

STEM

**Associate of Science to  
Bachelor of Science in Chemistry  
Chemistry Teacher Certification (8-12) Concentration <sup>†</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	
C ENGL 1301 – Composition I (010)		C ENGL 1302 – Composition II (010)	
C MATH 2413 – Calculus I <sup>▲*</sup> (020)		C HIST 1301 – United States History I (060)	
EDUC 1300 – Learning Framework <sup>@</sup>		MATH 2414 – Calculus II	
C CHEM 1411 – General Chemistry I (030)		C CHEM 1412 – General Chemistry II (030)	

Total Semester Hours: 14

Total Semester Hours: 14

SUMMER SEMESTER	
C HIST 1302 – United States History II* (060) <b>OR</b> C HIST 2301 – Texas History* (060)	
C 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> C ENGL 2331 – World Literature* (040) C PHIL 1301 – Introduction to Philosophy* (040) C PHIL 2306 – Introduction to Ethics* (040)		CHEM 2425 – Organic Chemistry II <sup>++</sup>	
C GOVT 2306 – Texas Government (070)		PHYS 2425 – University Physics I	
CHEM 2423 – Organic Chemistry I <sup>++</sup>		<b>Choose One:</b> C ANTH 2346 – General Anthropology* (080) C COMM 1307 – Introduction to Mass Communication* (080) C ECON 2301 – Principles of Macroeconomics* (080) C PSYC 2301 – General Psychology* (080) C SOCI 1301 – Introduction to Sociology* (080)	
<b>Choose One:</b> C ARTS 1301 – Art Appreciation* (050) C DANC 2303 – Dance Appreciation I* (050) C DRAM 1310 – Introduction to Theater* (050) C MUSI 1306 – Music Appreciation* (050)		C PHED 1164 – Introduction to Physical Fitness and Wellness (090)	
C SPCH 1311 – Introduction to Speech Communication* (090) <b>OR</b> C 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.

Total Semester Hours: 12

**Third Year Courses – Tarleton State University**

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

GEOL 1407 – Intro to Environmental Science (GEOL 1305+1105 or GEOL 1405)	BCIS or COSC Elective
PHYS 1401 – College Physics I (PHYS 1301+1101)	PHYS 1402 – College Physics II (PHYS 1302+1102)
FIRST SEMESTER	
CHEM 3407 – Quantitative Analysis (Fall only)	CHEM 4408 – Instrumental Analysis (Spring only)
CHEM 4160 – Lab Safety & Ethics	ENGL 3309 – Technical Writing and Document Design
EDUC 3320 – Foundations of Teaching: Elementary (EC-6)	EDUC 3330 – Models of Instruction
PSYC 2308 – Child Psychology <b>OR</b>	READ 3351 – Content Area Literacy
PSYC 3303 – Educational Psychology <b>OR</b>	
CHFS 3300 – Child Development	

Total Semester Hours: 11

Total Semester Hours: 13

**Fourth Year Courses – Tarleton State University**

FIRST SEMESTER		SECOND SEMESTER	
CHEM 3423 – Physical Chemistry I (Fall only)		EDUC 4335 – Issues of Professionalism	
EDUC 4330 – Application of Effective Teaching Practices		EDUC 4690 – Clinical Teaching	
Advanced Elective		Advanced CHEM Elective	
Advanced CHEM Elective			

Total Semester Hours: 13

Total Semester Hours: 12

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>▲</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.

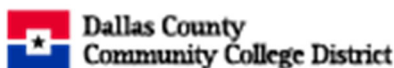
<sup>++</sup> Depending on which university you plan to attend, CHEM 2423 & CHEM 2425 **may not** be required prior to transfer. See your academic advisor for specific details.

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

<sup>†</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.