



AS Mathematics to Bachelor of Science in Mathematics
 Technical Writing Concentration^T
Guided Pathway
 Effective for the 2019-2020 Catalog



First Year – Central Texas College

FALL SEMESTER	SPRING SEMESTER	SPRING SEMESTER
^c HIST 1301 United States History I	^c ENGL 1301 Composition I	MATH 2413 Calculus I
^c GOVT 2306 Texas Government	^c HIST 1302 United States History II	
^{c*} Language/Philosophy/Culture Studies	^c PHYS 2425 - University Physics I (PHYS 2325+2125)	
^c MATH 1342 or 1414	MATH 2412 Pre-Calculus Math	
Total Semester Hours: 12-13	Total Semester Hours: 14	Total Semester Hours: 4

Second Year – Central Texas College

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

FIRST SEMESTER	SECOND SEMESTER
^c SPCH 1315, 1318 or 1321	MATH 2415 Calculus III
^c * Creative Arts Selection	MATH 2318 or 2320
^c GOVT 2305 Federal Government	^c * Component Area Option
^c * Social/Behavioral Science Selection	^c BIOL 1406 – General Biology I (BIOL 1306+1106)
MATH 2414 Calculus II	
Total Semester Hours: 16	Total Semester Hours: 14

AS: Mathematics

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 CTC (if offered) or TSU

^c ENGL 1302 – Composition II	^c CHEM 1411 – College Chemistry I (CHEM 1311+1111)
[*] Life and Physical Science 4 Credit Elective	
Total Semester Hours: 11	

Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
COSC 1310 – Procedural Programming	MATH 3306 – Differential Equations
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 3433 – Calculus III
MATH 3301 – Number Theory (Spring Only) <u>OR</u>	
MATH 3360 – Numerical Analysis (Fall Even Years) <u>OR</u>	
MATH 4306 – Partial Differential Equations (Spring Even Years) <u>OR</u> MATH	
4320 – Mathematical Modeling (Fall Odd Years) <u>OR</u>	
MATH 4088 – Undergraduate Research Project <u>OR</u>	
MATH 4390 – Math Topics (Spring Odd Years)	
Total Semester Hours: 15	Total Semester Hours: 13

SUMMER

ENGL 3309 – Technical Writing and Design	Advanced ENGL Elective
Total Semester Hours: 6	

Fourth Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
MATH 4309 – Advanced Analysis (Fall Only)	ENGL 3310 – Technical Writing and Editing
MATH 2332 – Applied Matrix Algebra (Spring Only)	Advanced ENGL Elective
ENGL 3312 – Graphics and Technical Writing	MATH 4332 – Abstract Algebra (Spring Only)
MATH 3301 – Number Theory (Spring Only) <u>OR</u>	MATH 3301 – Number Theory (Spring Only) <u>OR</u>
MATH 3360 – Numerical Analysis (Fall Even Years) <u>OR</u>	MATH 3360 – Numerical Analysis (Fall Even Years) <u>OR</u>
MATH 4306 – Partial Differential Equations (Spring Even Years) <u>OR</u>	MATH 4306 – Partial Differential Equations (Spring Even Years) <u>OR</u>
MATH 4320 – Mathematical Modeling (Fall Odd Years) <u>OR</u>	MATH 4320 – Mathematical Modeling (Fall Odd Years) <u>OR</u>
MATH 4088 – Undergraduate Research Project <u>OR</u>	MATH 4088 – Undergraduate Research Project <u>OR</u>
MATH 4390 – Math Topics (Spring Odd Years)	MATH 4390 – Math Topics (Spring Odd Years)
Total Semester Hours: 12	Total Semester Hours: 12
Total Degree Hours: 129-130	

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.

* You may take a different course to meet this requirement. A specific list is available from your advisor.

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

⁽ⁱ⁾ 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.

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