

# Bachelor of Science in Mathematics

TVCC (Trinity Valley Community College) to UT Tyler

2026-2027 Catalog

## Freshman Year

### Fall Semester (TVCC)

- ENGL 1301 - Composition I (3 Credit Hours)
- HIST 1301 - US History I (3 Credit Hours)
- EDUC/PSYC 1300 - Learning Framework (3 Credit Hours)
- MATH 2413 - Calculus I (4 Credit Hours)
- Suggested Pathway Elective (3 Credit Hours)

Semester Total: 16 Credit Hours

### Spring Semester (TVCC)

- ENGL 1302 - Composition II (3 Credit Hours)
- HIST 1302 - US History II (3 Credit Hours)
- MATH 2414 - Calculus II (4 Credit Hours)
- Creative Arts Core Course (3 Credit Hours)
- Suggested Pathway Elective (3 Credit Hours)

Semester Total: 16 Credit Hours

## Sophomore Year

### Fall Semester (TVCC)

- GOVT 2305 - Federal Government (3 Credit Hours)
- PHYS 2425 - College Physics I (4 Credit Hours)
- MATH 2415 - Calculus III (4 Credit Hours)
- Language, Philosophy, and Culture Core Course (3 Credit Hours)

Semester Total: 14 Credit Hours

### Spring Semester (TVCC and UT Tyler)

- GOVT 2306 - Texas Government (3 Credit Hours)
- PHYS 2426 - College Physics II (4 Credit Hours)

- Social and Behavioral Sciences Core Course (3 Credit Hours)
- MATH 3305 - Ordinary Differential Equations – **co-enrollment at UT Tyler** (3 Credit Hours)

Semester Total: 13 Credit Hours

## Junior Year

### Fall Semester (UT Tyler)

- MATH 2415 - Multivariate Calculus (4 Credit Hours)
- MATH 3425 - Foundations of Mathematics (4 Credit Hours)
- MATH 3315 - Linear Algebra and Matrix Theory (3 Credit Hours)
- Minor or Elective Course (3 Credit Hours)

Semester Total: 15 Credit Hours

### Spring Semester (UT Tyler)

- MATH 3336 - Abstract Algebra I (3 Credit Hours)
- MATH 3305 - Ordinary Differential Equations (3 Credit Hours)
- MATH 3380 - Algorithms in Applied Math - course offered in spring semesters only (3 Credit Hours)
- MATH 3365 - Geometric Systems (3 Credit Hours)
- Minor or Elective Course (3 Credit Hours)

Semester Total: 15 Credit Hours

## Senior Year

### Fall Semester (UT Tyler)

- MATH 3345 - Real Analysis I (3 Credit Hours)
- MATH 4350 - Theory of Probability (3 Credit Hours)
- NURS 4160 - Senior Seminar I (1 Credit Hour)
- Minor or Elective Course (3 Credit Hours)
- Upper-Level Math Elective (3 Credit Hours)
- Upper-Level Math Elective (3 Credit Hours)

Semester Total: 16 Credit Hours

### Spring Semester (UT Tyler)

- MATH 3373 - Advanced Ordinary Differential Equations (3 Credit Hours) OR

- MATH 4373 - Partial Differential Equations (3 Credit Hours)
- MATH 4161 - Senior Seminar II (1 Credit Hour)
- Upper-Level Math Elective (3 Credit Hours)
- Minor or Elective Course (3 Credit Hours)
- Minor or Elective Course (3 Credit Hours)
- Minor or Elective Course (3 Credit Hours)

Semester Total: 16 Credit Hours

Total Credit Hours at Trinity Valley Community College: 59

Total Credit Hours at UT Tyler: 61

Total Credit Hours: 120