Major Requirements

A minimum of 42-44 s.h. in the following courses is required.

Statistics foundations: (16 sh)

Choose one course from the following:

- MTH 116 (4) – Applied Calculus
- MTH 151 (4) – Calculus I

Mathematical foundations:

Choose one course from the following:

- MTH 220/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

Complete one of the following concentrations:

Environmental Statistics (16 s.h.)

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

Choose two courses from the following (8 s.h.):

- 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 s.h.)

Select four courses (16 s.h.) with only one at the 100 level. Select from the list below from at least two areas: economics, psychology, sociology/anthropology, and political science/policy studies.

- ANT 113 (4) – Human Evolution and Adaptation
- ECO 111 (4) – Principles of Economics
- ECO 310 (4) – Intermediate Macroeconomics
- ECO 311 (4) – Intermediate Macroeconomics
- ECO 347 (4) – Introduction to Econometrics
- POL 111 (4) – American Government
- POL 321 (4) – Public Opinion Polling
- POL 329 (4) – Political Behavior
- PST 328 (4) - Public Policy
- 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/ANT 215 (4) – Qualitative Research Methods
- SOC 355 (4) – Criminology

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

**BIO-STATISTICS** (16 sh)

- *BIO 111/113 (4) – Cell Biology and lab
- *BIO 212/214 (4) – Population Biology and lab

Select one course from the following:

- BIO 131 (4) – Biodiversity
- BIO 245/246 (4) – Genetics and lab

Choose one course from the following:

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

**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.)**