



DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY



ABOUT US MSU Denver Chemistry & Biochemistry faculty members are experts in all fields of chemistry and have a passion for education, continuing their research alongside the students enrolled in their classes. With a degree in chemistry or biochemistry, your education starts with our classes, but it doesn't end there. Join us in the challenging learning environment we love.



STUDENT OPPORTUNITIES Students are at the core of department research, and student researchers are involved in all the major areas of chemistry and biochemistry, performing experiments, analyzing data, and publishing and presenting their work at the national level. Other programs may teach about chemistry—with us you can become a scientist in the scientific community.



WHAT MAKES US SPECIAL With a focus on getting students hands-on experience with the instrumentation used in industry, academia, and medicine, our teaching and research labs are well-equipped with over \$3,000,000 of analytical and characterization instruments. From LC-MS to NMR, our labs give meaningful and transferable training.



INDUSTRY CAREERS Our students find success in the chemical and biomedical industries. Graduates enter the workforce as analytical lab technicians, forensic scientists, food chemists, materials researchers, and more. Some pursue further education and become pharmaceutical chemists, medical doctors, and professors.

STUDENT QUOTE

"After consistently witnessing the lack of basic resources in places like Kenya and Bolivia, I returned to school to study biochemistry with the intent to pursue a career in renewable energy."

— **Leah Ford**, Biochemistry B.S., research technician at National Renewable Energy Laboratory



CONTACT US

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CHEMISTRY AND BIOCHEMISTRY

Experiential Major Map



MSU
DENVER

Bachelor of Arts Bachelor of Science

COLLEGE OF LETTERS,
ARTS AND SCIENCES

First Year

Middle Years

Last Year

Cultivate Learning & Academic Excellence

- Attend Orientation and register for classes
- Meet with your academic advisor to map out your course journey
- Complete scholarship financial aid application
- Declare your major

- Consider adding a minor or pursuing the Quality in the Chemical Industry Certificate
- Check your Degree Progress Report and meet with your advisor

- Work with an advisor to ensure you have no outstanding course requirements
- Complete your senior experience course
- Apply to graduate

Engage

Globally and Locally

- Speak with professors about opportunities within your department
- Utilize resources such as free tutoring, STEM Center, and TA support
- Join a student organization
- Speak with a professor about research opportunities in your department
- Consider applying to be a teaching assistant
- Attend seminars and special events hosted by the department

- Integrate electives that will strengthen preparation for your post-graduate career goals.
- Participate in outreach events
- Practice your leadership skills

Prepare

for Postgraduation
Success

- Check out on-campus and career aligned internships and jobs on Career Link
- Begin to develop and explore a career pathway with your faculty advisors

- Attend C2 Hub events for professional development and networking opportunities
- Pursue an internship or summer research experiences

- Attend alumni and campus-wide networking events
- Build your resume, highlighting learned skills, techniques, and experiences

Academic Success Checklist

- ☐ Discover library resources
- ☐ Book an appointment with your academic advisor
- ☐ Visit the writing and tutoring center
- ☐ Complete FASFA and academic scholarship applications

Graduates have
pursued PhDs at Yale, the
Ohio State University,
CU Denver Anschutz
Medical, and many other
prestigious universities

Career Development Checklist

- ☐ Update your resume early & often
- ☐ Drop into the C2 Hub's Career Lab
- ☐ Secure an internship or career aligned part time job to develop essential skills for graduation

Career Information

What skills do employers want?

- Work in a team
- Solve problems and make decisions
- Design and interpret experiments and data
- Present to a variety of audiences
- Lead and influence others

This major gives me the skills to:

- Research and simplify large amounts of technical material
- Solve scientific problems and create solutions to pressing problems
- Explain and explore the meaning and impact of data

What careers can I pursue?

- Analytical lab technicians
- Pharmaceutical lead chemists
- Forensic scientists
- Food chemists
- Materials researchers
- Medical doctors



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