General Studies Requirements (56-60 sh)

**FIRST-YEAR CORE:**

GST 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

Foreign 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; (c) score a 4 or 5 on an AP language exam or similar placement instrument; (d) score a 4 or 5 on an AP language exam or similar placement instrument. 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.

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 foreign 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, foreign 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.]

GST Interdisciplinary Capstone Seminar (4 s.h.)

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

*Required in major; may count in General Studies.

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 BIO. In addition, at least 2 hours must include laboratory-based content.

BIO 324 (4) – Toxicology
BIO 327 (4) – Immunology
BIO 328 (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 499 (1-4) Research
CHM 321 (4) Instrumental Analysis
CHM 332 (4) Physical Chemistry I
CHM 334 (4) Physical Chemistry II
CHM 499 (1-4) Research
PHY 499 (1-4) Research

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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.)