Biochemistry/Molecular Biology

If you love biology and chemistry then biochemistry/molecular biology (B/MB) might be the major for you. B/MB involves the study of life processes at the molecular level. Students study how molecules such as DNA and proteins control our heredity, development, aging and mental activity, and how abnormalities in these molecules can lead to diseases such as cancer.

Major

Comprehensive major (no minor required)
- Biochemistry/Molecular Biology

Where you'll find our grads
- Laboratory Technologist, Medical College of WI, Milwaukee, WI
- Assistant Scientist, PDD, Inc., Middleton, WI
- Medical Student, UW-Madison Medical School, Madison, WI
- Scientist, Boston Scientific, Minneapolis, MN
- Nephrologist/Transplant Physician, Mayo Clinic Health System, Eau Claire, WI
- Graduate School, Ph.D., Molecular Genetics, Ohio State University, Columbus, OH**

Prepared for Success

Typical biochemistry/molecular biology grads diagnose and treat human diseases and develop new therapeutic agents in the medical or pharmaceutical fields; conduct research in biotechnology firms, pharmaceutical companies, universities, government agencies, foundation laboratories, hospitals or clinics; work in sales and purchasing or marketing and marketing research for a scientific manufacturing company; teach chemistry and/ or biology in secondary schools, or obtain a doctorate degree to be eligible for research/teaching positions at universities, foundations and clinics.

To learn more about health careers, students can utilize the Health Careers Center, where they will find advising resources, workshop information, program materials and course information to help them prepare for a biomedical graduate program or health professional program.

Why UW-Eau Claire

Scholarships

Several UW-Eau Claire students have received the prestigious Barry M. Goldwater Scholarship. The Goldwater Scholarship is considered to be the premier undergraduate award of its type in the United States in the field of mathematics, the natural sciences and engineering. Goldwater scholars receive scholarships that cover the cost of undergraduate tuition, fees and room and board up to $7,500 for one or two years.

Research Opportunities

Fully equipped laboratories are available for teaching and research in biotechnology genetics, recombinant DNA techniques, plant and animal physiology, microbiology, biochemistry, organic chemistry and physical chemistry. Students receive experience in problem-solving and in modern techniques, experimental design and data analysis. Through our student/ faculty collaborative research program, students participate in fascinating research projects while working one-on-one with a professor in their field and gaining in-depth knowledge for their careers or graduate school. Students also participate in weekly seminars featuring presentations by top researchers.

Innovative Facilities

The laboratories are well-equipped with up-to-date instruments not often found in undergraduate laboratories, including a DNA synthesizer and sequencer, a gas chromatograph/ mass spectrometer, a 3-D molecular graphics workstation, a superconducting nuclear magnetic resonance spectrometer, a Fourier transform infrared spectrometer, a real time PCR analyzer, and transmission and scanning electron microscopes to name a few!

First-Year Suggested Curriculum

- Chemical Principles
- Cell Biology and Genetics

Contact Info:
Biology
Phillips Science Hall 330
101 Roosevelt Avenue
715-836-4166 | biology@uwec.edu
Biochemistry/Molecular Biology (continued)

• Calculus and Analytical Geometry
• Quantitative Analysis
• Organismal Form and Function
• University writing requirement — depending on placement exam
• General electives