



**“When I started  
doing chemistry,  
I did it the way  
I fished—for  
the excitement,  
the discovery,  
the adventure...”**

**—Barry Sharpless, Nobel Prize in  
Chemistry, 2001**

## Degree Programs

- **Bachelor of Science in Chemistry**
- **Bachelor of Science in Chemistry**  
Emphasis in pre-professional health
- **Extended Bachelor of Science in Chemistry**
- **Extended Bachelor of Science in Chemistry**  
Emphases in preforensic chemistry and criminalistics, or pre-professional health
- **Extended Bachelor of Science in Chemistry\***
- **Extended Bachelor of Science in Environmental Chemistry\***
- **Extended Bachelor of Science in Biochemistry\***
- **Extended Bachelor of Science in Geochemistry**
- **Extended Bachelor of Science in Education, Chemistry**
- **Minor in Chemistry**
- **Minor in Chemistry Education**

\* Certified by American Chemical Society

## Career Opportunities

Study to become an . . .	Begin your career in an . . .
Analytical chemist	Agricultural department
Associate chemist	Chemical company
Clinical technician	College or university
Dentist*	Government agency
Laboratory technician	Food company
Physician*	Pharmaceutical company
Quality-control technician	Mining company
Technical sales representative	Petroleum refinery
Veterinarian*	

\*Further study required

If you're excited by the possibilities in test tubes and eager to find adventure in the laboratory, then discover chemistry and biochemistry.

Chemistry deals with the basic laws of the physical world and the composition and properties of matter. Advances in computer technology, pharmaceuticals, space exploration, and medicine all have roots in the chemical sciences. Demand for well-trained technicians and researchers is rising. Our programs prepare you for careers in industry (about 75 percent of chemists are employed privately), pure science, or in the health-care professions. Many students prepare for medical, dental, or veterinary school with a chemistry or biochemistry major.

We stress the value of undergraduate research and independent study. You will also find many opportunities to work on faculty research projects. In recent years we have added emphasis in environmental chemistry and biochemistry to the traditional fields of analytical, inorganic, organic, and physical chemistry. We also provide opportunities in archaeological chemistry, immunochemistry, exercise biochemistry, forensic chemistry, chemical physics, and geochemistry.

**“What matters to me is being able to learn so much. I’ve always been a serious student, but here I feel like other people care about what I’m learning as much as I do.”**

*Zeina Ziade, Chemistry, Class of 2007*

## Explore Courses that Jump-start Your Career

### Unravel the chemistry of life

Every living thing—including us—is made of chemicals; processes like digestion, muscular activity, and even thought, depend on chemical reactions. In our **Fundamental Biochemistry** course, you will study the most biologically important compounds and their functions and metabolism in living cells. The lab portion introduces modern qualitative and quantitative biochemical techniques.

### Write more than equations and formulas

Each profession has its own specialized language. The **Write like a Chemist** project, developed at the university and sponsored by the National Science Foundation, will teach you to communicate proficiently as a career chemist. This junior-level course focuses on writing in three critical genres—the journal article, the scientific poster, and the research proposal.

### Study natural systems at the molecular level

The environment changes constantly. Gain a better understanding of the processes that shape the world around us in our **Environmental Chemistry** course. You'll receive a rigorous introduction to the chemistry of natural systems, including oxidation and reduction, complex chemical equilibrium, element cycling, and atmospheric chemistry.

## Experience the Work World

Make professional connections and gain real-world experience through internships and faculty research projects in both the laboratory and the field. Opportunities for undergraduate research exist in the Grand Canyon, on the Navajo Nation, and in nearby Oak Creek Canyon.

Preforensic chemistry students complete a required one-semester internship—usually in the Maricopa County Medical Examiner's Office, Northern Arizona Drug Testing Laboratory in Flagstaff, or crime labs at the Phoenix Police Department or Arizona Department of Public Safety.

## Study Abroad

Study for a summer, a semester, or an academic year in universities around the globe. The university has cooperative agreements with institutions in Australia, Canada, France, Germany, Ghana, India, Ireland, Malta, New Zealand, Norway, Scotland, and the United Kingdom. We provide international education opportunities to all academically qualified students. Start your travel planning with a visit to [nau.edu/international](http://nau.edu/international).

## Participate!

Make professional connections and provide community service in the **Student Affiliates of the American Chemical Society**. Members work with grade-school students on science projects and help conduct the annual Chemistry Challenge Competition for area high-school students. Join your peers in **Alpha Chi Sigma**, the national chemistry fraternity, to make friends and promote chemistry in the community with events like chemistry “magic shows.”

## Finish in Four

Stay on a four-year track to your degree and save money in the process. The university guarantees that you will have the courses you'll need to graduate on time. It's your responsibility to talk to an advisor early. All degree programs are eligible except BS in Education. Visit [nau.edu/finishinfour](http://nau.edu/finishinfour).

