



AS Mathematics Field of Study
To Bachelor of Science in Mathematics
With a Data Analysis Concentration[†]
Guided Pathway
Effective for the 2021-2022 Catalog
First Year – Collin College



FIRST SEMESTER	SECOND SEMESTER
^C MATH 2412 - Pre-Calculus (TSU requires MATH 2413 Calculus I)	^C ENGL 1302 - Composition II (or ENGL 2311) (TSU requires ENGL 1302)
^C ENGL 1301 - Composition I	^C MATH 2414 - Calculus II
^C Speech (TSU requires SPCH 1321/COMM 2302 Business and Professional Speaking)	^C PHYS 2425 - University Physics I
^C History (see list below) - 3 hours	MATH 2305 - Discrete Mathematics
COSC 1336 - Programming Fundamentals I	
Total Semester Hours: 16	Total Semester Hours: 14

Second Year – Collin 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	^C GOVT 2306 - Texas Government
MATH 2318 - Linear Algebra	^C Creative Arts (see list below) - 3 hours
^C Social/Behavioral Science (see list below) -3 hours	MATH 2320 - Differential Equations
MATH 2415 - Calculus III	^C Lang, Phil, & Culture (see list below) - 3 hours
^C History (see list below) - 3 hours	^C Life/Physical Science (see list below) - 4 hours
Total Semester Hours: 16	Total Semester Hours: 16

AS: Mathematics Field of Study

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 CC (if offered) or TSU	
COSC 2341 (2336/2436) Data Structures	ENGR 2303 Engineering Economy
^C Any Core Course (1 credit min)	
	Total Semester Hours: 7

Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Total Semester Hours: 15	Total Semester Hours: 15

Fourth Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Total Semester Hours: 12	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.

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

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

() 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. [Collin Options](#)

Life & Physical Sciences – choose one from: BIOL 1406, 1407, 1415, 2401, 2402, 2406, 2416, 2421, CHEM 1411, 1412, 2423, 2425, ENVR 1401, 1402, GEOL 1403, 1404, PHYS 1401, 1402, 2426.

Speech – choose one from: SPCH 1311, 1315, or 1321

History – choose two from: HIST 1301, 1302, 2301

Language, Philosophy, & Culture – choose one from: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, HIST 2311, 2312, 2321, 2322, HUMA 1301, PHIL 1301, 1304, 2303, 2306, 2307, 2321

Creative Arts – choose one from: ARTS 1301, 1303, 1304, 1313, DANC 2303, DRAM 1310, 2361, 2362, 2366, MUSI 1306, 1307, 1310

Social and Behavioral Sciences – choose one from: ANTH 2302, 2346, 2351, ECON 1301, 2301, 2302, PSYC 2301, SOCI 1301, 1306

Elective – choose one course from any discipline (MATH 2305 or MATH 2373 highly recommended).