



**AS General Studies-Chemistry Emphasis to  
Bachelor of Science in Chemistry  
Environmental 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
<sup>C</sup> ENGL 1301 Composition I	<sup>C</sup> ENGL 1302 Composition II (or ENG 2311)
<sup>C</sup> MATH 2413 Calculus I	<sup>C</sup> CHEM 1412 General Chemistry II
<sup>C</sup> Speech (see list below) – 3 hours	<sup>C</sup> Lang, Phil, & Culture (see list below) - 3 hours
<sup>C</sup> History (see list below) – 3 hours	<sup>C</sup> History (see list below) – 3 hours
<sup>C</sup> CHEM 1411 General Chemistry I	MATH 2414 Calculus II (090)

Total Semester Hours: 17

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**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
<sup>C</sup> GOVT 2305 Federal Government	<sup>C</sup> GOVT 2306 Texas Government
CHEM 2423 Organic Chemistry I	<sup>C</sup> Creative Arts (see list below) – 3 hours
<sup>C</sup> Social/Behavioral Science (see list below) -3 hours	CHEM 2425 Organic Chemistry II
MATH 2425 Calculus III	MATH 2320 Differential Equations

Total Semester Hours: 14

Total Semester Hours: 13

**AS in General Studies – Chemistry Emphasis**

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

**These courses may be completed at CC or TSU**

BIOL 1406 – General Biology (BIOL 1306+1106)	GEOL 1407 – Intro to Environmental Science (GEOL 1405 OR GEOL 1305+1105)
<sup>C</sup> First Year Seminar Elective (Learning Frameworks)	PHYS 1402 – College Physics II (PHYS 1302+1102)
PHYS 1401 – College Physics I (PHYS 1301+1101)	GEOL 1403 – Physical Geology (GEOL 1303+1103)

Total Semester Hours: 23

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
BIOL 3407 – Microbiology	CHEM 4160 – Lab Safety & Ethics
CHEM 3407 – Quantitative Analysis (Fall Only)	CHEM 4408 – Instrumental Analysis (Spring Only)
CHEM 4477 – Environmental Chemistry (Fall Even Only)	CHEM 4327 – Quantitative Organic Analysis (Spring Even Only)
	Advanced CHEM Elective

Total Semester Hours: 12

Total Semester Hours: 11

**Fourth Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
ENGL 3309 – Technical Writing and Document Design	WSES 3401 – Soils
CHEM 3423 – Physical Chemistry I (Fall Only)	EASC 4313 – Environmental Techniques
EASC 3350 – Environmental Science	MATH 3450 – Principles of Biostatistics

Total Semester Hours: 10

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Total Degree Hours: 127

**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.

<sup>C</sup> 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.

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

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

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

For questions about the university portion of this pathway,  
contact the Chemistry, Geoscience and Physics department at 254-968-9143.