

2008-09 CHECKLIST FOR GRADUATION REQUIREMENTS IN COMPUTER SCIENCE - 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, 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.]

Major Requirements

A minimum of 64 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 course (4 s.h.) 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 three (12 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

Select 8 s.h. from one of the following 2-course sequence:
 _____ *CHM 111 & 113 (4) – Gen. Chemistry I and Lab
 _____ CHM 112 & 114 (4) – Gen. Chemistry II and Lab

-OR-
 _____ *PHY 113 & PHYL 113 (4) – Gen. Physics I w/ Calculus
 _____ PHY 114 & PHYL 114 (4) – Gen. Physics II w/ Calculus
-OR-
 _____ *BIO 111 & 113 (4) – Intro. to Cell Biology and Lab
 _____ BIO 112 & 114 (4) – Intro. to Population Bio. and Lab

_____ Major Total (s.h.)

*Required in major; may count in General Studies.