Love your major | Chemistry

UNIVERSITY OF NEBRASKA AT OMAHA
ARTS & SCIENCES

Chemistry is everywhere in the world around you: the food you eat, the clothes you wear, the water you drink, the medicines you take, and cleaners you use. In fact, Chemistry is sometimes called the "central science" because it is fundamental to pharmacy, medicine, biology, neuroscience and environmental science

In the Department of Chemistry at UNO, the coursework is rigorous and faculty have high expectations but are readily accessible. We care for the success of our students and our colleagues.

Chemistry is a laboratory-based science. We strive to provide a safe environment for students to learn the techniques and problem-solving skills which are fundamental experiences for their future careers.

If you are looking to make a difference as a future chemist, physician, dentist, pharmacist, research scientist or lab manager, join us in Chemistry.

Course Highlights in Chemistry:

- Biochemistry; Biochemistry of Metabolism
- Environmental Chemistry
- Essentials of Medicinal Chemistry
- Introduction to Molecular Modeling
- Instrumental Analysis & Lab
- Polymer Chemistry
- Solid State Inorganic Chemistry
- Chemistry Internship

Knowledge & Skills gained as a Chemistry major:

Knowledge:

- Students learn to appreciate the world on the macro-scale, such as synthesis of medicine, plastics or biomolecules, while learning the underlying principles occuring on the molecular level
- Gain an understanding of how to collect, organize and intrepert chemical data

Skills:

- Students learn to use sophisticated instrumentation and equipment to investigate the world around them
- Students learn to critically analyze chemical information, synthesize the information, and present the information to a technical audience
- Chemistry majors become adept in laboratory work and data analysis
- Chemistry majors apply the principles of chemistry to solve qualitative and quantitative problems

Chemistry Major at a glance:

Number of majors: 115

Degrees offered: B.A., B.S.

Concentrations: Yes (Medicinal, Education, BSPS)

Credit hours needed: 36 - 42

Minors offered: Yes (18 credits)

Love your major | Chemistry

UNIVERSITY OF NEBRASKA AT OMAHA
ARTS & SCIENCES

Career Opportunities:

By nature, Liberal Arts majors make great employees in any field because of their ability to communicate effectively, think critically and solve complex problems. These timeless skills make them attractive to employers in a variety of professions. Specifically though, Chemistry majors often pursue careers as:

- Lab Chemist in Research & Development
- Lab Manager in Quality Control/Waste Management
- Research Technician in Environmental Protection
- Chemical sales and service representative
- Pharmacist*
- Professor*
- Quality Assurance Specialist
- Research Technician
- Medical Professional*

*Advanced Degree Required

When the Chemistry major is matched with complementary minors and thoughtful internships, new possibilities arise. A few examples are:

- **Chemistry** + Business minor = Sales, management or consulting in industry
- **Chemistry** + Sustainability minor = Environmental, Water, Petroleum industries
- **Chemistry** + Forensics = Forensic Chemistry
- **Chemistry** + Marketing minor = Pharmaceutical sales
- **Chemistry** + English minor = Technical or Science writing

Student Opportunities:

- Undergraduate research opportunities; synthesizing potential drugs, studying aerosols in the atmosphere and more
- Chemistry Club - For fun, friendship and leadership development
- Pre-Pharmacy Club
- Pre-Health Club
- Internships
- Chemistry Field Day and other events
- Scholarships for chemistry majors

Did you know?

The only elements that are liquid at room temperature are bromine and mercury. However, you can melt gallium by holding a lump in the warmth of your hand.

For more information:

For program information, contacts and course requirements visit:

www.unomaha.edu//chemistry/

Dr. William Tapprich, Interim Chair
402.554.3380
wtapprich@unomaha.edu

University of Nebraska Omaha