2016-17 CHECKLIST FOR GRADUATION REQUIREMENTS IN STATISTICS - BACHELOR OF ARTS
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. #_____

Elon Core Curriculum (56-60 sh)

FIRST-YEAR FOUNDATIONS:

COR 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

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 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. 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 _____ (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.]

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

Statistics foundations: (16 sh)
_____*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:

Select one course from the following:
MTH 116 (4) – Applied Calculus
*MTH 151 (4) – Calculus I

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Choose one course from the following:
STS 256 (4) – Applied Nonparametric Statistics
STS 327 (4) – Statistical Computing
MTH 329/STS 341 (4) - Probability Theory and Statistics
STS 342 (4) – Statistical Theory

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Choose from the following: A related experiential/capstone experience approved by the department. Approved options (2-4 s.h.):
_____STS/MTH 460 (2) - Seminar I
_____STS/MTH 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 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

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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 Microeconomics
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

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(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

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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)

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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.)