**Elon Core Curriculum (56-60 sh)**

**FIRST-YEAR FOUNDATIONS:**

<table>
<thead>
<tr>
<th>Course</th>
<th>(s.h.)</th>
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<tbody>
<tr>
<td>COR 110 – Global Experience</td>
<td>4</td>
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<tr>
<td>ENG 110 – Writing: Argument &amp; Inquiry (C- or better required for graduation)</td>
<td>4</td>
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<tr>
<td>MTH 110 or 151 or 220</td>
<td>4</td>
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**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:**

[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**

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**

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

**Society**

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**

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.)

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]

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*Required in major; may count in Elon Core Curriculum.*
Select one (1) of the following six (6) options

**B.S. in Engineering Physics (16 s.h.):**

- PHY 314 (4) – Modern Physics
- PHY 397 (4) – Research Methods I
- PHY 398 (4) – Research Methods II
- PHY 401 (4) – Classical Mechanics
  
  - OR -
  
- PHY 403 (4) – Electrodynamics

Select 4 s.h. of PHY at the 300-400 level

**B.S. in Engineering Mathematics (24 s.h.)**

- MTH 243 (4) – Applied Mathematical Modeling
- MTH 239 (4) – Linear Algebra
- MTH 329/STS 341 (4) – Probability Theory and Statistics
- MTH 445 (4) – Numerical Analysis
- CSC 230 (4) – Computer Science II

Choose from one of the following options:

- MTH 241 (4) – Discrete Structures
  
  - OR -
  
- MTH 330 (4) – Mathematical Reasoning

**B.S. in Computer Science/Engineering (24 s.h.)**

- MTH 241 (4) – Discrete Structures
  
  - OR -
  
- MTH 330 (4) – Mathematical Reasoning
- CSC 230 (4) – Computer Science II
- CSC 303 (4) – Mobile Computing
- CSC 330 (4) – Computer Science III
- CSC 331 (4) – Algorithm Analysis
- CSC 443 (4) – Computer Systems

**B.S. in Chemistry/Chemical Engineering (23 s.h.)**

- CHM 211 (4) – Organic Chemistry I with Lab
- CHM 212 (4) – Organic Chemistry II with Lab
- CHM 311 (4) – Quantitative Analysis
- CHM 332 (4) – Physical Chemistry I
- CHM 341 (4) – Inorganic Chemistry I
  
  \(^{^\text{CHE 450}}\) – Chemical Engineering Design I
  
  \(^{^\text{CHE 451}}\) – Chemical Engineering Design II

\(^{^\text{CHE 345}}\) Taken at engineering school

**B.S. in Environmental Science/Environmental Engineering (18-28 s.h.)**

- ENS 111/113 (4) – Intro to Environmental Science w/ Lab
- ENS 200 (4) – Strategies for Environmental Inquiry
- CHM 211 (4) – Organic Chemistry I w/Lab
- MTH 329/STS 341 (4) – Probability Theory and Statistics

**Ecological Processes (select one)**

- BIO 215 (4) – Diversity of Life
- BIO 335 (4) – Field Biology
- ENS 320 (4) – Restoration Ecology
- ENS 330 (4) – Wildlife Ecology

**Social Sciences and Humanities (select two)**

- POL 224 (4) – Environmental Policy and Law
- POL 322 (4) – State Environmental Policy/Administration
- POL 344 (4) – International Environmental Policy
- SOC 334 (4) – Environmental Sociology
- ENG 318 (4) – Science Writing
- ENG 339 (4) – American Environmental Writers
- COM 331 (4) – Environmental Communications
- ART 339 (4) – Ecological Art
- GIS 250+ (4) – Introduction to Geographical Systems
- POL 228+ (4)- U.S. Environmental Law and Politics

+ (or affiliate school equivalent)

**B.S. in Bio-physics / Biomedical Engineering (24 s.h.)**

- BIO 111/113 (4) – Introductory Cell Biology and lab
- BIO 245/246 (4) – Principles of Genetics and lab
- PHY 314 (4) – Modern Physics
- PHY 397-98 (4) – Research Methods I and II

Select one from the following:

- BIO 263 (4) – Human Anatomy
- BIO 264 (4) – Human Physiology

Select one from the following:

- PHY 401 (4) – Classical Mechanics
- PHY 403 (4) – Electrodynamics I

**Major Total**