# The University of North Carolina at Pembroke

**ADMISSION and Plan of Study for ADV-MA Program**

**Middle and High School Comprehensive Science Education**

# *PROGRAM ADMISSION REQUIREMENTS*

## Pre-requisites

1. Current and Valid Science Teaching License in Middle or High School Science Teaching
2. GPA minimum 2.5 – calculated including the last coursework that was completed
3. Graduate courses up to 12 hours transferred in from another graduate program in the sciences per graduate director approval with a grade of B or better

**PLAN OF STUDY FOR ADV – MA PROGRAM COMPREHENSIVE SCIENCE EDUCATION**

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**Prerequisite/Corequisite**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Current and Valid Secondary Science Teaching License – Middle OR High School

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GPA of 2.5 or better  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Admission to program and checkpoint one – taskstream code ADVCheckpoints

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Orientation to the graduate school and a plan of study  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Attends School of Education informational meetings

**Content Pedagogy (6 hours)**

\_\_\_\_\_SCE 5600: Science Ed. Foundations Course (spring semester and Checkpoint 2) 3

\_\_\_\_\_SCE 5800: Contemporary Issues in Science (fall semester) 3

**Research Core (12 hours)**

\_\_\_\_EDN 5660: Applied Educational Research 3

\_\_\_\_LIB 5000: Introduction to Graduate Academic Research 3

\_\_\_\_BIO 5550: Independent Biology Research (pre-thesis course – fall semester) 3

\_\_\_\_SCE 5700: Improving Science Instruction (thesis capstone course – spring semester – Checkpoint 3) 3

**Content Core (\*18 hours in the science disciplines)**

\_\_\_\_BIO(S) Courses: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 - varies

\_\_\_\_CHM(S) Courses: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 - varies

\_\_\_\_PHY(S) Courses: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 - varies

\_\_\_\_GEO(S) Courses: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 - varies

\*Any biology, chemistry, physics, or geology course  
\* MUST BE in BIOLOGY to get 18 graduate credits for College Teaching credential

36 Hours Total   
 (see pg. 2 for

list of courses)

Graduate Transfer Credit(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Program Director \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Recommendation for M-Teaching Licensure Requirements***

* Satisfactory completion of all Plan of Study course requirements
* Satisfactory completion of taskstream requirements and checkpoints
* Completion of action research thesis project including at least one presentation

**\*UNCP graduate school requires that a student receive no more than 2 C’s in coursework to remain in the program. Upon receiving a third C in a course, a graduate student is removed from the program.**

**Fall 2022**

**Courses for the ADV-MA Comprehensive Secondary Science Teacher Education Program**

**Masters of Arts in Science Education (M.Ed.)**

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| **Biology**  \_\_\_\_\_BIO 5120 Topics in Ecology and Environmental Biology (3)  \_\_\_\_\_BIO 5150 Advanced Microbiology (3)  \_\_\_\_\_BIO 5200 Current Trends in Molecular and Cell Biology (3)  \_\_\_\_\_BIO 5550 Independent Biology Research (3)  \_\_\_\_\_ BIO 5770 Science in the Natural Environment (3)  \_\_\_\_\_ BTES 5200 Methods in Biotechnology (3)  \_\_\_\_\_ BIOS 5095 Genomics (3) \_\_\_\_\_\_OTHER BIOS courses as offered.  **Chemistry**  \_\_\_\_\_CHM 5200 Current Trends in Chemistry (3)  \_\_\_\_\_CHMS 5615 Modern Chemistry (3)  \_\_\_\_\_CHM 5480 Historical Perspectives of Chemistry (3)  \_\_\_\_\_CHMS 5040 Pharmaceutical Analysis (3)  \_\_\_\_\_CHMS 5620 Equilibrium in Chemical Reactions (3)  \_\_\_\_\_CHMS 5020 Forensic Chemistry (3)  \_\_\_\_\_ OTHER CHMS courses as offered.  **Earth Science**  \_\_\_\_\_GLY 5010 Essentials of Earth Science (3)  \_\_\_\_\_GLY 5410 Meteorology and Climatology (3)  \_\_\_\_\_ OTHER GLYS courses as offered.  **Physics**  \_\_\_\_\_PHY 5200 Current Trends in Physics (3)  OTHER PHYS courses as offered.  **Science Course Rotations**   |  |  |  |  | | --- | --- | --- | --- | | **Fall** | **Spring** | **Summer One** | **Summer Two** | | **2022** | **2023** | **2023** | **2023** | | BIO 5150 | CHMS 5615 | BIO 5120 | CHMS 5620 | | GLY 5010 | PHY 5200 |  |  | | **2023** | **2024** | **2024** | **2024** | | BIOS 5095 | CHM 5200 | BIO 5200 | CHM 5480 | | GLY 5410 | PHY 5200 |  |  | | **2024** | **2025** | **2025** | **2025** | | BTES 5200 | CHMS 5040 | BIO 5770 | CHMS 5020 | | GLY 5010 | PHY 5200 |  |  |   **Science Education Course Rotations**  SCE 5800 – offered each fall semester as needed (MA students only)  SCE 5600 – offered each spring semester  BIO 5550 – offered each fall as needed (MA students only pre-thesis course)  SCE 5700 – offered each spring as needed (MA students only thesis course) |