MATHEMATICS, B.A.

The program outline and graduation requirements are listed below. In addition, free electives are selected to reach 120 credits overall required for graduation.

The department website provides an overview of the program, admission requirements (when applicable), faculty biographies, learning outcomes, and careers: https://www.southernct.edu/academics/mathematics/programs

GENERAL EDUCATION REQUIREMENTS

All bachelor’s degree programs include liberal education (LEP) and writing (W) course requirements. To review more detailed information regarding these requirements, please visit Degree Requirements >>General Education (LEP) Requirements. Courses in the major and/or cognate may also be used to satisfy LEP requirements where noted below (*).

MAJOR REQUIREMENTS (41 Credits)

In those mathematics courses which the student applies toward the major in mathematics, he/she must have a GPA of 2.0 and, at most, one grade below C-.

MAT 150 - Calculus I (‘C-’ or better) (T1QR)*
MAT 151 - Calculus II (‘C-’ or better)
MAT 221 - Intermediate Applied Statistics
MAT 250 - Foundations of Mathematics: An Introduction
MAT 252 - Calculus III (‘C-’ or better)
MAT 372 - Linear Algebra (‘C-’ or better)
MAT 375 - Abstract Algebra I
MAT 450 - Analysis
MAT 488 - Seminar in Mathematical Modeling or
MAT 498 - Seminar in Mathematics

Select, with approval of a departmental advisor, three courses from:
MAT 245 - Differential Equations
MAT 300 - History of Mathematics
MAT 320 - Probability
MAT 321 - Mathematical Statistics
MAT 322 - Numerical Analysis I
MAT 325 - Design of Experiments
MAT 326 - Regression Analysis
MAT 328 - Time Series Analysis
MAT 329 - Bayesian Analysis and Decision Making
MAT 360 - Foundations of Geometry
MAT 370 - Number Theory
MAT 376 - Abstract Algebra II
MAT 378 - Discrete Mathematics
MAT 398 - Special Topics in Mathematics
MAT 405 - Elementary Mathematics from an Advanced Standpoint
MAT 480 - Topology
MAT 488 - Seminar in Mathematical Modeling
MAT 498 - Seminar in Mathematics

COGNATE REQUIREMENTS (3 Credits)

Select one:
CSC 152 - Computer Programming I
DSC 101 - Data Science II