Elon Core Curriculum (56-60 sh)

FIRST-YEAR FOUNDATIONS:

COR 110 - Global Experience (4 s.h.)

ENG 110 - Writing: Argument & Inquiry (4 s.h.)
(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:
[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 world 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, world 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 *CHM 111 (Lab:___) *CHM 112 (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.]

Major Requirements
A minimum of 65 s.h. in the following courses is required.

__BIO 111 (3) - Introductory Cell Biology
__BIO 113 (1) - Cell Biology Lab
__BIO 212 (3) - Introductory Population Biology
__BIO 214 (1) - Population Biology Lab
__*CHM 111 (4) - General Chemistry I and Lab
__*CHM 112 (4) - General Chemistry II and Lab
__*MTH 151 (4) - Calculus I
__BIO 245 (3) – Principles of Genetics
__BIO 246 (1) – Genetics Lab
__PHY 201 (4) – General Physics I
__PHY 202 (4) – General Physics II

-OR-
__PHY 221 (4) – University Physics I
__PHY 222 (4) – University Physics II
__CHM 211 (4) - Organic Chemistry I and Lab
__CHM 212 (4) - Organic Chemistry II and Lab
__CHM 311 (4) - Quantitative Analysis
__CHM 351 (4) – Biochemistry I
__CHM 353 (4) – Biochemistry II
__CHM 495 (3) – Senior Seminar in Biochemistry

Students must take a minimum of 10 hours with at least 4 hours from CHM and 4 hours form BIO1 In addition, at least 2 hours must include laboratory-based content.

BIO 324 (4) – Toxicology
BIO 327 (4) – Immunology
BIO 3281 (4) – Biochemical Basis of Disease
BIO 361 (4) – Cancer Biology
BIO 422 (4) Molecular and Cellular Biology
BIO 445 (4) Topics in Advanced Genetics
BIO 4993(1-4) Research
CHM 321 (4) Instrumental Analysis
CHM 332 (4) Physical Chemistry I
CHM 3342 (4) Physical Chemistry II
CHM 4993(1-4) Research
PHY 4993(1-4) Research

1 Other electives can be substituted with department approval.
2 Students may not use both BIO 328 and CHM 355 as electives
3 BIO/CHM/PHY 499 must be approved by the coordinator as having biochemical content
4 BIO/CHM/PHY 499 cannot count for more than 2 s.h. toward the major
5 MTH 251 is a prerequisite for this optional course.

Students majoring in biochemistry may not declare a minor in either biology or chemistry.

___Major Total (s.h.)