



Associate of Science –Mathematics to  
Bachelor of Science in Mathematics  
General without Certification Concentration †



Guided Pathway

Effective for the 2019-2020 Catalog

First Year – Galveston College

FIRST SEMESTER	SECOND SEMESTER
<sup>C</sup> ENGL 1301 Composition I	<sup>C</sup> ENGL 1302 Composition II
<sup>C</sup> HIST 1301 US History I	<sup>C</sup> HIST 1302 US History II
<sup>C</sup> MATH 2312 Pre-Calculus	<sup>C</sup> MATH 2413 Calculus I
<sup>C</sup> Life & Physical Science Elective	MATH 2305 Discrete Mathematics
<sup>C</sup> Creative Arts Elective	<sup>C</sup> PHYS 2425 - University Physics I (PHYS 2325+2125)
Total Semester Hours: 15	Total Semester Hours: 17

Second Year – Galveston College

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

FIRST SEMESTER	SECOND SEMESTER
<sup>C</sup> GOVT 2305 Federal Government	<sup>C</sup> GOVT 2306 Texas Government
<sup>C</sup> Social & Behavioral Science Elective	MATH 2415 Calculus III
<sup>C</sup> MATH 2414 Calculus II	MATH 2320 Differential Equations
MATH 2318 Linear Algebra	<sup>C</sup> Language, Philosophy & Culture Elective
	<sup>*C</sup> Communication Core Elective
Total Semester Hours: 13	Total Semester Hours: 16

**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 taken at Galveston College or TSU**

*Support Field Elective	*Support Field Elective
*Support Field Elective	*Support Field Elective
Total Semester Hours: 12	

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
<b>COSC 1310</b> – Procedural Programming	<b>MATH 2332</b> – Applied Matrix Algebra (Spring)
<b>MATH 3311</b> – Probability and Statistics (Fall Only)	<b>MATH 3320</b> – Foundations of Mathematics (Spring)
<b>COSC 3344</b> – Computer Applications in Analysis (Fall Only)	<b>MATH 4311</b> – Probability and Statistics II (Spring)
<b>MATH 3332</b> – Linear Algebra (Fall Only)	<b>MATH 3433</b> – Calculus III
<sup>X</sup> <b>Advanced MATH Elective</b>	<sup>X</sup> <b>Advanced MATH Elective</b>
Total Semester Hours: 15	Total Semester Hours: 16

**Fourth Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
<b>MATH 4309</b> – Advanced Analysis (Fall Only)	<b>MATH 4332</b> – Abstract Algebra (Spring)
*Advanced Support Field Elective	*Advanced Support Field Elective
*Advanced Support Field Elective	*Advanced Support Field Elective
<b>MATH 3306</b> – Differential Equations	<sup>X</sup> <b>Advanced MATH Elective</b>
Total Semester Hours: 12	Total Semester Hours: 12

TOTAL:128

**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.

<sup>C</sup> 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.

\* Support Field Electives and Advanced Support Field Electives are to be chosen from an academic area in which Math is applicable and must be developed in consultation with a Math undergraduate advisor.

† Degree availability varies by campus; consult [www.tarleton.edu](http://www.tarleton.edu) for more information.

<sup>X</sup> Choose from the following:

**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)

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