



STEM

**Associate of Science  
To  
Bachelor of Science in Biology  
Molecular 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> CHEM 1411 – General Chemistry <sup>#</sup> (030)		<sup>C</sup> HIST 1301 – United States History I (060)	
<sup>C</sup> BIOL 1406 – Biology for Science Majors I (030)		CHEM 1412 – General Chemistry II	
EDUC 1300 – Learning Framework <sup>@</sup>		BIOL 1407 – Biology for Science Majors II	
Total Semester Hours: 14		Total Semester Hours: 14	

SUMMER SEMESTER	
<sup>C</sup> ENGL 2332 – World Literature I* (040)	
<sup>C</sup> 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	
<sup>C</sup> PHED 1164 – Introduction to Physical Fitness and Wellness (090)		<sup>C</sup> MATH 2412 – Pre-Calculus Math* (020)	
PHYS 1401 – College Physics I		<sup>C</sup> GOVT 2306 – Texas Government (070)	
<sup>C</sup> SPCH 1311 – Introduction to Speech Communication* OR (090)		<b>Choose One:</b> <sup>C</sup> ARTS 1301 – Art Appreciation*, (050)	
<sup>C</sup> SPCH 1315 – Public Speaking* OR (090)		<sup>C</sup> DANC 2303 – Dance Appreciation*, (050)	
<sup>C</sup> SPCH 1321 – Business and Professional Communication* (090)		<sup>C</sup> DRAM 1310 – Introduction to Theater*, (050)	
<sup>C</sup> GOVT 2305 – Federal Government (070)		<sup>C</sup> HUMA 1315 – Fine Arts Appreciation*, (050)	
<sup>C</sup> PSYC 2301 – General Psychology* (080)		<sup>C</sup> MUSI 1306 – Music Appreciation* (050)	
		PHYS 1402 – College Physics II	
Total Semester Hours: 14		Total Semester Hours: 14	

**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**

General Elective	General Elective
CHEM 2423 – Organic Chemistry I (CHEM 2323+2123)	CHEM 2425 – Organic Chemistry II (CHEM 2325+2125)
Total Semester Hours: 14	

**Third Year – Tarleton State University**

FIRST SEMESTER		SECOND SEMESTER	
BIOL 2300 – Cell Biology		BIOL 3407 – Microbiology	
BIOL 3303 – Genetics		BIOL 3353 – Ecology and Evolution	
BIOL 3103 – Genetic Techniques		BIOL 3485 – Immunology	
MATH 3450 – Principles of Bio-Statistics			
ENGL 3309 – Technical Writing and Document Design			
Total Semester Hours: 14		Total Semester Hours: 11	

**Fourth Year – Tarleton State University**

FIRST SEMESTER		SECOND SEMESTER	
BIOL 3413 – Molecular Biology (Fall Only)		BIOL 4375 – Biochemistry II	
BIOL 3395 – Pathogenic Microbiology (Fall Only)		BIOL 4378 – Biochemistry Lab (Spring Only)	
BIOL 4374 – Biochemistry I (Fall Only)		BIOL 3430 – Phycology	
BIOL 4398 – Current Topics in the Life Sciences			
Total Semester Hours: 13		Total Semester Hours: 10	
Total Degree Hours: 124			

**This is not an official degree plan. Check with an advisor; degree plans may change in later catalogs.**

<sup>1</sup> Degree plans may change in later catalogs. 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 DCCCD colleges awarding the degree.

<sup>@</sup> All college students with fewer than 12 semester credit hours of successful college credit (grade of "C" or above) must 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> You should consider completing CHEM 2423 – Organic Chemistry I AND CHEM 2425 – Organic Chemistry II before transferring to a university.

<sup>#</sup> CHEM 1411 has a prerequisite of MATH 1314, or equivalent academic preparation, prior to enrolling in the course.

<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.

*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>()</sup> 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.

Approved: 2019-2020 Guided Pathway



*For questions about the university portion of this pathway,  
contact the Biological Sciences department at 254-968-9159.*