

## Associate of Science to

Bachelor of Science in Mathematics Pre-Actuarial Concentration T

## **Guided Pathway** Effective for the 2019-2020 catalog<sup>1</sup>





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)
CHIST 1301 – United States History I (060)	CHIST 1302 – United States History II* (060)
CMATH 2413 – Calculus I <sup>*</sup> (020)	CPHED 1164 – Introduction to Physical Fitness and Wellness (090)
EDUC 1300 – Learning Framework <sup>®</sup>	MATH 2414 – Calculus II
SPCH 1321 – Business & Professional Communication	CPHYS 2425 – University Physics I+ (030)

**Total Semester Hours: 16 Total Semester Hours: 15** 

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.

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	FIRST SEMESTER	SECOND SEMESTER
Choose One:	<sup>c</sup> ENGL 2326 – American Literature* (040)	
	cENGL 2331 – World Literature* (040)	ACCT 2301 – Principles of Accounting I
	<sup>c</sup> PHIL 1301 – Introduction to Philosophy* (040)	
<sup>C</sup> GOVT 2305 –	Federal Government (070)	ECON 2302 – Principles of Microeconomics
MATH 2415 – C	Calculus III	<sup>c</sup> GOVT 2306 – Texas Government (070)
Choose One:	CECON 2301 – Principles of Macroeconomics* (080)	Choose One: CARTS 1301 – Art Appreciation* (050)
	<sup>c</sup> PSYC 2301 – General Psychology* (080)	CDRAM 1310 – Introduction to Theater* (050)
	<sup>c</sup> SOCI 1301 – Introduction to Sociology* (080)	<sup>c</sup> MUSI 1306 – Music Appreciation* (050)
Choose One:	<sup>c</sup> PHYS 2426 – University Physics II+ (030)	ACCT 2302 – Principles of Accounting II – Managerial
	CHEM 1412 – General Chemistry II+ (030)	
	<sup>c</sup> BIOL 1407 – Biology for Science Majors II+ (030)	

**Total Semester Hours: 17 Total Semester Hours: 15** 

## Associate of Science (63 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

FIRST SEMESTER	SECOND SEMESTER
MATH 3311 – Probability and Statistics (Fall Only)	MATH 3320 – Foundations of Mathematics (Spring Only)
COSC 3344 – Computer Applications in Analysis (Fall Only)	MATH 4311 – Probability and Statistics II (Spring Only)
MATH 3332 – Linear Algebra (Fall Only)	MATH 2332 – Applied Matrix Algebra (Spring Only)
MATH 3301 – Number Theory (Spring Only)	MATH 3301 – Number Theory (Spring Only)
MATH 3360 – Numerical Analysis (Fall Even Years)	MATH 3360 – Numerical Analysis (Fall Even Years)
MATH 4306 – Partial Differential Equations (Spring Even Years)	MATH 4306 – Partial Differential Equations (Spring Even Years)
MATH 4320 – Mathematical Modeling (Fall Odd Years)	MATH 4320 – Mathematical Modeling (Fall Odd Years)
MATH 4088 – Undergraduate Research Project	MATH 4088 – Undergraduate Research Project
MATH 4390 – Math Topics (Spring Odd Years)	MATH 4390 – Math Topics (Spring Odd Years)

Total Semester Hours: 12 Total Semester Hours: 12

SUMMER	
MATH 3433 – Calculus III	MATH 3306 – Differential Equations
COSC 1310 – Procedural Programming	FINC 3301 – Principles of Financial Management

Total Semester Hours: 13

Fourth Year - Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
FINC 4304 – Principles of Investments I (Fall Only)	ECON 4311 – Econometrics and Forecasting (Spring Only)
ECON 3301 – Intermediate Macroeconomics (Fall Only)	FINC 4308 – Principles of Insurance and Risk Management (Spring Only)
MATH 4309 - Advanced Analysis (Fall Only)	MATH 4332 – Abstract Algebra (Spring Only)
MATH 3301 – Number Theory (Spring Only)	ECON 3302 – Intermediate Microeconomics (Spring Only)
MATH 3360 – Numerical Analysis (Fall Even Years)	
MATH 4306 – Partial Differential Equations (Spring Even Years)	
MATH 4320 – Mathematical Modeling (Fall Odd Years)	
MATH 4088 – Undergraduate Research Project	
MATH 4390 – Math Topics (Spring Odd Years)	
ENGL 3309 – Technical Writing and Design	

Total Semester Hours: 15 **TOTAL: 127**  Total Semester Hours: 12

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.

(a) 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.

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

4 Choose the appropriate Science, Math, and Computer Science course based on the university to which you will transfer. See your academic advisor for details.

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

7 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.

<sup>Y</sup> Degree availability varies by campus; consult <u>www.tarleton.edu</u> for more information. Approved: 2019-2020 Guided Pathway

