

CHEMISTRY

Program

UW-Superior offers a challenging major in chemistry that provides students with several options depending on their career goals. Students majoring in chemistry may seek jobs as professional chemists or teachers after they graduate, pursue advanced degrees in graduate school, or use their degree as the foundation for attending medical or veterinary school. The one-on-one attention students receive provides the opportunity to develop deeper scientific insights, sharpen their independent-thinking skills, and gains hands-on experience.

Students completing the 54-credit chemistry major are well prepared to seek entry-level jobs as professional chemists or to pursue graduate school or medical school. The major emphasizes chemistry but also includes courses in mathematics and physics.

Students interested in careers or advanced study in biochemistry can complete the chemistry major while selecting courses that cover the topics recommended for study by the American Society for Biochemistry and Molecular Biology (<http://www.asbmb.org/>).

Graduates of the chemistry program work at companies such as 3M (<http://www.3m.com/>), Intel (<http://www.intel.com/content/www/us/en/homepage.html>), Dow (<http://www.dow.com/en-us/>), PotlatchDeltic (<http://www.potlatchdeltic.com/>), Pfizer, Inc (<http://www.pfizer.com/>), and Murphy Oil Corporation (<http://www.murphyoilcorp.com/>). Others have gone on to graduate or medical schools such as the University of Wisconsin-Madison (<http://www.wisc.edu/>), Medical College of Wisconsin (<http://www.mcw.edu/>), Marquette University (<http://www.marquette.edu/>), University of Illinois (<http://www.uillinois.edu/>), Purdue University (<http://www.purdue.edu/>), University of Minnesota (<http://twin-cities.umn.edu/>) and North Dakota State University (<http://www.ndsu.edu/>).

Programs

- Chemistry Major (Comprehensive)
- Chemistry Major (Non-Comprehensive)
- Chemistry Major - Pre-Medicine/Pre-Pharmacy (Biochemistry) Concentration (Comprehensive)
- Chemistry Major and Chemical Engineering Dual Degree (Comprehensive)
- Chemistry Minor

Student Learning Outcomes

- Demonstrate command of facts, theories, and concepts of chemistry/physics, and ability to use this knowledge for problem solving and the development and understanding of higher-level concepts.
- Utilize a variety of sources to access scientific information and critically evaluate which sources are most reliable and useful for a particular application.
- Understand and follow a written, abbreviated experimental procedure as well as make modifications to the procedure and troubleshoot the procedure if unexpected results occur.
- Apply knowledge and skills gained from lecture and laboratory courses to independently create a plan for an experiment or project.
- Read and evaluate a set of original research papers in order to create their own critical analysis presented in written and oral form.

Faculty

Peter Cook, Professor

James W. Lane, Professor

Lorena M. Rios Mendoza, Professor

Michael A. Waxman, Professor