General Studies Requirements (58-62 sh)

FIRST-YEAR CORE:

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

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

**MTH 112 or 121 or 212**
(4 s.h.)

**HED 111 - Contemporary Wellness**
(2 s.h.)

Experiential Learning Requirement (ELR): (One Unit)

May be met by any one of the following: internship, practicum, co-op, study abroad, student teaching, approved field-based course or documented service, leadership, or individualized learning experience.

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**
(8 s.h.)

[Eight hours chosen from one or more of the following: mathematics, science, and computer science (CSC designation). At least 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 field and chosen from areas under Studies in the Arts and Sciences.]

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

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

*Required in major; may count in General Studies.

Major Requirements

A minimum of 38-40 s.h. in the following courses is required.

- **MTH 121 (4) - Calculus I**
- **MTH 221 (4) - Calculus II**
- **MTH 321 (4) - Multivariable Calculus & Analytic Geometry**

Complete one of the following concentrations:

APPLIED MATHEMATICS (26-28 sh)

- **MTH 206 (4) - Discrete Structures**
- **MTH 306 (4) - Applied Matrix Theory**

Choose one from the following:

- **MTH 212 (4) - Statistics in Application**
- **MTH 265 (4) - Applied Mathematical Modeling**
- **MTH/STS 341 (4) - Probability and Statistics**
- **MTH 421 (4) - Differential Equations**
- **MTH 300 / 400 - level course (4)**
- **OR-**
- **Course from an allied field approved by the Mathematics Dept. (4)**
- **CSC 130 (4) - Computer Science I**

Choose from the following: A related experiential/capstone experience approved by the department (2-4 sh). Approved options are:

- **MTH/STS 460 (2) - Seminar I**
- **MTH 481 (2-4) Internship in Mathematics**
- **MTH 499 (2-4) Independent Research**

PURE MATHEMATICS (26-28 sh)

- **MTH 231 (4) - Mathematical Reasoning**
- **MTH 311 (4) - Linear Algebra**

Math electives to total 12 sh (May include one departmentally approved course from an allied field. At least 4 sh must be 400-level MTH course)

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A related course from outside the mathematics department and approved by the mathematics department (such as: CSC 130 Computer Science I or PHY 201 General Physics I)

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Choose from the following: A related experiential/capstone experience approved by the department (2-4 sh). Approved options are:

- **MTH/STS 460 (2) - Seminar I**
- **MTH 481 (2-4) Internship in Mathematics**
- **MTH 499 (2-4) Independent Research**
- **Major Comprehensive Evaluation**
- **Major Total (s.h.)**