Elon Core Curriculum (56-60 sh)

FIRST-YEAR FOUNDATIONS:
COR 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

World 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 world languages approved placement instrument; (c) score a 4 or 5 on an AP language exam or languages approved placement. 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. Consideration for Phi Beta Kappa membership requires completion of one intermediate world language course, placement beyond that level or equivalent proficiency.

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.)

Civilization (8 s.h.)

Society (8 s.h.)

Science/Analysis Lab: * (8 s.h.)*

ADVANCED STUDIES (Must be outside major.)

COR Interdisciplinary Capstone Seminar (4 s.h.)

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 220/STS 212 (4) - Statistics in Application -OR-
_____ MTH 329/STS 341 (4) - Probability and Statistics
_____ MTH 349 (4) - Applied Matrix Theory -OR-
_____ MTH 239 (4) - Linear Algebra

Two 300/400 MTH classes (excluding MTH 308 and 309), or a sequence of two courses (8 s.h.) 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: A related experiential/capstone experience approved by the department (4 s.h). 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

Major Total (s.h.)

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 Elon Core Curriculum.