

**2008-09 CHECKLIST FOR GRADUATION REQUIREMENTS IN COMPUTER SCIENCE - 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. # \_\_\_\_\_ 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, approved field-based course or documented 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 exam. Students are expected to complete this requirement by the end of their sophomore year.

**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. 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** \_\_\_\_\_ (Lab: \_\_\_\_\_) \*CSC 130 \_\_\_\_\_ (8 s.h.) \_\_\_\_\_  
 [Eight hours chosen from one or more of the following:  
 mathematics, science, and computer science (*must have the CSC department designation*). 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 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.]

\*Required in major; may count in General Studies.

**Major Requirements**

A minimum of 52 s.h. in the following courses is required.

\_\_\_\_\_ \*CSC 130 (4) – Computer Science I  
 \_\_\_\_\_ CSC 230 (4) – Computer Science II  
 \_\_\_\_\_ CSC 330 (4) – Computer Science III  
 \_\_\_\_\_ CSC 331 (4) - Algorithm Analysis  
 \_\_\_\_\_ CSC 335 (4) – Programming Languages  
 \_\_\_\_\_ CSC 342 (4) - Computer Systems  
 \_\_\_\_\_ CSC 442 (4) – Mobile Computing  
 \_\_\_\_\_ CSC 462 (4) – Software Development/Capstone  
 \_\_\_\_\_ MTH 206 (4) – Discrete Structures

Select one (4 s.h.) course from the following:  
 MTH 221 (4) – Calculus and Analytic Geometry II  
 MTH 306 (4) – Applied Matrix Theory  
 \_\_\_\_\_

Select one course (4 s.h.) beyond core math requirement:

\_\_\_\_\_ Probability/Statistics: if core math requirement was MTH 121 then MTH 112 - General Statistics or a probability and/ or statistics course.

**-OR-**  
 \_\_\_\_\_ Quantitative Analysis: if core math requirement was MTH 112 or 212 then MTH 116 – Applied Calculus or MTH 121- Calculus and Analytic Geometry I

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

CSC 410 (4) – Artificial Intelligence  
 CSC 415 (4) – Numerical Analysis  
 CSC 420 (4) – Game Programming and Computer Graphics  
 CSC 430 (4) – Advanced Programming Concepts  
 CSC 431 (4) – High Performance Computing  
 CSC 499 (4) – Research  
 CSC 300-400 level elective (4)

\_\_\_\_\_ Major Total (s.h.)