Elon Core Curriculum (56-60 sh)

**FIRST-YEAR FOUNDATIONS:**

- COR 110 – Global Experience (4 s.h.)
- ENG 110 – Writing: Argument & Inquiry (C- or better required for graduation)
- MTH 110 or 151 or 220 (4 s.h.) *MTH 151

**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 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. 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:**

- **Expression** [8 s.h.] _____
  - Eight hours chosen from at least two of the following: literature (in English or world languages), philosophy, & fine arts (art, 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, world languages, art history 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, and public health studies 201 or 202.
- **Science/Analysis** (Lab: __) *CSC 130 [8 s.h.] _____
  - Eight hours chosen from one or more of the following: mathematics/statistics, science, computer science and information science. 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.

**COR Interdisciplinary Capstone Seminar** (4 s.h.) _____

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

*Required in major; may count in Core.

**Major Requirements**

A minimum of 85 s.h. in the following courses is required.

- *MTH 151 (4) – Calculus I
- MTH 251 (4) – Calculus II
- MTH 252 (4) – Multivariable Calculus & Analytic Geometry
- MTH 330 (4) – Mathematical Reasoning
- MTH 335 (4) -
- MTH 430 (4) - Abstract Algebra
- MTH 455 (4) – Analysis
- MTH/STS 460 (2) - Seminar I
- MTH/STS 461 (2) - Seminar II

Choose one course (4 s.h.) from the following:

- MTH 326 (4) – Theory of Computation
- MTH 335 (4) – Modern Geometry
- MTH 359 (4) - Differential Equations
- MTH 445 (4) - Numerical Analysis

**Additional Requirements**

- CSC 130 (4) – Computer Science I
- One CSC course (4) numbered 200 or above
- *PHY 221 (4) – University Physics I
- *PHY 222 (4) – University Physics II

A student may be exempt from MTH 110 and/or MTH 151 by demonstrating proficiency.

Once a student has received credit, including transfer credit for a course, credit may not be received for any course with material that is equivalent to it or is a prerequisite for it without permission of the mathematics department.

All graduating mathematics majors are required to complete a senior portfolio of their work. 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.

**MATHEMATICS (BS) WITH TEACHING LICENSURE** (81sh)

- MTH 220/STS 212 (4) – Statistics in Application
- MTH 239 (4) - Linear Algebra
- MTH 308 (4) – Math for Middle Grades & Secondary Teachers
- MTH 309 (1) – 21st Century Technology in Mathematics

(Mathematics BS options are continued on page 2 …)

(... mathematics BS continued from page 1.)
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.