



STEM

**Associate of Science to
Bachelor of Science in Chemistry
Professional Concentration[†]
Guided Pathway
Effective for the 2019-2020 catalog¹**



First Year – Brookhaven, Cedar Valley, Eastfield, El Centro, Mountain View, North Lake, and Richland College²

FIRST SEMESTER		SECOND SEMESTER	
[Ⓒ] ENGL 1301 – Composition I (010)		[Ⓒ] ENGL 1302 – Composition II (010)	
[Ⓒ] MATH 2413 – Calculus I ^{▲*} (020)		[Ⓒ] HIST 1301 – United States History I (060)	
EDUC 1300 – Learning Framework [@]		MATH 2414 – Calculus II	
[Ⓒ] CHEM 1411 – General Chemistry I (030)		[Ⓒ] CHEM 1412 – General Chemistry II (030)	
Total Semester Hours: 14		Total Semester Hours: 14	

SUMMER SEMESTER	
[Ⓒ] HIST 1302 – United States History II [*] (060) OR [Ⓒ] HIST 2301 – Texas History [*] (060)	
[Ⓒ] 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	
Choose One: [Ⓒ] ENGL 2331 – World Literature [*] (040)		CHEM 2425 – Organic Chemistry II ⁺⁺	
[Ⓒ] PHIL 1301 – Introduction to Philosophy [*] (040)		PHYS 2425 – University Physics I	
[Ⓒ] PHIL 2306 – Introduction to Ethics [*] (040)		Choose One: [Ⓒ] ANTH 2346 – General Anthropology [*] (080)	
[Ⓒ] GOVT 2306 – Texas Government (070)		[Ⓒ] COMM 1307 – Introduction to Mass Communication [*] (080)	
CHEM 2423 – Organic Chemistry I ⁺⁺		[Ⓒ] ECON 2301 – Principles of Macroeconomics [*] (080)	
		[Ⓒ] PSYC 2301 – General Psychology [*] (080)	
		[Ⓒ] SOCI 1301 – Introduction to Sociology [*] (080)	
Choose One: [Ⓒ] ARTS 1301 – Art Appreciation [*] (050)		[Ⓒ] PHED 1164 – Introduction to Physical Fitness and Wellness (090)	
[Ⓒ] DANC 2303 – Dance Appreciation I [*] (050)			
[Ⓒ] DRAM 1310 – Introduction to Theater [*] (050)			
[Ⓒ] MUSI 1306 – Music Appreciation [*] (050)			
[Ⓒ] COMM 2302 – Business and Professional Speaking (SPCH 1321)			
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	
BIOL 1406 – General Biology (BIOL 1306+1106)	BIOL 1407 – General Biology II (BIOL 1307+1107)
General Elective	PHYS 2426 – University Physics II (PHYS 1302+1102, or 1402, or 2326+2126)
Total Semester Hours: 15	

Third Year – Tarleton State University

FIRST SEMESTER		SECOND SEMESTER	
CHEM 3407 – Quantitative Analysis (Fall only)		CHEM 4328 – Inorganic Chemistry (Spring Only)	
CHEM 4374 – Biochemistry I (Fall only)		CHEM 4408 – Instrumental Analysis (Spring only)	
CHEM 4160 – Lab Safety & Ethics		CHEM 4378 – Biochemistry Lab (Spring Only)	
ENGL 3309 – Technical Writing and Document Design		CHEM 3424 – Physical Chemistry II (Spring Only)	
Advanced Elective			
Total Semester Hours: 14		Total Semester Hours: 14	

Fourth Year – Tarleton State University

FIRST SEMESTER		SECOND SEMESTER	
CHEM 3423 – Physical Chemistry I (Fall only)		CHEM 4327 – Qualitative Organic Analysis (Spring Even)	
Advanced CHEM Elective		CHEM 4086 – Chemistry Problems Research	
Advanced CHEM Elective		Advanced Elective	
Total Semester Hours: 10		Total Semester Hours: 9	
Total Degree Hours: 124			

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.

¹ You may use this pathway if you entered one of the seven colleges on or before this date.

² 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.

[@] 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.

[▲] To register for MATH 2413, students must have completed the prerequisite math courses as follows: MATH 1314, MATH 1316, MATH 2412

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

[Ⓒ] This course counts for the Core Curriculum at any public college or university in Texas.

^{*} There are several options to fulfill this requirement. See your academic advisor for a specific list.

⁺⁺ 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.

() Course numbers shown in parentheses are equivalent to these courses at Tarleton State University

[†] Degree availability varies by campus; consult www.tarleton.edu for more information.

Approved: 2019-2020 Guided Pathway