

## Content Area Specializations (36-41 hours) – Grade of C or better required

**Must be in addition to courses taken to meet Carolina Core Plus other Program Requirements Section**  
Students must choose two different content areas of specialization, each including 18-21 hours of study. Specialized content areas are: English, social studies, mathematics, and science.

### **Mathematics Specialization (18-20 hours)** *(Note: MATH 122 or 141 is a prerequisite for MATH 401, 602, and 603)*

- EDTE 500 Math Knowledge for Teaching I or MATH 603 Inquiry Approach to Algebra or MATH 142 Calculus II (3-4)
- EDTE 501 Math Knowledge for Teaching II or MATH 602 An Inductive Approach to Geometry or MATH 531 Foundations of Geometry (3)
- STAT 201 Elementary Statistics (if not used for General Education) (3)
- MATH 401 Conceptual History of Mathematics or MATH 241 Vector Calculus (3-4)
- Two chosen from among the following (three courses if STAT 201 was used for meeting the General Education requirement) (6-9):
  - MATH 141 (4) (if not used for general education)
  - MATH 142 (4) (if not used above)
  - MATH 241 (3) (if not used above)
  - MATH 170 Finite Mathematics, (3) or MATH 174 Discrete Mathematics for Computer Science, (3) but not both
  - MATH 511 Probability (3)
  - MATH 544 Linear Algebra (3)
  - MATH 546 Abstract Algebra (3)
  - MATH 574 Discrete Mathematics I (3)
  - MATH 580 Elementary Number Theory (3)
  - STAT 506 Introduction to Experimental Design (3)
  - STAT 515 Statistical Methods I (3)
  - STAT 516 Statistical Methods II (3) (if STAT 506 was not taken)