Mathematics BS

College of Arts & Sciences - Mathematics

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All undergraduate degree programs at Tennessee Tech require at least one course in mathematics and many require several courses. The Department of Mathematics provides a variety of general education courses, introductory and advanced undergraduate courses in support of STEM majors, and graduate-level courses for the MS in mathematics and other graduate programs.

As a central part of a STEM-infused comprehensive institution, the Department of Mathematics strives to create successful learners of the subject of mathematics in the university community and in the community where we live. Learning opportunities are provided to students of all disciplines to advance their understanding of mathematical concepts and their effective use of analytic practices and critical thinking as useful in their studies and everyday life. The departmental faculty conduct research in mathematics and as part of interdisciplinary teams and provide service to the department, college, University, and mathematical community.

The mission of the TTU Department of Mathematics is to promote the learning of mathematics through effective teaching, research, and public service. Such learning opportunities are provided to students of all disciplines in support of the mission of the University.

PG 1:   The Mathematics program will grow and continue to recruit and retain a strong number of students.

SLO 2: All students graduating from the University will be "mathematically literate" and able to apply their knowledge from the mathematics courses in their curricula.

A departmentally developed curriculum map can be found in Appendix 1 that shows the connections between courses and student learning outcomes.

PG 1: Recruit and retain a strong number of students

1. Count Mathematics graduates in the previous July 1- June 30 time period: Each May the number of graduates earning the BS in Mathematics in the previous year is determined and trends are tracked using a 5-year average of the number of graduates.

   Threshold of Acceptability: 15 graduates a year

PG 2: Increase the use of technology

The table below displays the average scores of TTU students who took the Major Field Test in Mathematics in recent academic years.

Pass Rate of TTU Students on Praxis II and NES Math Content Knowledge Test

Academic Year	2017-18	2018-19	2019-20	2020-21	2021-22 (Math)	2021-22 (Math MG)
Number of Test Takers	1	3	10	10	12	12

a) Students will demonstrate algebraic,