

STEM

**Associate of Science to  
Bachelor of Science in Chemistry  
Environmental Concentration<sup>T</sup>  
Guided Pathway  
Effective for the 2019-2020 catalog<sup>1</sup>**



BHC CVC EFC ECC MVC NLC RLC

**First Year – Brookhaven, Cedar Valley, Eastfield, El Centro, Mountain View, North Lake, and Richland College<sup>2</sup>**

FIRST SEMESTER	SECOND SEMESTER
<sup>C</sup> ENGL 1301 – Composition I (010)	<sup>C</sup> ENGL 1302 – Composition II (010)
<sup>C</sup> MATH 2413 – Calculus I <sup>A*</sup> (020)	<sup>C</sup> HIST 1301 – United States History I (060)
EDUC 1300 – Learning Framework <sup>@</sup>	MATH 2414 – Calculus II
<sup>C</sup> CHEM 1411 – General Chemistry I (030)	<sup>C</sup> CHEM 1412 – General Chemistry II (030)
Total Semester Hours: 14	Total Semester Hours: 14

SUMMER SEMESTER
<sup>C</sup> HIST 1302 – United States History II* (060) <b>OR</b> <sup>C</sup> HIST 2301 – Texas History* (060)
<sup>C</sup> GOVT 2305 – Federal Government (070)
Total Semester Hours: 6

**Second Year – Brookhaven, Cedar Valley, Eastfield, El Centro, Mountain View, North Lake, and Richland College**

It's best to apply to Tarleton State University a full semester before you plan to transfer.

FIRST SEMESTER	SECOND SEMESTER
<b>Choose One:</b> <sup>C</sup> ENGL 2331 – World Literature* (040) <sup>C</sup> PHIL 1301 – Introduction to Philosophy* (040) <sup>C</sup> PHIL 2306 – Introduction to Ethics* (040)	CHEM 2425 – Organic Chemistry II <sup>++</sup>
<sup>C</sup> GOVT 2306 – Texas Government (070)	PHYS 2425 – University Physics I
CHEM 2423 – Organic Chemistry I <sup>++</sup>	<b>Choose One:</b> <sup>C</sup> ANTH 2346 – General Anthropology* (080) <sup>C</sup> COMM 1307 – Introduction to Mass Communication* (080) <sup>C</sup> ECON 2301 – Principles of Macroeconomics* (080) <sup>C</sup> PSYC 2301 – General Psychology* (080) <sup>C</sup> SOCI 1301 – Introduction to Sociology* (080)
<b>Choose One:</b> <sup>C</sup> ARTS 1301 – Art Appreciation* (050) <sup>C</sup> DANC 2303 – Dance Appreciation I* (050) <sup>C</sup> DRAM 1310 – Introduction to Theater* (050) <sup>C</sup> MUSI 1306 – Music Appreciation* (050)	<sup>C</sup> PHED 1164 – Introduction to Physical Fitness and Wellness (090)
<sup>C</sup> SPCH 1311 – Introduction to Speech Communication* (090) <b>OR</b> <sup>C</sup> SPCH 1315 – Public Speaking* (090)	
Total Semester Hours: 16	Total Semester Hours: 12

**Associate of Science (62 hours)**

You will need to apply for the associate's degree at your community college. Contact your advisor there for more information.

These courses may be completed at DCCCD or TSU	
GEOL 1407 – Intro to Environmental Science (GEOL 1405 OR GEOL 1305+1105)	PHYS 1402 – College Physics II (PHYS 1302+1102)
BIOL 1406 – General Biology (BIOL 1306+1106)	GEOL 1403 – Physical Geology (GEOL 1303+1103)
PHYS 1401 – College Physics I (PHYS 1301+1101)	
Total Semester Hours: 20	

**Third Year Courses – 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: 8

**Fourth Year Courses – 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	Total Semester Hours: 11
Total Degree Hours: 123	

**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>1</sup> You may use this pathway if you entered one of the seven colleges on or before this date.

<sup>2</sup> Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by one of the seven colleges of the DCCCD awarding the degree.

<sup>@</sup> All college students with fewer than 12 semester credit hours of successful college credit (grade of "C" or above) should take a student success course in the first semester.

<sup>A</sup> To register for MATH 2413, students must have completed the prerequisite math courses as follows: MATH 1314, MATH 1316, MATH 2412

<sup>+</sup> Consider completing ENGL 2311, MATH 2318, MATH 2415, & PHYS 2426 prior to transferring to a university. See your academic advisor for specific details.

<sup>C</sup> This course counts for the Core Curriculum at any public college or university in Texas.

<sup>\*</sup> There are several options to fulfill this requirement. See your academic advisor for a specific list.

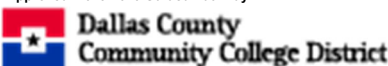
<sup>++</sup> Depending on which university you plan to attend, CHEM 2423 & CHEM 2425 may not be required prior to transfer. See your academic advisor for specific details.

*You must earn a grade of "C" or better in English 1301 and the selected college-level mathematics course and receive a GPA of at least 2.00 on all college-level course work.*

<sup>(j)</sup> Course numbers shown in parentheses are equivalent to these courses at Tarleton State University

<sup>1</sup> Degree availability varies by campus; consult [www.tarleton.edu](http://www.tarleton.edu) for more information.

Approved: 2019-2020 Guided Pathway



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