

Goals of the UNCA Teacher Education Program

The Education Department of the University of North Carolina at Asheville has as its primary mission to provide the professional preparation for a North Carolina Standard Professional I Teaching license with a liberal arts foundation. The Department is committed to serving undergraduates who earn the license as they complete their degree at UNCA, and post-baccalaureate students who have decided to become teachers.

Overarching Unit Goals

- Meet national standards for the Unit.
- Ensure the excellence of all licensure programs in the Unit.
- Respond to the needs of the regional and state-wide teaching community.

Unit Goals for Programs

- Meet the state and national standards relevant to the various programs.
- Meet the Unit Goals for candidates through the various programs.

Unit Goals for Candidates

- Demonstrate depth and breadth in subject area content.
- Apply state and national standards in designing, implementing, differentiating, assessing, and reflecting on instruction while effectively utilizing time, materials, and human resources.
- Demonstrate professional dispositions.

Admission Information

All interested persons should apply for admission to UNCA by contacting the Admissions Office, (828) 251-6481 or toll free 1-800-531-9842. Students must meet university admission requirements.

9-12 Physics Licensure Program

The goals of the program are

- *To structure and interpret the concepts, ideas and relationships in Physics and other sciences that are needed to advance student learning*
- *To engage students in activities to define values, beliefs, and assumptions inherent to the creation of scientific knowledge within the scientific community and contrast science to other ways of knowing*
- *To engage students regularly and effectively in science inquiry and communication skills in Physics and other sciences*
- *To relate Physics and other sciences to the daily lives and interests of students*
- *To create a community of diverse learners who can construct meaning from science experiences in Physics and other sciences*
- *To develop and apply a coherent focused curriculum that addresses the needs, abilities and interests of students in Physics and other sciences*
- *To relate Physics and other sciences to the community, improving practice through personal actions, education and development*
- *To plan effective lessons in teaching Physics and other sciences which apply knowledge of the growth and development of adolescents and young adults at the secondary level*
- *To utilize the unique opportunities and resources available at the secondary level*
- *To be committed to working with young adults at the secondary level*

There are two required components to the 9-12 Physics Licensure program:

- Baccalaureate degree in Physics with teacher licensure at UNCA (or its equivalent if transfer or post-baccalaureate).
- Completion of the Education, Psychology, and other courses outlined in this brochure, and all other Education Department requirements, in accordance with the Policy and Procedures Manual and current UNCA Catalog.

Formal Admission to Teacher Education Program

In order to be formally admitted to the UNCA Teacher Education Program, students must

- have earned a 2.5 cumulative grade point average from UNCA or other graduating institution;
- have achieved a grade of “C-” or better in Education 310/311 and other Education courses
- have received acceptable scores as established by the NCDPI on the SAT or ACT, or Praxis I Pre-Professional Skills Test (PPST); and
- have satisfactory evaluations on dispositions checklists and on each of the abilities/characteristics listed on the Department’s Requirements for Licensure contract.

Courses Required for Secondary Licensure in Physics *

EDUC 310 Introduction to Education, K-12 (3 hours)
EDUC 311 Technology Lab & Field Placement (1 hour)
EDUC 314 Reading and Writing in the Content Area (3 hours)
EDUC 382 Methods and Management in Teaching of Science, 6-12 (4 hours)
EDUC 396 Research Methods in Education, K-12 (1 hour)
EDUC 455 Student Teaching and Seminar, K-12 (6 hours)
EDUC 496 Directed Research in Education, K-12 (2 hours)

* See UNCA catalog for pre-requisites

(over)

Required Course work in Major & Correlates

PHYS 221 Physics I (4)
PHYS 222 Physics II (4)
PHYS 323 Modern Optics (3)
PHYS 325 Thermal Physics (3)
PHYS 326 Modern Physics (3)
PHYS 331 Experimental Physics I (1)
PHYS 332 Experimental Physics II (2)
PHYS 401 Classical Mechanics (3)
PHYS 402 Electromagnetic Theory (3)
PHYS 414 Quantum Mechanics I (3)

CHEM 111 General Chemistry Lab (1)
CHEM 132 General Chemistry (3)
ENVR 130 Intro. to Environmental Science (3)
MATH 191 Calculus I (4)
MATH 192 Calculus II (4)
MATH 291 Calculus III (4)
PSYC 101 General Psychology: Brain & Behavioral Processes(3)
Or
PSYC 102 General Psychology: Personality & Social Processes (3)
PSYC 318 Psychology Applied to Teaching (4)

For Comprehensive Science Licensure 9-12 add the following classes:
BIOL 123 and 124 Principles of Biology and Lab (4)
or BIOL 115 and 116 (8)
ENVR 105 Physical Geology (4)
CHEM 145 Quantitative Chemistry Lab (1)
CHEM 236 General Chemistry II (3)

Science Education Advisor at UNCA
Students wishing to be licensed in Science must meet regularly with both their Science and Education advisors. For more information, contact

Ms. Judy Beck
(828) 251-6049
RBH 124A

jbeck@unca.edu

Education Dept. CPO 1950
One University Heights
Asheville NC 28806

Check out our web site!

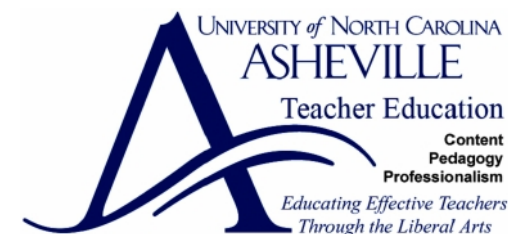
<http://www.unca.edu/education>

THE UNIVERSITY OF NORTH CAROLINA
ASHEVILLE



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Physics Licensure Program 9-12



UNCA

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