CHECKLIST FOR GRADUATION REQUIREMENTS IN PHYSICS - 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. # ____________________________

**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.) *MTH 121
- 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 higher at Elon, or receive transfer 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 *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.)

* * * * MTH 321 MTH 421 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 61 s.h. in the following courses is required.

- *PHY 221 (4) - University Physics I
- *PHY 222 (4) - University Physics II
- PHY 314 (4) - Modern Physics
- *PHY 397 (2) – Research Methods I
- *PHY 398 (2) – Research Methods II
- PHY 401 (4) - Classical Mechanics
- PHY 403 (4) – Electrodynamics I
- PHY 404 (4) – Electrodynamics II
- *PHY 411 (4) – Quantum Mechanics
- *MTH 121 (4) - Calculus I
- *MTH 221 (4) - Calculus II
- *MTH 321 (4) – Multivariable Calculus & Analytic Geometry
- *MTH 421 (4) – Differential Equations
- CSC 130 (4) – Computer Science I

Eight semester hours of PHY at the 300-level or higher

- *PHY 499 (1) - Research

- Demonstrate competence during the junior/senior assessment as determined by the physics department.

- Major Total (s.h.)