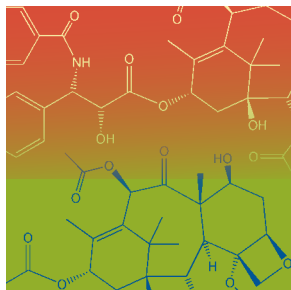


department of chemistry



UNIVERSITY of NORTH CAROLINA
ASHEVILLE



13 Al 26.98	14 Si 28.09	15 P 30.98	16 S 32.06	17 Cl 35.46
31 Ga 69.72	32 Ge 72.60	33 As 74.91	34 Se 78.96	35 Br 79.92
29 Cu 63.54	30 Zn 65.38	31 Ga 69.72	32 Ge 72.60	
47 Ag 107.88	48 Cd 112.41	49 In 114.82	50 Sn 118.71	





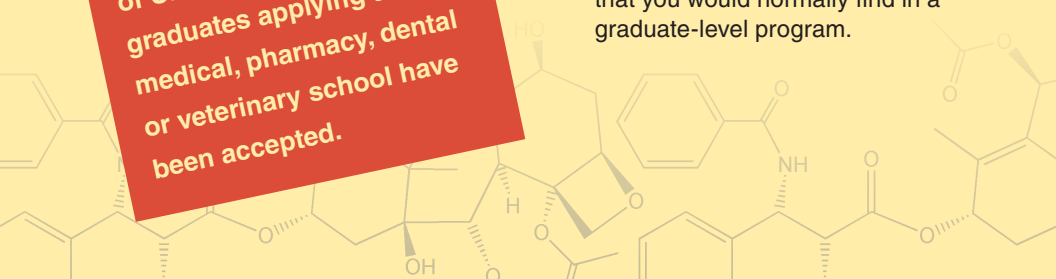
Why Chemistry?

- ➔ You enjoy problem solving.
- ➔ You want to learn about how the world works—at the molecular level.
- ➔ Chemistry provides excellent preparation for graduate and professional schools like medical, pharmacy, dental, veterinary, law, etc.
- ➔ Chemistry is an employment area of national need, and bachelor's degree-educated chemists in the South Atlantic region earn a median base salary of \$65,000 per year. (American Chemical Society Salary Survey, Fall 2009)

Since 2001, more than **95 percent** of UNC Asheville Chemistry graduates applying to medical, pharmacy, dental or veterinary school have been accepted.

fast facts

- ➔ UNC Asheville offers specialized bachelor's degrees in both chemistry and biochemistry.
- ➔ The department is accredited by the American Chemical Society (ACS).
- ➔ All courses and labs are taught only by UNC Asheville faculty, not by teaching assistants.
- ➔ You'll receive an excellent and financially accessible education. UNC Asheville students average less debt upon graduation than their peers from other universities.
- ➔ Students learn interdisciplinary chemistry through hands-on undergraduate research projects that you would normally find in a graduate-level program.





UNC Asheville: Ahead of its Class

personal touch

You are a person, not just another student in the classroom. Our Chemistry Department prides itself on having a uniquely student-centered curriculum. Courses and labs here are only taught by UNC Asheville faculty—not by teaching assistants. We aim to develop meaningful faculty-student interaction through courses, laboratories, mentoring and undergraduate research. The department's faculty, staff, students and alumni are like a family. You will get to know us, we will get to know you, and we will ensure that you receive a top-notch education in chemistry.

The Chemistry Department is housed in **Zeis Hall**, a new \$32 million Biology, Chemistry and New Media building with new teaching laboratories designed for collaborative learning.

enter a student, graduate a scientist

Students will learn how to be scientists, including:

- ➔ understanding the interdisciplinary nature of science
- ➔ solving research problems—from the atomic level to the Earth's environment
- ➔ analyzing and interpreting data to expand chemical understanding
- ➔ analyzing molecular structures and reactions experimentally and computationally
- ➔ understanding the use, function and design of chemical instrumentation



Chemistry Scholarships

Chemistry Scholars program

With a grant from the National Science Foundation (Division of Undergraduate Education), our department has established the Chemistry Scholars Program, which includes:



→ Comprehensive Educational Support for Chemistry Majors

Educational support starts at the beginning of freshman year and includes faculty and peer mentoring programs, supplemental course support, field trips, luncheons and seminars, funded undergraduate research fellowships, and professional development to help you be successful in your chemistry career after graduation.

→ Scholarships for Chemistry Majors

Scholarships are for students with both academic merit and financial need and can fund up to 100 percent of a student's demonstrated need. Scholarships are renewable for up to four years.

Learn more about the Chemistry Scholars Program and scholarships available:

chemistry.unca.edu/chemistryscholars

“UNC Asheville's Chemistry Department is a place for individuals who want a personal and lasting education in chemistry. You won't find a single class taught by a teaching assistant, but rather a faculty member who will not hesitate to bend over backwards in order to facilitate student learning.”

—BEN MCDONALD '12



Undergraduate Research

engaged learning & problem solving

The strength of our Chemistry curriculum comes from UNC Asheville's nationally recognized undergraduate research program.

Students learn through research in many courses starting from the beginning of their freshman year, and all Chemistry majors conduct at least four semesters of undergraduate research.

Undergraduate research is one of the best educational tools in our department to transform students into chemists.

Students pursuing the Chemistry major are involved in real-world research that could include synthesis of molecules to treat cancer; atmospheric chemical reactions and the breakdown of small molecules; materials science, nanomaterials and nanotechnology; protein-protein and

protein-drug interactions relevant to cancer and human disease; and sustainable energy generation.

In addition to providing hands-on experience using chemical equipment, instrumentation and theoretical software, undergraduate research solidifies the classroom curriculum through use and practice, and expands students' critical thinking and scientific writing skills to a very high level.

“The program is extremely rigorous and places a strong emphasis on undergraduate research, adding a wonderfully fascinating dimension to the college experience.”

—KYLE CAVAGNINI '14

25	Mn	Fe	Co	Ni	Cu	Zn	30	As	Se	Br
54.94	55.85	58.94	58.71	63.54	65.38	69.72	72.60	74.91	78.96	79.92
43	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te
(98)	101.10	102.91	106.40	107.88	112.41	114.82	118.70	121.76	127.61	126.91

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Hands-On Education



UNC Asheville gives students hands-on opportunities to use chemical equipment, instrumentation and theoretical software including:

- Atomic Absorption Spectrophotometer
- Electrophoresis
- Fourier-Transform Infrared Spectrometer (with attenuated total reflectance and transmittance options)
- Gas Chromatograph
- Gas Chromatograph-Mass Spectrometers
- Ion-Exchange Chromatograph

- Mössbauer Spectrometers
- High-Field Nuclear Magnetic Resonance Spectrometer
- PCR (Polymerase Chain Reaction) Facilities
- Scanning Electron Microscope
- Tissue culture and storage facilities including Refrigerated Ultracentrifuges and Confocal Tissue Culture Microscope
- Ultraviolet-Visible Spectrophotometers
- X-Ray Diffractometer
- 64-node Parallel Quantum Solutions QuantumStation
- 40-node Apple X-Serve cluster

“When I leave UNC Asheville, I know I will be prepared for whatever field I go into.”
— LYLE LAWRENCE '12