B. A. Mathematics (MAT)
College: Arts & Sciences
Option 1: Mathematics

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 - MAT (Minimum 45-48 hours)

Core Courses: (30 hours)
- +2 MAT 161 Calculus with Analytical Geometry I (4) Prerequisite: MAT 112 or 115 or equivalent preparation
- +3 MAT 162 Calculus with Analytical Geometry II (4) Prerequisite: MAT 161
- *3 MAT 261 Multivariate Calculus (4) Prerequisite: MAT 162
- MAT 275 Axiomatic Systems (3) Prerequisite: MAT 152 or 161
- MAT 311 Intermediate Analysis (3) Prerequisites: MAT 261 and 275
- +3 MAT 335 Linear Algebra and Matrices (3) Prerequisite: MAT 162
- MAT 336 Abstract Algebra (3) Prerequisite: MAT 275 or consent of instructor
- +3 STT 215 Introduction to Statistics (3) Prerequisite: Satisfactory performance on the mathematics placement test or MAT 105
- STT 315 Probability and Statistics (3) Prerequisites: STT 215 and MAT 152 or 162

Option 1: Mathematics: (15 hours)
- MAT 495 Seminar in Mathematics (3) Prerequisites: 9 hours of MAT at the 300-400 level (meets Oral Learning requirement)
- or MAT 499 Honors Work in Mathematics (2-3) Prerequisites: Eligibility for Honors Program
- Choose 12 hours of MAT or STT. At least 12 hours must be at the 300-400 level and at least 6 hours must be MAT.

1+*PHY 201 is highly recommended as the University Studies Scientific Approaches requirement

2 Students interested in the degree program in MAT are encouraged to begin with MAT 161. Initial placement is based on high school background and the MAT Placement Test. Students not prepared for MAT 161 should begin with MAT 115 or 111-112, as appropriate.


NOTE: To satisfy the Applied Learning Requirement, student must successfully complete one or more of the following: MAT 495, 498, 499, or SEC 404.

NOTE: It is strongly recommended that a student either complete a minor in a discipline that applies mathematics or elect advanced coursework involving mathematical applications in another discipline. A list of recommended courses in biology, chemistry, computer science, geography and geology, economics, information systems and operations management, physics, psychology, sociology, and statistics is available in the department office. For the teacher licensure option, the licensure requirements fulfill this recommendation. A student who plans to pursue graduate study in mathematics is urged to take MAT 411-412.

An overall average of “C” (2.00) or better is required for all 300-400 level MAT or STT courses counted toward the major.

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

Requirements to declare MAT: Completion of 24 hours
For further information, see the MAT website: http://www.uncw.edu/math and http://catalogue.uncw.edu.

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

5/25/2015