## Course requirements for all UNCW degrees include: (1) University Studies, (2) specific major requirements, and (3) sufficient elective hours for a combined total of a minimum of 124 hours.

### MAJOR REQUIREMENTS – PHY (Minimum 46-58 hours)

#### Core Courses: (35 hours)
- **CHM 101** General Chemistry I (4)
- **CHM 102** General Chemistry II (4) Prerequisite: CHM 101
- **MAT 161** Calculus with Analytical Geometry I (4) Prerequisite: MAT 112 or 115 or equivalent preparation
- **MAT 162** Calculus with Analytical Geometry II (4) Prerequisite: MAT 161
- **MAT 261** Multivariate Calculus (4) Prerequisite: MAT 162
- **PHY 201** General Physics I (4) Corequisite: MAT 161
- **PHY 202** General Physics II (4) Prerequisite: PHY 201, Corequisite MAT 162
- **PHY 321** Classical Dynamics I (3) Prerequisite: PHY 202, Corequisite: PHY 311 or MAT 361
- **PHY 335** Modern Physics (4) Prerequisite: PHY 202

#### Option 1- General Physics: (11 hours)
- **PHY 260** Introduction to Astronomy (3)
- **PHY 300** Analog Circuits (2) Prerequisite: PHY 202
- **PHY** Choose 6 hours among PHY courses at the 300-400 level.

#### Option 2- Environmental Physics: (23 hours)
- **EVS 195** Introduction to Environmental Studies (3) and lab (1)
- **EVS 281** Introduction to Geographic Information Systems in Environmental Studies (0-4) Pre-requisite: EVS 195 or consent of instructor
- **MAT 361** Differential Equations (3) Pre-requisite: MAT 261
- **PHY 350** Fluid Mechanics (3) Pre-requisite: PHY 321 or MAT 361
- **PHY 455** Thermal Physics (3) Pre-requisite: PHY 335 or consent of instructor
- **PHY** Choose 6 hours of Environmental Science courses at the 300-400 level.

### NOTE:
- To satisfy the **Oral Communication Requirement**, a student must successfully complete PHY 495 or any other approved oral intensive course (see Undergraduate Catalogue).
- To satisfy the **Applied Learning Requirement**, a student must successfully complete one of the following: directed individual study in any scientific discipline, departmental honors in any science department, or PHY 493, 495.

**In addition to completing the requirements for a degree in PHY and the other requirements of the Teacher Education Program, the following courses are also required for licensure: **+BIO 201 and **+GLY 120. For information on the Teacher Education Program admissions criteria and the courses required for licensure in NC, see the Watson School of Education section of the undergraduate catalogue or the Watson School of Education web site: [http://www.uncw.edu/edu](http://www.uncw.edu/edu). Students planning to pursue licensure should apply to the Watson School of Education as soon as admissions requirements are met (typically in the sophomore year) and plan their programs in regular consultation with their advisors. Teacher certification requirements are established at the state level and may be changed by the state at any time.

A grade of "C-" or better is required in each physics course and a "C" (2.00) average on all courses taken in physics.

*These courses require a lab
+May also be used to satisfy University Studies Foundations & Approaches and Perspectives requirements

### Requirements to declare PHY: Completion of 24 hours

For further information, see the PHY website: [http://www.uncw.edu/phy](http://www.uncw.edu/phy) and [http://catalogue.uncw.edu](http://catalogue.uncw.edu).

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This document is considered an unofficial guide. Please refer to your degree audit for the latest updates.