2007-08 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.)

Name________________________________________ I.D. #________________________ H.S. deficiencies: Math ___  Foreign Language ___

General Studies Requirements
(General Studies must total at least 58 s.h.)

FIRST-YEAR CORE:

GST 110 - Global Experience (4 s.h.)_________________
ENG 110 - College Writing  (4 s.h.)_________________(C- or better required for graduation)
MTH 112 or 121 or 212 (4 s.h.) *
HED 111 – Contemp. Wellness Issues  (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 or an approved field-based course. Also may be met by service, leadership, or individualized learning experience.]

Foreign Language Requirement:
Students must meet one of the following: placing beyond FL 122 on the CAPE placement test, completing a 122-level language course, completing a semester or summer in a university-approved program in a non-English speaking country with language study at the 122-level or above, scoring 4 or 5 on an Advanced Placement language exam or similar exam.

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 religion. Students taking foreign language courses to meet Elon’s proficiency requirement may only apply 4 s.h. of that coursework toward Civilization.]

Society (8 s.h.)_________________
[Eight hours chosen from at least two of the following: economics, geography, political science, psychology, & sociology/anthropology.]

Science *PHY 113 (Lab:____) *PHY 114 (8 s.h.)_________________
[Eight hours chosen from one or more of the following: mathematics, science, and computer science (must have CSC department 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 courses outside the major field chosen from departments and areas listed under Studies in the Arts and Sciences.]

GST Interdisciplinary Seminar (4 s.h.)_________________
[300-400 level GST course; requires junior/senior status.]

Major Requirements

A minimum of 56 s.h. in the following courses is required.

____ *MTH 121 (4) - Calculus & Analytic Geometry I
____ MTH 221 (4) - Calculus & Analytic Geometry II
____ MTH 231 (4) - Mathematical Reasoning
____ MTH 311 (4) - Linear Algebra
____ MTH 312 (4) - Abstract Algebra
____ MTH 321 (4) - Calculus & Analytic Geometry III
____ MTH 425 (4) - Analysis
____ MTH 361 (2) - Seminar I
____ MTH 461 (2) - Seminar II

Choose one course from the following:

____ MTH 331 (4) - Modern Geometry
____ MTH 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 113 (4) - Physics w/Calculus I
____ *PHY 114 (4) - Physics w/Calculus II

____ Major Total (s.h.)

*Required in major; may count in General Studies.