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. Detailed information on these requirements is published in this section of the catalog: https://catalog.southernct.edu/undergraduate/general-information/lep.html.

Writing courses are not additional course requirements, course sections that meet this requirement are designated with a ‘W’ on the class schedule. 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
**COGNATE REQUIREMENTS (3 Credits)**

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