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) (4 s.h.) _________
MTH 110 or 151 or 220 (4 s.h.) *MTH 220

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 equivalent proficiency. 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, 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 (8 s.h.) _________

*BIO 111/113 (Lab: __) *BIO 131 (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 Elon Core Curriculum.

Major Requirements

A minimum of 66-68 s.h. in the following courses is required.

CORE COURSES (36 s.h.):

- *BIO 111/113 (4) - Introductory Cell Biology & lab
- *BIO 131 (4) - Biodiversity
- *BIO 212/214 (4) - Population Biology & lab
- *BIO 245/246 (4) - Principles of Genetics & lab
- BIO 261 (2) - Introductory Seminar
- BIO 462 (2) – Senior Seminar
- CHM 111 (4) - General Chemistry I with lab
- CHM 112 (4) - General Chemistry II with lab
- *MTH 220 (4) – Statistics in Application

(Students not placed into MTH 220 will need to take MTH 110 prior to taking MTH 220.)

Select one Integrative Biology Elective:

BIO 318  BIO 331  BIO 333
BIO 334  BIO 335  BIO 341
BIO 342  BIO 344  BIO 346
BIO 347  BIO 350  BIO 442

A required experiential component selected from:

(a) internship
(b) research

Select one concentration:

Integrative Biology Concentration (30 s.h.)

- PHY 201 (4) – General Physics I & lab
- PHY 202 (4) – General Physics II & lab
- BIO 262 (2) – Experimental Design

16 s.h. of 200-400 level biology electives from the following:

BIO 315  BIO 316  BIO 318
BIO 321  BIO 331  BIO 333
BIO 334  BIO 335  BIO 341
BIO 342  BIO 344  BIO 346
BIO 347  BIO 350  BIO 370-379
BIO 442  BIO 499

4 s.h. from the following Biotechnology/Molecular courses

BIO 254  BIO 327  BIO 348
BIO 361  BIO 370-379  BIO 328
BIO 422  BIO 445  BIO 499

CHM 351

Foundations for Medical Sciences Concentration (32 sh)

Choose either Human/Veterinary path or Allied Health/Therapy path:

Human/Veterinary Path (16 s.h.)

- CHM 211 (4) – Organic Chemistry I & lab
- CHM 212 (4) – Organic Chemistry II & lab
- PHY 201 (4) – General Physics I & lab
- PHY 202 (4) – General Physics II & lab

-OR-

Allied Health / Therapy Path (8 s.h.)

Choose 8 sh from CHM 211, PHY 201, BIO 263, BIO 264

(Foundations for Medical Sciences - requirements continued on page 2 …)
In addition, students are to complete 16 sh (for Human/Veterinary path) or 24 sh (for Allied Health/Therapy path) of 200-400 level biology electives listed below. (Required courses cannot be counted in electives.) Four of the elective s.h. can be any 200-400 level biology elective.

BIO 254  BIO 253  BIO 263
BIO 264  BIO 315  BIO 318
BIO 319  BIO 321  BIO 325
BIO 327  BIO 328  BIO 343
BIO 361
BIO 370-379  BIO 422  BIO 445
BIO 499  CHM 212  CHM 351
PHY 202

Biotechnology / Molecular Biology Concentration (32 sh)

CHM 211 (4 sh) – Organic Chemistry I & lab
CHM 212 (4 sh) – Organic Chemistry II & lab
BIO 422 (4 sh) – Molecular and Cellular Biology

Select one of the following Physics sequences:

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

Select one course from the following:

BIO 348 (4 sh) – Biotechnology
-OR-
BIO 445 (4 sh) – Advanced Genetics & lab

Choose 8 hours from the following courses. Four of the elective s.h. can be any 200-400 level biology elective:

BIO 254  BIO 321  BIO 324
BIO 327  BIO 328  BIO 348
BIO 361  BIO 370-379  BIO 445
BIO 499  CHM 351

Major Total (s.h.)

Notes:
1. Students may count up to 4 s.h. of BIO 499. Other non-BIO 499 experiences cannot be applied in this way.
2. Students may count up to 8 s.h. from special topics seminars (non-lab BIO courses at the 300-400 level.) Not all courses count towards each concentration, students should confirm with their advisor.
3. Students may count up to 8 s.h. from 200 level BIO elective courses.
4. Students cannot count both 200-300 level courses of the same topic (Biochemistry: BIO 254, BIO 328, CHM 351, Anatomy: BIO 263, BIO 343, Microbiology: BIO 253, BIO 321) toward elective credits.