General Studies Requirements (58-62 sh)

FIRST-YEAR CORE:

- GST 110 - Global Experience (4 s.h.)
- ENG 110 - College Writing (4 s.h.)
- MTH 112 or 121 or 212 (4 s.h.)*
- HED 111 – Contemporary Wellness (2 s.h.)

Experiential Learning Requirement (ELR): (One Unit)

May be met by any one of the following: internship, practicum, co-op, study abroad, student teaching, approved field-based course or documented service, leadership, or individualized learning experience.

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, using a department of foreign languages approved placement instrument; (c) score a 4 or 5 on an AP language exam or similar exam. Each student must take the 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 services - HSS 111 only, political science, psychology, & sociology/anthropology.]

Science (8 s.h.)*

[Eight hours chosen from one or more of the following:
mathematics, science, and computer science (CSC designation). 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.]

STATISTICS 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 42-44 s.h. in the following courses is required.

Statistics foundations: (16 sh)

- *MTH/STS 212 (4) – Statistics in Application
- STS 213 (4) – Survey Sampling Methods
- STS 232 (4) – Statistical Modeling
- STS 325 (4) – Design and Analysis of Experiments

Mathematical foundations:

- MTH 116 (4) – Applied Calculus
- OR
- *MTH 121 (4) – Calculus I

Choose one course from the following:

- STS 256 (4) – Applied Nonparametric Statistics
- STS 327 (4) – Statistical Computing
- STS 341 (4) – Probability Theory and Statistics
- STS 342 (4) – Statistical Theory

Choose from the following: A related experiential/capstone experience approved by the department (2-4 sh). Approved options are:

- STS 460 (2) - Seminar I
- STS 461 (2) – Seminar II
- STS 481 (2-4) Internship in Statistics
- STS 499 (2-4) Independent Research in Statistics

Complete one of the following concentrations:

ENVIRONMENTAL STATISTICS (16 sh)

- *ENS 111/113 (4) – Intro to Environmental Science and lab
- *ENS 215 (4) – Diversity of Life

Choose two courses from the following:

- ENS 250 (4) – Intro to Geographic Information Systems
- GEO 345 (4) – Global Environmental Change
- ECO 335 (4) – Environmental Economics
- BIO 342 (4) – Aquatic Biology
- BIO 350 (4) – General Ecology

STATISTICAL METHODS IN SOCIAL SCIENCE (16 sh)

Select four courses from the following:

(a) Two of the areas of economics, psychology, sociology/anthropology and political science must be represented.
(b) No more than one course at the 100 level

- ANT 113 (4) – Human Evolution and Adaptation
- ANT 364 (4) – Inequality and Development in Latin Am.
- ECO 111 (4) – Principles of Economics
- ECO 310 (4) – Intermediate Macroeconomics
- ECO 311 (4) – Intermediate Microeconomics
- ECO 347 (4) – Introduction to Econometrics

(concentration options are continued on page 2)
(Statistical Methods in Social Science concentration continued)

POL 111 (4) – American Government
POL 321 (4) – Public Opinion Polling
POL 328 (4) – Public Policy
POL 329 (4) – Political Behavior
POL 431 (4) – Policy Analysis and Program Evaluation
PSY 111 (4) – Introduction to Psychology
PSY 321 (4) – Educational Psychology
PSY 331 (4) – Psychological Testing
PSY 333 (4) – Abnormal Psychology
PSY 356 (4) – Health Psychology
PSY 363 (4) – Industrial and Organizational Psychology
SOC 111 (4) – Introductory Sociology
SOC 215 (4) – Qualitative Research Methods
SOC 355 (4) – Criminology

BIO-STATISTICS (16 sh)

____*BIO 111/113 (4) – Cell Biology and lab
____*BIO 112/114 (4) – Population Biology and lab

BIO 231 (4) – Biodiversity
-OR-
____BIO 245/246 (4) – Genetics and lab

Choose one course from the following:

PHS 301 (4) – Introduction to Epidemiology
(Prerequisite, PHS 201, waived for declared Statistics majors with the permission of PHS coordinator)

BIO 318 (4) – Comparative Vertebrate Structure & Function
BIO 325 (4) – Human Histology
BIO 331 (4) – The Biology of Animal Behavior
BIO 332 (4) – Zoology
BIO 335 (4) – Field Biology
BIO 341 (4) – Botany
BIO 344 (4) – Evolution
BIO 348 (4) – Biotechnology
BIO 350 (4) – General Ecology

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_____ Major Comprehensive Evaluation

All graduating statistics 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 statistical 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.

_____ Major Total (s.h.)