



STEM

**Associate of Science
To
Bachelor of Science in Biology
Aquatic Ecology 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)	
^c CHEM 1411 – General Chemistry [#] (030)		^c HIST 1301 – United States History I (060)	
^c BIOL 1406 – Biology for Science Majors I (030)		CHEM 1412 – General Chemistry II	
EDUC 1300 – Learning Framework [@]		BIOL 1407 – Biology for Science Majors II	
Total Semester Hours: 14		Total Semester Hours: 14	

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

CHEM 2423 – Organic Chemistry I (CHEM 2323+2123)	GEOL 1403 – Physical Geology
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Total Semester Hours: 8

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 4462 – Ichthyology	
MATH 3450 – Principles of Bio-Statistics		BIOL 3449 – Invertebrate Zoology	
ENGL 3309 – Technical Writing and Document Design			
Total Semester Hours: 14		Total Semester Hours: 15	

Fourth Year – Tarleton State University

FIRST SEMESTER		SECOND SEMESTER	
BIOL 4441 – Limnology		EASC 3350 – Environmental Science	
BIOL 3340 – Introduction to Marine Biology		BIOL 4398 – Current Topics in the Life Sciences	
EASC 3340 – Oceanography		BIOL 3430 – Phycology	
BIOL 4401 – Ecology			
Total Semester Hours: 14		Total Semester Hours: 10	

Total Degree Hours: 123

¹ This is not an official degree plan. Check with an advisor; degree plans may change in later catalogs.

¹ 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.
² 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.
[@] 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.
^c 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 CHEM 2423 – Organic Chemistry I AND CHEM 2425 – Organic Chemistry II before transferring to a university.
[#] CHEM 1411 has a prerequisite of MATH 1314, or equivalent academic preparation, prior to enrolling in the course.
^{*} 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.
 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