



STEM

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



BHC CVC EFC ECC MVC NLC RLC

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

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

SUMMER SEMESTER	
Choose One: ^C ARTS 1304 – Art History II [*] (050), ^C DRAM 1310 – Introduction to Theater [*] (050), ^C MUSI 1306 – Music Appreciation [*] (050)	
^C HIST 1302 – United States History II [*] (060)	
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	
CHEM 2423 – Organic Chemistry I		CHEM 2425 – Organic Chemistry II	
Choose One: ^C ENGL 2332 – World Literature I [*] (040) ^C PHIL 1301 – Introduction to Philosophy [*] (040) ^C PHIL 2306 – Introduction to Ethics [*] (040)		Choose One: ^C ANTH 2346 – General Anthropology [*] (080) ^C ECON 2301 – Principles of Macroeconomics [*] (080) ^C PSYC 2301 – General Psychology [*] (080) ^C SOCI 1301 – Introduction to Sociology [*] (080)	
BIOL 1406 – Biology for Science Majors I		^C GOVT 2306 – Texas Government (070)	
^C GOVT 2305 – Federal Government (070)		^C SPCH 1311 – Introduction to Speech Communication [*] (090) OR ^C SPCH 1315 – Public Speaking [*] (090)	
^C PHED 1164 – Introduction to Physical Fitness and Wellness (090)			
Total Semester Hours: 15		Total Semester Hours: 13	

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 1407 – General Biology II (BIOL 1307+1107)	BCIS or COSC Elective
PHYS 1401 – College Physics I (PHYS 1301+1101)	PHYS 1402 – College Physics II (PHYS 1302+1102)
Total Semester Hours: 15	

Third Year – Tarleton State University

FIRST SEMESTER		SECOND SEMESTER	
BIOL 3303 - Genetics		CHEM 4160 – Lab Safety & Ethics	
BIOL 3103 – Genetic Techniques		CHEM 4408 – Instrumental Analysis	
CHEM 3407 – Quantitative Analysis (Fall only)		BIOL 3407 - Microbiology	
CHEM 4327 – Quantitative Organic Analysis (Spring only) OR CHEM 4345 – Medicinal Chemistry (Fall only)		Advanced Elective	
ENGL 3309 – Technical Writing and Document Design			
Total Semester Hours: 14		Total Semester Hours: 12	

Fourth Year – Tarleton State University

FIRST SEMESTER		SECOND SEMESTER	
BIOL 3413 - Molecular Biology (Fall only)		BIOL 4378 – Biochemistry Lab (Spring only)	
CHEM 3423 – Physical Chemistry I (Fall only)		CHEM 4375 – Biochemistry II (Spring only)	
CHEM 4374 – Biochemistry I (Fall only)		Advanced Elective	
Total Semester Hours: 11		Total Semester Hours: 9	
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.

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.

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

⁺ You should consider completing PHYS 2426 University Physics II before transferring to a university.

⁺⁺ Choose the appropriate course option based on the university to which you will transfer. See your academic advisor for specific details.

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

[Ⓢ] 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.

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

[†] 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.

¹ Degree availability varies by campus; consult www.tarleton.edu for more information.

Approved: 2019-2020 Guided Pathway