



AA/AS General Studies
 Environmental Science Emphasis to
 Bachelor of Science in Environmental Science
 Geospatial Information Science Concentration^T
Guided Pathway
 Effective beginning with the 2019-2020 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)
◌ MATH 1342 – Elementary Statistical Methods	CHEM 1411 (CHEM 1311+1111) – College Chemistry 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
◌ ENVR 1401 Environmental Science I	◌ ENVR 1402 Environmental Science II

Total Semester Hours: 16

Total Semester Hours: 17

Second Year - Collin College

It's best to 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
◌ BIOL 1406 (BIOL 1306 & 1106) – Biology for Science Majors	◌ Creative Arts (see list below) – 3 hours
◌ SOCI 1301 – Introductory Sociology	◌ BIOL 1407 (BIOL 1307 & 1107) – Biology for Science Majors II
GEOL 1403 (GEOL 1303+1103) – Physical Geology	◌ MATH 1316 – Plane Trigonometry <u>OR</u> MATH 2412 – Precalculus Math

Total Semester Hours: 14

Total Semester Hours: 13-14

AA in General Studies

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

These courses may be completed at CC or TSU	
◌ First Year Seminar Elective (Learning Frameworks)	GEOL 1407 (GEOL 1305+1105) – Introduction to Environmental Science

Total Semester Hours: 7

Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
WSES 2405 – Ecology for Natural Resource Managers	EASC 3350 – Environmental Science <u>OR</u> EASC 4313 – Environmental Techniques <u>OR</u> SOIL 3412 – Soil Genesis, Morphology, and Classification <u>OR</u> WSES 4313 – Vegetation Measurement, Inventory, & Monitoring
ENVS 2451 – Introduction to Geographic Information Systems	¹ Life Science Elective (3-4 credits)
ENVS 4084 – Internship <u>OR</u> ENVS 4088 – Undergraduate Research <u>OR</u> ENVS 4340 – Natural Resource Field Studies <u>OR</u> WSES 4084 – Internship in the Natural Resource Sciences <u>OR</u> WSES 4088 – Undergraduate Research in the Natural Resource Sciences <u>OR</u> WSES 4342 – Field Study Abroad <u>OR</u> WSES 4340 – Natural Resource Field Studies	ENVE 4340 – Advanced GIS Applications <u>OR</u> GEOG 4451 – Applied Remote Sensing <u>OR</u> EASC 3360 – Remote Sensing <u>OR</u> BCIS 3333 – C# Programming
² Environmental & Society Requirement	GEOG 3451 – Advanced Geographic Information Systems
ENVS 3305 – GIS for Natural Resources	WSES 3320 – Watershed Management <u>OR</u> WSES 3313 – Plant Diversity and Conservation <u>OR</u> WSES 4303 – Ecological Restoration

Total Semester Hours: 17

Total Semester Hours: 16-20

For questions about the university portion of this pathway, contact the Wildlife, Sustainability & Ecosystem Sciences department at 254-968-9221.

Fourth Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
ENVE 4340 – Advanced GIS Applications <u>OR</u> GEOG 4451 – Applied Remote Sensing <u>OR</u> EASC 3360 – Remote Sensing <u>OR</u> BCIS 3333 – C# Programming	ENVE 4340 – Advanced GIS Applications <u>OR</u> GEOG 4451 – Applied Remote Sensing <u>OR</u> EASC 3360 – Remote Sensing <u>OR</u> BCIS 3333 – C# Programming
WSES 3406 – Wildland Plant Identification and Ecology <u>OR</u> WSES 3408 – Dendrology and Woody Plant Identification (Spring Only) <u>OR</u> BIOL 3407 – Microbiology	SOIL 3301 – Soil Science AND SOIL 3101 – Soil Science Laboratory
ENVS 4187 – Environmental Science Capstone <u>OR</u> WSES 4187 – Senior Capstone Seminar	POLS 3310 – Environmental Politics <u>OR</u> POLS 4311 – Environmental Law
ENGL 3309 – Technical Writing & Document Design	Advanced WSES, ENVS, EASC, CHEM, GEOG, GEOL Elective (4 credits)
ENVS 3302 <u>OR</u> SOIL 3302 – Soils, Land Use, and The Environment	³ Physical Science Elective (3 – 4 credits)

Total Semester Hours: 12

Total Semester Hours: 12
Total Degree Hours: 124-129

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.

^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.

¹ Choose one from the following:

SOIL 4212 – Soil Ecology

BIOL 3407 – Microbiology

WSES 3309 – Aquaponics

WSES 3403 – Natural History of the Vertebrates

WSES 4309 – Plant-Animal Interactions

BIOL 3340 – Introduction to Marine Biology

BIOL 3415 – Plant Taxonomy

WSES 3313 – Plant Diversity and Conservation

WSES 4303 – Ecological Restoration

WSES 4311 – Fire Ecology

² Choose one from the following:

COMM 3305 – Environmental Communication

POLS 4310 – International Environmental Issues

SOCI 3312 – Environmental Sociology

WSES 3315 – Sustainability

ENVS 3323 – Ethical Issues in Agriculture and the Natural Resources

PHIL 4305 – Environmental Ethics

ECON 3304 – Environmental Economics

WSES 4306 – Water Resources Policy and Management

ENVS 3375 – Population, Pollution, and Resource Depletion

³ Choose one from the following:

SOIL 4213 – Soil Physical Properties

SOIL 4450 – Soil Nutrient Cycling

CHEM 4477 – Environmental Chemistry

GEOL 3310 – Geomorphology

SOIL 3412 – Soil Genesis, Morphology, and Classification

BIOL 4441 – Limnology

EASC 3350 – Environmental Science

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

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

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



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