



AA/AS General Studies
Geology Emphasis
Bachelor of Science in Geoscience
Geology Concentration ^T



Guided Pathway
Effective beginning with the 2019-2020 catalog

First Year - Collin College

(Developmental coursework may be required.)

FIRST SEMESTER	SECOND SEMESTER
^C ENGL 1301 Composition I	^C ENGL 1302 Composition II (or ENG 2311)
MATH 2412 Pre-Calculus <u>OR</u> MATH 2413 Calculus I <u>OR</u> MATH 2414 Calculus II	MATH 2412 Pre-Calculus <u>OR</u> MATH 2413 Calculus I <u>OR</u> MATH 2414 Calculus II
^C Speech (see list below) – 3 hours	^C Lang, Phil, & Culture (see list below) - 3 hours
^C History (see list below) – 3 hours	^C History (see list below) – 3 hours
^C CHEM 1411 – College Chemistry I (CHEM 1311+1111)	^C CHEM 1412 – College Chemistry II (CHEM 1312+1112)
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
^C GOVT 2305 Federal Government	^C GOVT 2306 Texas Government
PHYS 2425 – University Physics I (PHYS 2325+2125)	^C Creative Arts (see list below) – 3 hours
^C Social/Behavioral Science (see list below) -3 hours	PHYS 2426 – University Physics II (PHYS 2326+2126)
Related Elective (see list below) - 4 hours	GEOL 1404 – Historical Geology (GEOL 1304+1104)
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

^C Math Core Elective	General Elective
^C First Year Seminar Elective (Learning Frameworks)	

Total Semester Hours: 7-9

Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
GEOL 4305 – Field Geology (Fall Even Years)	GEOL 3412 – Structural Geography (Spring Odd Years)
GEOL 3310 – Geomorphology (Fall Odd Years) <u>OR</u>	GEOL 3310 – Geomorphology (Fall Odd Years) <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
GEOL 3405 – Paleontology (Fall Even Years)	Advanced Elective

Total Semester Hours: 14

Total Semester Hours: 13

Fourth Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
Advanced Elective	EASC 4313 – Environmental Techniques (Spring Only)
GEOL 3400 – Crystallography and Mineralogy	Advanced Elective
GEOL 3310 – Geomorphology (Fall Odd Years) <u>OR</u>	GEOL 3406 - Igneous and Metamorphic Petrol (Spring Odd Years)
GEOL 3314 – Geochemistry (Fall Even Years) <u>OR</u>	GEOL 3413 – Stratigraphy and Sedimentology (Spring Odd Years)
GEOL 3320 – Hydrogeology (Fall Even Years) <u>OR</u>	
GEOL 4311 – Economic Geology (Fall Odd Years) <u>OR</u>	
GEOL 4312 – Petroleum Subsurface Geology (Fall Odd Years)	

Total Semester Hours: 10

Total Semester Hours: 14

TOTAL: 120

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 for more information.

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

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 18 hours 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	
GEOL 1447 Introduction to Meteorology	ENVR 1401 Environmental Science I	
BIOL 2406 Environmental Biology		