2012-13  CHECKLIST FOR GRADUATION REQUIREMENTS IN MATHEMATICS - BACHELOR OF SCIENCE
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.)

General Studies Requirements (58-62 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 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 above 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 *PHY 221 (Lab:____) *PHY 222   (8 s.h.)________
[Eight hours chosen from one or more of the following: mathematics, science, and computer science (CSC designation). 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 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 56 s.h. in the following courses is required.

_____MTH 121 (4) - Calculus I
_____MTH 221 (4) - Calculus II
_____MTH 231 (4) - Mathematical Reasoning
_____MTH 311 (4) - Linear Algebra
_____MTH 312 (4) - Abstract Algebra
_____MTH 321 (4) - Multivariable Calculus & Analytic Geometry
_____MTH 425 (4) - Analysis
_____MTH/STS 460 (2) - Seminar I
_____MTH/STS 461 (2) - Seminar II
Choose one course (4 s.h.) from the following:

_____MTH 331 (4) - Modern Geometry
_____MTH/STS 341 (4) - Probability Theory & Statistics
_____MTH 351 (4) - Theory of Computation
_____MTH 415 (4) - Numerical Analysis
_____MTH 421 (4) - Differential Equations

_____MTH elective (4) at the 300/400-level (excluding MTH 481)
_____CSC 130 (4) – Computer Science I
_____One CSC course (4) numbered 200 or above
_____*PHY 221 (4) – University Physics I
_____*PHY 222 (4) – University Physics II
_____Major Comprehensive Evaluation

_____Major Total (s.h.)