



### A Catalyst for Your Career

UNC's Master of Science in Chemistry: Research extends and builds upon the knowledge and skills learned at the undergraduate level. Students are exposed to advanced theories and practices in analytical, biochemistry, inorganic, organic, and physical chemistry. The specific program of study is tailored to meet the needs of each student. Students within the program work closely with faculty both in the laboratory and in the classroom. Hands-on intensive

experiences in the research laboratory help build the skills needed for a successful career in industry, government, or academia. At UNC we are a faculty who pride ourselves on how we work with students in the classroom, the laboratory and outside of the academic setting. We believe in providing each of our students with a high-quality educational experience that integrates the knowledge and understanding of chemistry with hands-on training and use of modern instrumentation.

### Career Pathway

An M.S. in Chemistry with the Research Emphasis qualifies you for immediately beginning your career in industrial, nonprofit or government agencies. The skills you obtain are well suited to a career in the chemical, cosmetic, petroleum, pharmaceutical, environmental and food industries.

This degree builds your chemistry understanding and laboratory skills so that you are also well qualified for continuing your education via a doctoral program in Chemistry or Biochemistry.

### Degree Options

Depending on your interests and career goals, you can choose either a thesis or non-thesis option for your master's degree in Chemistry: Research. Both degrees provide you with a rigorous foundation in teaching, lab skills and academic writing.

- Thesis - students write and defend a thesis based on their research
- Non-Thesis - students complete coursework and a project in their field

### Program Details

- Greeley Campus Delivery
- Credits Required: 30
- Time to Completion: three to four semesters
- Classes Start: Fall semester

## Related Programs

- Chemistry: Education, M.S.
- Biological Sciences, M.S.
- Biological Education, Ph. D.
- Chemical Education, Ph.D.

## Cost and Value

Tuition rates are based on the 2021-22 Academic Year:

Colorado Resident Tuition: \$649 per credit hour plus fees.

Nonresident Tuition: \$1,217 per credit hour plus fees.

UNC is regularly called out as a top value for both resident and nonresident students, and the university offers financial aid packages for qualified students. For more information, visit [UNCO.EDU/COSTS](https://unco.edu/costs).

## What Students Say

"My experience with hands-on research and teaching really accelerated my career. My research project with Dr. Michael Mosher was tailored to my needs and the coursework that I took was relevant to my future in chemistry. In fact, each of the faculty members in the department were interested in my progress and helped me succeed."

-Sean Johnson, Chemistry: Research, 2016.

## Financing your Education

UNC offers a variety of financial support options, including:

- The Department of Chemistry and Biochemistry offers competitive assistantships to well-qualified candidates. These assistantships are typically assigned for teaching undergraduate laboratories, but assistantships for research and administrative work are also available.
- Limited scholarships and grant funding in support of graduate research are also available.
- Colorado resident tuition for students from 15 western states is offered through the Western Regional Graduate Program. To see if you qualify visit [UNCO.EDU/GRADUATE-SCHOOL/FUNDING/WESTERN-REGIONAL-GRADUATE-PROGRAM.ASPX](https://unco.edu/graduate-school/funding/western-regional-graduate-program.aspx).
- For more information contact Financial Aid at [UNCO.EDU/OFA](https://unco.edu/ofa).

## Faculty Spotlight

### Murielle Watzky, PhD.

Dr. Watzky's group is interested in silver nanoparticles. Silver has been known since Antiquity to exhibit antimicrobial properties, and silver nanoparticles are now widely used in everyday items such as anti-odor clothing and appliances lining. Her group takes advantage of the optical and electrochemical properties of these noble metal nanoparticles to gain a better understanding of the mechanisms involved in their antimicrobial action.

## Program Contact

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## About UNC Graduate School

The University of Northern Colorado, founded in 1889, is Colorado's right-sized doctoral research university, serving a diverse student body around the world. Given its size, program mix, and mission, UNC offers students the access and opportunities of a small college along with the nationally recognized programs, research funding and facilities that come with being a leading U.S. university. Students seeking preparation for a world (and workplace) full of opportunities and options, complexities and cultures, diversity and demands, will find faculty mentors and excited fellow students to engage with here at UNC.



**UNC**

UNIVERSITY OF NORTHERN COLORADO

Graduate School

[UNCO.EDU/GRADUATE-SCHOOL](https://unco.edu/graduate-school)