

## 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 Chemistry Licensure Program

The goals of the program are

- *To structure and interpret the concepts, ideas and relationships in Chemistry 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 Chemistry and other sciences*
- *To relate Chemistry 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 Chemistry and other sciences*
- *To relate Chemistry and other sciences to the community, improving practice through personal actions, education and development*
- *To plan effective lessons in teaching Chemistry 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 Chemistry Licensure program:*

- Baccalaureate degree in Chemistry 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 Chemistry \*

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

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Required Course work in Major & Correlates

CHEM 145 Quantitative Chemistry Lab (1)  
CHEM 222 Organic Chemistry Lab (2)  
CHEM 231 Organic Chemistry I (3)  
CHEM 232 Organic Chemistry II (3)  
CHEM 236 General Chemistry II (3)  
CHEM 237 Analytical Chemistry (2)  
CHEM 314 Physical Chemistry I Lab (1)  
CHEM 328 Elements of Inorganic Chemistry (3)  
CHEM 332 Instrumental Analysis (2)  
CHEM 334 Physical Chemistry I (3)  
CHEM 336 Bio-Organic Chemistry (3)  
CHEM 380 Chemical Research Methods (1)  
CHEM 413 Inorganic Chemistry Lab (1)  
CHEM 415 Chemistry Seminar (1)  
CHEM 436 Biochemistry I (3)

MATH 191 Calculus I (4)  
MATH 192 Calculus II (4)  
PHYS 221 Physics I (4)  
PHYS 222 Physics II (4)

Or PHYS 231 Introductory Physics II (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)  
ENVR 130 Intro. to Environmental Science (3)

For Comprehensive Science Licensure 9-12 add the following classes:

ENVR 105 Physical Geology (4)  
BIOL 123 and 124 Principles of Biology and Lab (4)  
or BIOL 115 and 116 (8)

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

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Check out our web site!

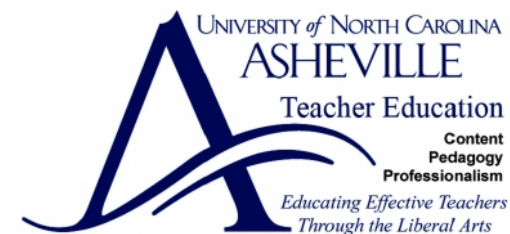
<http://www.unca.edu/education>

THE UNIVERSITY OF NORTH CAROLINA  
**ASHEVILLE**



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# Chemistry Licensure Program 9-12



## UNCA

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