



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



Effective beginning with the 2020-2021 catalog

First Year - Collin College

(Developmental coursework may be required.)

FIRST SEMESTER	SECOND SEMESTER
° ENGL 1301 Composition I	° ENGL 1302 Composition II (or ENG 2311)
° Mathematics (see list below) – 3 hours (TSU requires MATH 2412 – Pre-Calculus)	° Related Elective (see list below) - 4 hours (TSU requires MATH 2413 – Calculus I)
° Speech (see list below) – 3 hours	° Lang, Phil, & Culture (see list below) - 3 hours
° History (see list below) – 3 hours	° History (see list below) – 3 hours
° Related Elective (see list below) - 4 hours (TSU requires CHEM 1411 – College Chemistry I (CHEM 1311+1111))	Related Elective (see list below) - 4 hours (TSU requires CHEM 1412 – College Chemistry II (CHEM 1312+1112))

Second Year - Collin College

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

FIRST SEMESTER	SECOND SEMESTER
° GOVT 2305 Federal Government	° GOVT 2306 Texas Government
° Related Elective (see list below) - 4 hours (TSU requires GEOL 1403 – Physical Geology (GEOL 1303+1103))	° Creative Arts (see list below) – 3 hours
° Social/Behavioral Science (see list below) - 3 hours	Related Elective (see list below) - 4 hours (TSU requires PHYS 2426 – University Physics II (PHYS 2326+2126))
Related Elective (see list below) - 4 hours (TSU requires PHYS 2425 – University Physics I (PHYS 2325+2125))	Related Elective (see list below) - 4 hours (TSU requires MATH 2414 – Calculus II)

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

° First Year Seminar Elective (Learning Frameworks)	GEOL 1407 – Intro to Environmental Science (GEOL 1307+1107)
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Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
GEOL 3320 – Hydrogeology (Fall Even Years)	SOIL 3301 – Soil Science AND SOIL 3101 – Soil Science Laboratory
EASC 2451 – Intro to GIS	MATH 3450 – Principles of Bio-Statistics
GEOL 4305 – Field Geology (Fall Even Years)	CHEM 2423 – Organic Chemistry I OR CHEM 3407 – Quantitative Analysis (Fall Only) OR CHEM 4408 – Instrumental Analysis (Spring Only) OR CHEM 4477 – Environmental Chemistry (Fall Even Years)
GEOL 3314 – Geochemistry (Even Years)	

Fourth Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
CHEM 2423 – Organic Chemistry I OR CHEM 3407 – Quantitative Analysis (Fall Only) OR CHEM 4408 – Instrumental Analysis (Spring Only) OR CHEM 4477 – Environmental Chemistry (Fall Even Years)	EASC 4313 – Environmental Techniques
GEOL 3400 – Crystallography and Mineralogy	GEOL 3413 – Stratigraphy and Sedimentology
GEOL 3310 – Geomorphology (Fall Odd Years)	GEOL 3406 – Igneous and Metamorphic Petrol
Advanced Elective	EASC 3350 – Environmental Science (Spring Odd Years)

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.

^T Degree availability varies by campus; consult 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 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 1403 Physical Geology	CHEM 1411 General Chemistry I	MATH 2413 Calculus I
GEOL 1404 Historical Geology	CHEM 1412 General Chemistry II	MATH 2414 Calculus II
GEOL 1445 Oceanography	ENGL 2311 Technical & Business Writing	PHYS 2425 University Physics I
GEOL 1447 Introduction to Meteorology	ENVR 1401 Environmental Science I	PHYS 2426 University Physics II
BIOL 2406 Environmental Biology		

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