



COLLEGE OF ARTS & SCIENCES

CHEMISTRY

Chemistry is the study of matter, its properties and the changes it undergoes. Students pursuing an undergraduate degree in Chemistry **develop a strong foundation in modern chemical science**, preparing them for success in a wide range of careers and graduate and professional studies.

DEPARTMENT STRENGTHS

- **ACS Certification.** Students can choose to earn a Bachelor of Science in Chemistry, certified by the American Chemical Society.
- **Flexible Options.** In addition to the BS and BSCh degree options, students can work toward a Master's degree in the Accelerated BS/MS program.
- **Hands-On Learning.** The department offers numerous research and internship opportunities for undergraduate students.

SAMPLE CURRICULUM

Core Courses*

- MATH 1910 Calculus I
- CHEM 1110/1111 General Chemistry I & Lab
- CHEM 1120/1121 General Chemistry II & Lab
- CHEM 3111 Fdns. of Inorganic Chemistry
- CHEM 3201/3211 Fdns. of Analytical Chemistry & Lab
- CHEM 3301/3311 General Organic Chemistry I & Lab
- CHEM 3302/3312 General Organic Chemistry II & Lab
- CHEM 3411 Fdns. of Physical Chemistry
- CHEM 4999 Senior Survey
- PHYS 2010/2011 General Physics I & Lab
- PHYS 2020/2021 General Physics II & Lab
- PHIL 3512 Science, Tech & Human Values

DEGREE OPTIONS

- BS in Chemistry
 - Biochemistry
 - Environmental Chemistry
 - Forensic Chemistry
 - Honors in Chemistry
- BSCh in Chemistry
 - Biochemistry
- Minor in Chemistry
- Accelerated BS/MS in Chemistry
- MS in Chemistry**
 - Biochemistry
- PhD in Chemistry
 - Biochemistry

RESEARCH & FACILITIES

- Internal Research Institutes
 - MAMML Laboratory
 - CROMIUM Institute
 - CRISTAL Center
 - INDIUM Institute
- Additional Facilities
 - Biomaterials Lab
 - Biosurface Center
 - FedEx Institute of Technology
 - Integrated Microscopy Center

CHEMISTRY

MAJOR FACT SHEET

BY THE NUMBERS (Spring 2024)

Student Enrollment



Number of Minors

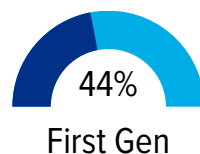
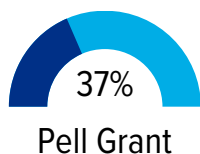
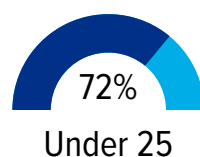
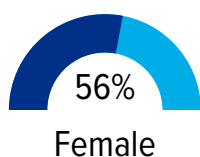


WHO YOU ARE

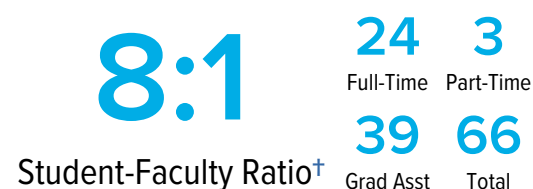
Personality

- Analytical
- Dependable
- Inquisitive
- Observant
- Persistent
- Self-Sufficient

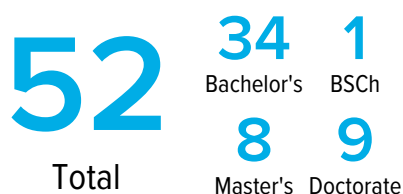
Student Demographics



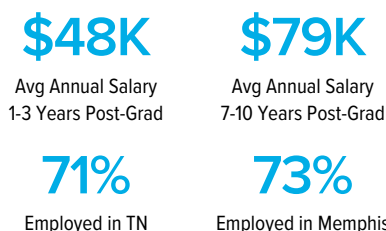
Faculty Employed



Degrees Awarded



Career Outcomes[‡]



TN Employment Outlook



Interests & Hobbies

- Cooking & Baking
- Botany
- DIY & Handicraft
- Gems & Minerals
- Painting
- Woodworking / Metalworking

WHAT YOU'LL LEARN

Core Skills

- Analytical Techniques
- Data & Statistical Analysis
- Lab Equipment & Techniques
- Method Development
- Programming Languages
- Technical Report Writing

Transferable Skills

- Collaboration
- Critical Thinking
- Organization
- Problem Solving
- Time Management
- Written & Oral Communication

CAREER OPTIONS

Job Titles

- Analytical Chemist
- Biomedical Researcher
- Chemical Engineer
- Food Scientist
- Forensic Scientist
- Geochemist
- Nanotechnologist
- Patent Agent
- Process Chemist
- Toxicologist

Industries

- Education
- Government
- Healthcare
- Manufacturing
- Research

^{*} The specified courses are for example purposes only. It is not a complete list of core courses.
^{**} Online degree options are available for the specified programs through UofM Global.

[†] Calculated based on the number of student majors and the number of full-time faculty.
[‡] Based on self-reported post-graduation outcomes of UofM students who have earned a Bachelor's degree in the last ten years.