



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



STEM
● 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 HIST 1301 – United States History I (060)		C HIST 1302 – United States History II* (060) <u>OR</u> C HIST 2301 – Texas History* (060)	
C MATH 2413 – Calculus I+* (020)		MATH 2414 – Calculus II+*	
EDUC 1300 – Learning Framework®		C CHEM 1411 – General Chemistry I+* (030)	
Total Semester Hours: 13		Total Semester Hours: 14	
SUMMER SEMESTER			
Choose One: C ENGL 2332 – World Literature I+* (040), C ENGL 2333 – World Literature II+* (040), C PHIL 1301 – Introduction to Philosophy+* (040) C CHEM 1412 – General Chemistry II+* (030)			
Total Semester Hours: 7			

Second Year – Brookhaven, Cedar Valley, Eastfield, El Centro, Mountain View, North Lake, and Richland College

It's best to apply Tarleton State University a full semester before you plan to transfer.

FIRST SEMESTER		SECOND SEMESTER	
C GOVT 2305 – Federal Government (070)		C GOVT 2306 – Texas Government (070)	
Choose One: C ANTH 2351 – Cultural Anthropology+* (080) C ECON 2301 – Principles of Macroeconomics+* (080) C PSYC 2301 – General Psychology+* (080) C SOCI 1301 – Introduction to Sociology+* (080)		PHYS 2426 – University Physics II	
PHYS 2425 – University Physics I		C SPCH 1311 – Introduction to Speech Communication* (090) <u>OR</u> C SPCH 1315 – Public Speaking* (090)	
MATH 2415 – Calculus III+*		C PHED 1164 – Introduction to Physical Fitness and Wellness (090)	
		Choose One: C ARTS 1301 – Art Appreciation+* (050) C DRAM 1310 – Introduction to Theater+* (050) C MUSI 1306 – Music Appreciation+* (050)	
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.

Third Year – Tarleton State University

These courses may be completed at DCCCD or TSU	
COSC Elective	General Elective
Support Field Elective*	General Elective
Support Field Elective*	

Total Semester Hours: 15

FIRST SEMESTER	SECOND SEMESTER
PHYS 3331 – Mechanics I (Fall Only)	PHYS 3334 – Modern Physics I
PHYS 3332 – Electromagnetic Field Theory (Fall Only)	PHYS 4330 – Mathematical Methods for Physics and Engineering (Spring Only)
MATH 3306 – Differential Equations	PHYS 4340 – Advanced Physics Lab (Spring Only)
MATH 3433 – Calculus III	Advanced Support Field Elective*

Total Semester Hours: 13

Total Semester Hours: 13

Fourth Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
PHYS 4335 – Quantum Physics (Fall Only)	PHYS 4337 – Nuclear Physics (Spring Only)
PHYS 4161 – Physics Research Project (Fall Only)	PHYS 4162 – Physics Research Seminar (Spring Only)
PHYS 3333 – Thermodynamics (Fall Only)	Advanced Physics Elective
Advanced Physics Elective	Support Field Elective*
Support Field Elective*	Advanced Support Field Elective*

Total Semester Hours: 13

Total Semester Hours: 13

Total Degree Hours: 125

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.

³ 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.

® 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.

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

+ Elective courses shown in parentheses are selected according to the intended university to which you will transfer. See your academic advisor for assistance with course selection.

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