



**Associate of Science to
Bachelor of Science in Mathematics
General without Certification Concentration^T
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 HIST 1301 – United States History I (060)		C HIST 1302 – United States History II* (060)	
C MATH 2413 – Calculus I ^{A*} (020)		C PHED 1164 – Introduction to Physical Fitness and Wellness (090)	
EDUC 1300 – Learning Framework [Ⓢ]		MATH 2414 – Calculus II	
C SPCH 1311 – Introduction to Speech Communication* (090) OR C SPCH 1315 – Public Speaking* (090)		Choose One: C PHYS 2425 – University Physics I+ (030) C CHEM 1411 – General Chemistry I+ (030) C BIOL 1406 – Biology for Science Majors 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.

FIRST SEMESTER		SECOND SEMESTER	
C GOVT 2305 – Federal Government (070)		MATH 2318 or 2418 – Linear Algebra ⁺	
Choose One: C ENGL 2326 – American Literature* (040) C ENGL 2331 – World Literature* (040) C PHIL 1301 – Introduction to Philosophy* (040)		Choose One: COSC 1436 – Programming Fundamentals I+ COSC 1437 – Programming Fundamentals II+ COSC 1301 – Introduction to Computing ⁺	
MATH 2415 – Calculus III		C GOVT 2306 – Texas Government (070)	
Choose One: C ECON 2301 – Principles of Macroeconomics* (080) C PSYC 2301 – General Psychology* (080) C SOCI 1301 – Introduction to Sociology* (080)		Choose One: C ARTS 1301 – Art Appreciation* (050) C DRAM 1310 – Introduction to Theater* (050) C MUSI 1306 – Music Appreciation* (050)	
Choose One: C PHYS 2426 – University Physics II+ (030) C CHEM 1412 – General Chemistry II+ (030) C BIOL 1407 – Biology for Science Majors II+ (030)		MATH 2320 or 2420 – Differential Equations ⁺ OR MATH 2305 – Discrete Mathematics ⁺	
Total Semester Hours: 17		Total Semester Hours: 15-16	

Associate of Science (60-61 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 taken at DCCCD or TSU	
Support Field Elective Course	Support Field Elective Course

Total Semester Hours: 6

Third Year – Tarleton State University

FIRST SEMESTER		SECOND SEMESTER	
COSC 1310 – Procedural Programming		MATH 2332 – Applied Matrix Algebra (Spring)	
MATH 3311 – Probability and Statistics (Fall Only)		MATH 3320 – Foundations of Mathematics (Spring)	
COSC 3344 – Computer Applications in Analysis (Fall Only)		MATH 4311 – Probability and Statistics II (Spring)	
MATH 3332 – Linear Algebra (Fall Only)		MATH 3433 – Calculus III	
MATH 3301 – Number Theory (Spring Only) OR MATH 3360 – Numerical Analysis (Fall Even Years) OR MATH 4306 – Partial Differential Equations (Spring Even Years) OR MATH 4320 – Mathematical Modeling (Fall Odd Years) OR MATH 4088 – Undergraduate Research Project OR MATH 4390 – Math Topics (Spring Odd Years)		MATH 3301 – Number Theory (Spring Only) OR MATH 3360 – Numerical Analysis (Fall Even Years) OR MATH 4306 – Partial Differential Equations (Spring Even Years) OR MATH 4320 – Mathematical Modeling (Fall Odd Years) OR MATH 4088 – Undergraduate Research Project OR MATH 4390 – Math Topics (Spring Odd Years)	
Total Semester Hours: 15		Total Semester Hours: 15	

Fourth Year – Tarleton State University

FIRST SEMESTER		SECOND SEMESTER	
MATH 4309 – Advanced Analysis (Fall Only)		MATH 4332 – Abstract Algebra (Spring)	
*Advanced Support Field Elective		*Advanced Support Field Elective	
*Advanced Support Field Elective		*Advanced Support Field Elective	
MATH 3306 – Differential Equations		MATH 3301 – Number Theory (Spring Only) OR MATH 3360 – Numerical Analysis (Fall Even Years) OR MATH 4306 – Partial Differential Equations (Spring Even Years) OR MATH 4320 – Mathematical Modeling (Fall Odd Years) OR MATH 4088 – Undergraduate Research Project OR MATH 4390 – Math Topics (Spring Odd Years)	
Total Semester Hours: 12		Total Semester Hours: 12	

TOTAL: 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.

[Ⓢ] 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.

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

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

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

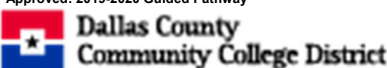
^{*} There are several options to fulfill this requirement. See your academic advisor for a specific list.

^{OR} 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.

(J) Course numbers shown in parentheses are equivalent to these courses at Tarleton State University.

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

Approved: 2019-2020 Guided Pathway



For questions about the University portion of this guided pathway,
contact the Math department at 254-968-9168.