

**CHECKLIST FOR GRADUATION REQUIREMENTS IN BIOLOGY - 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.) \*MTH 112 or 212

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** \*BIO 111/113 (Lab: \_\_\_\_\_) \*BIO 112/114 (8s.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 48-52 s.h. in the following courses is required.

\_\_\_\_\_ \*BIO 111 (3) - Introductory Cell Bio  
 \_\_\_\_\_ \*BIO 113 (1) - Cell Biology Lab  
 \_\_\_\_\_ \*BIO 112 (3) - Introductory Population Bio  
 \_\_\_\_\_ \*BIO 114 (1) - Population Biology Lab  
 \_\_\_\_\_ BIO 231 (4) - Biodiversity  
 \_\_\_\_\_ BIO 245(4) - Principles of Genetics  
 \_\_\_\_\_ BIO 261 (2) - Introductory Seminar

Choose one course (4 s.h.) from Molecular/Cellular Category:

\_\_\_\_\_ BIO 325 (4) - Human Histology  
 \_\_\_\_\_ BIO 348 (4) - Biotechnology  
 \_\_\_\_\_ BIO 351/352 (4) - Biochemistry and lab  
 \_\_\_\_\_ BIO 353/354 (4) - Advanced Biochemistry and lab  
 \_\_\_\_\_ BIO 422 (4) - Molecular and Cellular Biology  
 \_\_\_\_\_ BIO 445 (4) - Advanced Genetics

Choose one course (4 s.h.) from Organismal Category:

\_\_\_\_\_ BIO 316 (4) - Developmental Biology  
 \_\_\_\_\_ BIO 318 (4) - Comp. Vertebrate Structure & Function  
 \_\_\_\_\_ BIO 321 (4) - Microbiology  
 \_\_\_\_\_ BIO 331 (4) - Animal Behavior  
 \_\_\_\_\_ BIO 332 (4) - Zoology  
 \_\_\_\_\_ BIO 341 (4) - Botany  
 \_\_\_\_\_ BIO 343 (4) - Clinical Anatomy  
 \_\_\_\_\_ BIO 442 (4) - Plant Physiology

Choose one course (4 s.h.) from Supraorganismal Category:

\_\_\_\_\_ BIO 335 (4) - Field Biology  
 \_\_\_\_\_ BIO 442 (4) - Aquatic Biology  
 \_\_\_\_\_ BIO 344 (4) - Evolution  
 \_\_\_\_\_ BIO 452 (4) - General Ecology

Choose 8 s.h. of BIO electives selected from:

-Molecular / Cellular Biology category  
 -Organismal Biology category  
 -Supraorganismal Biology category  
 -May include max. of 4 s.h. special topics seminars  
 - Undergraduate research (BIO 499) up to 4 s.h.  
 - (*At least one elective must have "Diversity" designation; see catalog*)

\_\_\_\_\_ BIO 462 (2) - Senior Seminar

\_\_\_\_\_ CHM 111 (3) - General Chemistry I  
 \_\_\_\_\_ CHM 113 (1) - General Chemistry I Lab  
 \_\_\_\_\_ CHM 112 (3) - General Chemistry II  
 \_\_\_\_\_ CHM 114 (1) - General Chemistry II Lab  
**-OR- (in lieu of CHM 111, 113, 112, 114)**  
 \_\_\_\_\_ CHM 115 (3) - Advanced General Chemistry  
 \_\_\_\_\_ CHM 116 (1) - Advanced General Chemistry Lab

\_\_\_\_\_ \*MTH 112 (4) - General Statistics

**-OR-**  
 \_\_\_\_\_ \*MTH 212 (4) - Statistics in Application

\_\_\_\_\_ A required experiential component selected from:

(a) internship  
 (b) research  
 (c) specialized approved lab assistantship

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