

COLLEGE OF NATURAL AND SOCIAL SCIENCES

CHEMISTRY

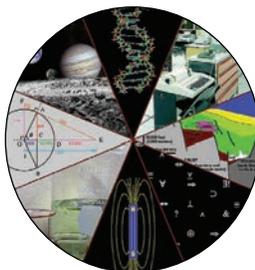


CHEMISTRY COMPREHENSIVE

Emphasis: Biochemistry

The faculty in the University of Nebraska at Kearney Department of Chemistry believe in a “hands-on” science experience. In the program students are provided with the best laboratory experience possible through access to state-of-the-art equipment and participation in active undergraduate research programs. The program is appropriate for many students planning a pharmacy, medical or dental health career.

Majors will learn modern laboratory techniques from expert professors, receive hands-on training with instruments chemists use every day, and benefit from research opportunities leading to presenting and publishing results. This major includes 12 hours of biology courses. This degree is certified by the American Chemical Society.



Personal traits for chemistry success

- Loves chemistry, biology and math
- Asks questions
- Uses logical reasoning
- Pays attention to details
- Perseveres
- Solves problems
- Communicates well
- Knows fundamental computer skills
- Works independently and collaborates

Did you know?

Student-faculty relationships are a focal point of the UNK experience.

Faculty interact on a personal basis with students as teachers, advisors, mentors and friends both inside and outside the classroom, and from your freshman year to graduation and beyond.

Alumni profile

“Acceptance into medical school is no small feat, and I could not have done it on my own,” said Sean Nelson, a first-year medical student at UNMC College of Medicine in Omaha.

Nelson says admission boards look beyond grades and intelligence as the only criteria of a caring physician. “Opportunities such as becoming a resident advisor, research opportunities within my department, and support of faculty and staff made (acceptance) possible.”

The pre-med student chose UNK for its prestige as an NU school, smaller

size and close-to-home location. “I was also able to get to know the faculty, which is extremely important for mentoring, research opportunities and letters of recommendation.”

After graduating in 2014 with a chemistry comprehensive major biochemistry emphasis, Nelson gained a strong science background needed for medical school and is specializing in primary care.



SEAN NELSON

Reasons to study chemistry at UNK

- The 11 chemistry faculty members have expertise in each of the major areas of chemistry (analytical, biochemistry, inorganic, organic and physical).
- Students can establish relationships with faculty members through classes, research and projects.
- Majors are encouraged to work with a faculty member in “hands-on training” doing chemistry undergraduate research.
- Learning chemistry is fun and useful in modern facilities using advanced equipment and instrumentation.

CHEMISTRY COMPREHENSIVE Bachelor of Science

Emphasis: BIOCHEMISTRY

FOUR YEAR CLASS SCHEDULE

The schedule is a guideline for progress toward a degree. Consult with your academic advisor.

<p>Semester 1 (15 credits)</p> <p>CHEM 160/160L General Chemistry MATH 115 Portal 188 (your choice) ENG 101 English Composition</p>	<p>Semester 2 (16 credits)</p> <p>CHEM 161/161L General Chemistry MATH 202 ENG 102 Writing & Research BIOL</p>
<p>Semester 3 (15 credits)</p> <p>CHEM 360/360L Organic Chemistry CHEM 269 Sophomore Seminar in Chem PHYS 275/275L General Physics I BIOL</p>	<p>Semester 4 (17 credits)</p> <p>CHEM 361/361L General Chemistry CHEM 301/301L Analytical Chemistry PHYS 276/276L General Physics II General Studies Oral Communication</p>
<p>Semester 5 (16 credits)</p> <p>CHEM 351/351L Biochemistry CHEM 430/430L Inorganic Chemistry CHEM 369 Junior Seminar in Chemistry CHEM 499L General Studies Democracy General Studies Dist</p>	<p>Semester 6 (15 credits)</p> <p>CHEM/ 352/352L Biochemistry II CHEM 499 L BIOL General Studies Dist General Studies Dist</p>
<p>Semester 7 (15 credits)</p> <p>CHEM 480/480L Physical Chemistry CHEM 451 CHEM 469 Senior Seminar in Chemistry General Studies Dist General Studies Dist</p>	<p>Semester 8 (12 credits)</p> <p>Electives Electives CHEM elective Capstone 388 (your choice)</p>

UNK Chemistry Club

Students will be exposed to:

- Different fields in chemistry
- Cutting-edge jobs as they become available
- Visits from world-renowned chemistry educators that include demonstrations
- Plenty of pizza

Research apprentice program

Many faculty in the chemistry department have continuing research projects that involve students. A small stipend is paid to freshman and sophomore chemistry majors when they first join a project.

Scholarships available

- DeeAnna Delaet Endowed Scholarship
- Donald E. Fox Scholarship
- Donald L. Liehs Scholarship Endowment
- Dr. Mary L. Morse Memorial Scholarship

F.Y.I – For your information

High school students thinking about studying chemistry in college should take courses in all science disciplines, like chemistry, physics and biology, as well as math. This will provide a foundation for their college coursework.

UNK chemistry graduates are employed as doctors, dentists, pharmacists, university professors, middle and high school science teachers, research and industrial chemists, environmental scientists, and salespeople, as well as in other science and technology fields.

YOU CAN BE PART OF THE UNK EXPERIENCE

For more information, contact:

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