### General Studies Requirements (56-60 sh)

**FIRST-YEAR CORE:**

- **GST 110 - Global Experience**  
  (4 s.h.)

- **ENG 110 - Writing: Argument & Inquiry**  
  (4 s.h.)

- **MTH 110 or 151 or 220**  
  (4 s.h.)

**Experiential Learning Requirement (ELR – 2 units required):**  
Included in experiential learning are study abroad, research, service-learning, leadership, internships, (including co-ops, teaching, and practicum), or other courses or experiences with ELR designation.

**Foreign Language Requirement:**

Students must meet one of the following: (a) complete a language course numbered 122 or higher at Elon, or receive transfer or study abroad credit for the same; (b) place into a language course numbered 200 or above upon arriving at Elon, using a department of foreign languages approved placement instrument; (c) score a 4 or 5 on an AP language exam or similar exam. Each student must take the language placement test by October 1 of his or her first full year at Elon. Students are allowed two tries; the higher score is counted. That score stands and may not be repeated by later testing.

**STUDIES IN THE ARTS AND SCIENCES:**

[Transfer students with at least 18 s.h. of transfer credit must complete 32 hours total in Studies in the Arts & Sciences, but may have as few as 7 hours in one or more of the four Studies in the Arts & Sciences areas.]

**Expression**  
(8 s.h.)

-Eight hours chosen from at least two of the following:  
literature (in English or foreign languages), philosophy, & fine arts  
(art, art history, dance, fine arts, music, music theatre, & theatre).  
At least one course must be literature.

**Civilization**  
(8 s.h.)

-Eight hours chosen from at least two of the following:  
history, foreign languages, and religious studies.

**Society**  
(8 s.h.)

-Eight hours chosen from at least two of the following:  
economics, geography, human service studies, political science, psychology, & sociology/anthropology.

**Science/Analysis**  
-Lab: (s.h.)

-Eight hours chosen from one or more of the following:  
mathematics/statistics, science, computer science and information science. One course must be a physical or biological laboratory science.

**ADVANCED STUDIES** (Must be outside major.)

(8 s.h.)

-Eight hours of 300-400 level coursework outside the major and chosen from areas under Studies in the Arts and Sciences.

**GST Interdisciplinary Capstone Seminar**  
(4 s.h.)

[300-400 level GST course; requires junior/senior status.]

### Major Requirements

A minimum of 56 s.h. in the following courses is required.

- **MTH 151**  
  (4) - Calculus I

- **MTH 241**  
  (4) - Discrete Structures

- **MTH 243**  
  (4) - Applied Mathematical Modeling

- **MTH 251**  
  (4) - Calculus II

- **MTH 252**  
  (4) - Multivariable Calculus & Analytic Geometry

- **MTH 359**  
  (4) - Differential Equations

- **MTH 445**  
  (4) - Numerical Analysis

- **MTH 481**  
  (4) - Probability and Statistics

- **MTH 489**  
  (4) - Applied Matrix Theory

- **MTH 329**  
  (4) - Statistics in Application

- **MTH 460/461**  
  (4) - Seminar I/II

Two 300/400 MTH classes (excluding MTH 308 and 309), or a sequence of two courses (8 sh) from an allied field approved by the Mathematics Department

- **CSC 130**  
  (4) - Computer Science I

- One CSC course (4) numbered 200 or above

Choose from the following:

- Related experiential/capstone experience approved by the department (4 sh). Approved options are:
  - **MTH/STS 460/461**  
    (4) - Seminar I/II
  - **MTH 481**  
    (1-4) - Internship in Mathematics

- **MTH 499**  
  (1-4) - Independent Research

- **Major Comprehensive Evaluation**

All graduating mathematics majors are required to complete a senior portfolio of their work and exit interview based on portfolio materials. This portfolio will include a compilation of their work across their four years of mathematical study at Elon; therefore, students should be mindful of this requirement as they complete work for all their courses and be sure to retain electronic copies of work that they may want to include in their portfolio in their senior year.

- **Major Total (s.h.)**

*Required in major; may count in General Studies.*