

COLLEGE OF NATURAL AND SOCIAL SCIENCES

CHEMISTRY

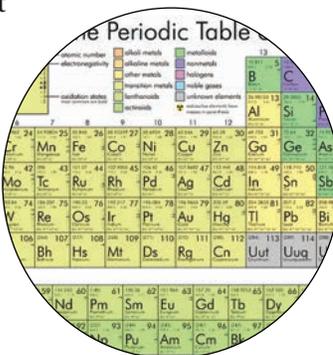


CHEMISTRY 7-12 TEACHING SUBJECT ENDORSEMENT

Bachelor of Science in Education

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.

After completing the requirements, a graduate will be qualified to teach chemistry in grades 7-12 at middle or high school systems or can pursue an advanced academic degree. Education degrees are a cornerstone of UNK, therefore, it has always had an excellent reputation for producing Nebraska's top teachers.



Personal traits for success in this major

- Expresses enthusiasm in subject
- Pays attention to details
- Asks questions
- Solves problems
- Uses logical reasoning
- Communicates well

...and within a classroom setting

- Loves being around others
- Applies classroom management skills
- Thinks creatively
- Uses effective discipline skills
- Implements learning strategies
- Promotes positive behavior

Alumni profile

Justin Buchanan grew up in a home surrounded by teachers where both of his parents taught school. From that influence, he found out that he enjoys teaching also.

Buchanan says doors opened quickly once he graduated. He graduated from college in 2013 with two bachelors of science – subject endorsements in chemistry 7-12 and biology 7-12. He also earned a bachelor of arts degree in chemistry and a minor in biology.



**JUSTIN
BUCHANAN**

“I was offered a high school position teaching science, but declined to go to graduate school. I want to be a college professor.”

As an undergraduate at UNK, “the teachers were often good role models for the kind of professor that I want to be,” Buchanan said. “They were very open to communication outside of class to answer questions.”

Buchanan is in graduate school at the University of Nebraska-Lincoln studying biological science. Looking back on his college years, Buchanan says he gained practical teaching experience as a student at UNK.

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 research.
- Learning chemistry is fun and useful in modern facilities using advanced equipment and instrumentation.

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FOUR YEAR CLASS SCHEDULE

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

<p>Semester 1 (16 credits)</p> <p>CHEM 160/160L General Chemistry Portal 188 (your choice) TE 100 PSCI 110 SPCH 100</p>	<p>Semester 2 (16 credits)</p> <p>CHEM 161/161L General Chemistry MATH 115 PHYS 201 ENG 101 English Composition</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 TE 204</p>	<p>Semester 4 (17 credits)</p> <p>CHEM 301/301L Analytical Chemistry BIOL 105 or 106 ENG 102 Writing & Research TE 206 General Studies Dist</p>
<p>Semester 5 (16 credits)</p> <p>CHEM 480/480L Physical Chemistry BIOL/PHYS 471 TE 306 PE 150 General Studies Dist</p>	<p>Semester 6 (14 credits)</p> <p>CHEM 351/351L Biochemistry TE 319 TE 320 General Studies Dist Electives</p>
<p>Semester 7 (15 credits)</p> <p>Electives Electives Electives Capstone 388 (your choice) General Studies Dist</p>	<p>Semester 8 (12 credits)</p> <p>TE 400 Student Teaching</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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darveusa@unk.edu

STUDENT PROFILE – Anthony La Rosa



"I chose UNK because historically it's a great teaching college with a strong science department and access to quality labs and instrumentation in the research rooms. The faculty does a great job of working with students during and after office hours and guiding students through their academic career and on to the next level."

Major: 7-12 education, chemistry AND biology subject endorsements
Hometown: Plattsmouth, Neb. Graduation: spring 2015