



Associate of Science in Mathematics to  
Bachelor of Science in Mathematics  
General without Certification Concentration <sup>T</sup>



**Guided Pathway**

Effective for the 2019-2020 Catalog

**First Year – Paris Junior College**

FIRST SEMESTER	SECOND SEMESTER
<sup>C</sup> COMM 1307 – Intro. to Mass Communications (040)	<sup>C</sup> ECON 2301 - Principles of Macroeconomics (080)
<sup>C</sup> COSC 1301 – Introduction to Computing	<sup>C</sup> ENGL 1302 – Composition II (010)
<sup>C</sup> EDUC/PSYC 1100 – Learning Framework	<sup>C</sup> HIST 1302 – United States History II (060)
<sup>C</sup> ENGL 1301 – Composition I (010)	<sup>C</sup> MATH 2413 – Calculus I (090)
<sup>C</sup> HIST 1301 – United States History I (060)	<sup>C</sup> MUSI 1306 – Music Appreciation (050)
<sup>C</sup> MATH 2312 – Pre-Calculus Math (020)	

Total Semester Hours: 16

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**Second Year – Paris Junior 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> COSC 1336 – Programming Fundamentals I	<sup>C</sup> COSC1337 – Programming Fundamentals II
<sup>C</sup> GOVT 2305 – Federal Government (070)	<sup>C</sup> GOVT 2306 – Texas Government (070)
<sup>C</sup> MATH 2414 – Calculus II (090)	<sup>C</sup> MATH 2415 – Calculus III
<sup>C</sup> PHYS 2425 – University Physics I (030)	<sup>C</sup> PHYS 2426 – University Physics II (030)

Total Semester Hours: 14

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**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 Paris Junior College or TSU**

<sup>C</sup> Communication Core Elective	*Support Field Elective
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Total Semester Hours: 6

**Third Year – Tarleton State University**

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

Total Semester Hours: 15

Total Semester Hours: 16

**Fourth Year – Tarleton State University**

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

Total Semester Hours: 12

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TOTAL: 121

**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.

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

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