</b> Calculus I <u>OR</u> <b>MATH 2414</b> Calculus II
<b>C</b> Speech (see list below) – 3 hours	<b>C</b> Lang, Phil, & Culture (see list below) - 3 hours
<b>C</b> History (see list below) – 3 hours	<b>C</b> History (see list below) – 3 hours
<b>GEOL 1403</b> – Physical Geology (GEOL 1303+1103)	<b>GEOL 1404</b> – Historical Geology (GEOL 1304+1104)
16-17 credit hours	17 credit hours

## Second Year - Collin College

Apply to Tarleton State University a full semester before you plan to transfer.

FIRST SEMESTER	SECOND SEMESTER
<b>C</b> GOVT 2305 Federal Government	<b>C</b> GOVT 2306 Texas Government
<b>C</b> CHEM 1411 – College Chemistry I (CHEM 1311+1111)	<b>C</b> Creative Arts (see list below) – 3 hours
<b>C</b> Social/Behavioral Science (see list below) -3 hours	<b>C</b> MATH 1314 College Algebra <u>OR</u> <b>MATH 2412</b> Pre-Calculus
<b>C</b> CHEM 1412 – College Chemistry II (CHEM 1312+1112)	Related Elective (see list below) - 4 hours
14 credit hours	14 credit hours

### AA in General Studies

Contact your advisor at Collin College for information about applying for your Associate's degree.

#### These courses may be taken at Collin College or TSU

<b>C</b> First Year Seminar Elective (Learning Frameworks)	<b>GEOL 1407</b> – Intro to Environmental Science (GEOL 1307+1107)
<b>BIOL 1406</b> – General Biology (BIOL 1306+1106)	<b>BIOL 1407</b> – General Biology II (BIOL 1307+1107)

Total Semester Hours: 13-15

## Third Year – Tarleton State University

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

Total Semester Hours: 14-15

Total Semester Hours: 12-13

## Fourth Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
<b>GEOL 3310</b> – Geomorphology (Fall Odd Years)	<b>EASC 4313</b> – Environmental Techniques (Spring Only)
<b>EASC 3320</b> – Astronomy (Fall Odd Years)	Advanced Elective
<b>GEOL 3405</b> – Paleontology (Fall Even Only) <u>OR</u>	Advanced Elective
<b>GEOL 3406</b> – Igneous and Metamorphic Petrol (Spring Odd Only) <u>OR</u>	
<b>GEOL 3412</b> – Structural Geology (Spring Odd Years) <u>OR</u>	
<b>GEOL 3413</b> – Stratigraphy and Sedimentology (Spring Odd Only) <u>OR</u>	
<b>GEOL 3314</b> – Geochemistry (Fall Even Years) <u>OR</u>	
<b>GEOL 3320</b> – Hydrogeology (Fall Even Years) <u>OR</u>	
<b>GEOL 4311</b> – Economic Geology (Fall Odd Years) <u>OR</u>	
<b>GEOL 4312</b> – Petroleum Subsurface Geology (Fall Odd Years)	

Total Semester Hours: 9-10

Total Semester Hours: 12

TOTAL: 121

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

**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.

C 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.

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

Mathematics – **AS degree** MUST choose TWO from: **MATH** 1314, 1414, 1316, 1342, 2305, 2318, 2320, 2412, 2413, 2414, 2415. **AA degree** may choose ONE from above or ONE from: **MATH** 1324, 1325, 1332, 1350, 1351

Speech – choose one from: **SPCH** 1311, 1315, or 1321

History – choose two from: **HIST** 1301, 1302, 2301

Language, Philosophy, & Culture - choose one from: **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, **HIST** 2311, 2312, 2321, 2322, **HUMA** 1301, **PHIL** 1301, 1304, 2303, 2306, 2307, 2321

Social and Behavioral Sciences – choose one from: **ANTH** 2302, 2346, 2351, **ECON** 2301, 2302, **PSYC** 2301, **SOCI** 1301, 1306

Creative Arts - choose one from: **ARTS** 1301, 1303, 1304, 1313, **DANC** 2303, **DRAM** 1310, 2361, 2362, 2366, **MUSI** 1306, 1307, 1310

Related Electives - choose at least 1 course from (second math course can be from this category for AS):

GEOL 1305 Environmental Science-Natural Disasters	BIOL 2406 Environmental Biology	MATH 1342 Elementary Statistical Methods
GEOL 1445 Oceanography	ENGL 2311 Technical & Business Writing	MATH 2413 Calculus I
GEOL 1447 Introduction to Meteorology	ENVR 1401 Environmental Science I	MATH 2414 Calculus II
BIOL 2406 Environmental Biology		PHYS 2425 University Physics I
		PHYS 2426 University Physics II