Checklist for Graduation Requirements in Statistics - Bachelor of Arts

2013-14

Minimum of 132 s.h. required for graduation (36 s.h. must be 300/400-level courses)
(Additional hours to total 132 s.h. -- includes second major, minor, and elective hours)

Name_____________________________I.D. # ____________________________

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.)* 

**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, 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 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** (Lab: ___) (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 42-44 s.h. in the following courses is required.

**Statistics foundations:** (16 s.h.)

*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

**Mathematical foundations:**

MTH 116 (4) – Applied Calculus

-OR-

*MTH 151 (4) – Calculus I

Choose one course from the following:

STS 256 (4) – Applied Nonparametric Statistics
STS 327 (4) – Statistical Computing
STS 329/STS 341 (4) - Probability Theory and Statistics
STS 342 (4) – Statistical Theory

**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
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)
POL 111 (4) – American Government
POL 321 (4) – Public Opinion Polling
POL 328 (4) – Public Policy
POL 329 (4) – Political Behavior
PST 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 212/214 (4) – Population Biology and lab

BIO 131 (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.)