

BIOLOGY

Biology Program

The Biology curriculum leads to either a Bachelor of Science or Bachelor of Arts degree. A minor field of study is required.

Biology has many specialty areas and exciting career opportunities. The courses required for biology majors have been selected to provide a broad introduction to the field of biology. Students are encouraged to individualize their biology curriculum by taking elective courses in their specific areas of interest including: Pre-Medicine and Health Professions, Cell/Molecular Biology, Ecology, and Aquatic Biology. Your biology advisor will guide you in choosing a program of study that best suits your interests and goals.

The Biology program is strengthened by the environmental resources of the Lake Superior region and by close working relationships with regional research laboratories. Field and laboratory research experience and internships are provided through cooperation with UW-Superior's Lake Superior Research Institute (<https://www.uwsuper.edu/academics/research-and-innovation/lake-superior-research-institute/>), Lake Superior National Estuarine Research Reserve (<https://lakesuperiornerr.org/>), U.S. Environmental Protection Agency (<https://www.epa.gov/>), the Wisconsin Department of Natural Resources (<https://dnr.wisconsin.gov/>), Minnesota Department of Natural Resources (<https://www.dnr.state.mn.us/>), and faculty research grants.

The freshman biology sequence (BIOL 130 Principles of Biology I and BIOL 132 Principles of Biology II) is typically completed in the first year. Credit for these introductory courses may be awarded to high school students who have taken Advanced Placement courses. A score of 3 on the AP biology exam will earn credit for BIOL 130 Principles of Biology I. For scores of 4 or greater, credit will be awarded for both BIOL 130 Principles of Biology I and BIOL 132 Principles of Biology II. Credit is also awarded for International Baccalaureate (IB) exams. International students should contact the Department chair to discuss advanced placement based on their previous course work. Biology courses numbered over 400 should be taken during the junior or senior year. A formal plan for the required Capstone course and Senior Year Experience should be approved by the end of the second semester of the junior year.

Programs

- Biology Major
- Biology Minor
- Cell/Molecular Biology Focus
- Ecology or Aquatic Biology Focus
- Pre-Medicine and Health Professions Concentration

Student Learning Outcome

The Biology Program (<http://catalog.uwsuper.edu/undergraduate/academic-departments/natural-sciences/biology/biology-major/>) has developed the following learning outcomes for the Biology major.

1. Students will develop and apply a broad-based knowledge of concepts and terminology from molecular, cellular, organismal and ecological biology.
2. Students will develop critical thinking and problem solving skills by engaging in the scientific process.

3. Students will develop skills in scientific literacy.
4. Students will develop skills in scientific communication.

Admission Requirements

Admission to UW-Superior is sufficient for admission to the Biology program (<http://catalog.uwsuper.edu/undergraduate/academic-departments/natural-sciences/biology/biology-major/>). We recommend college preparatory coursework in math and science in preparation for majoring in Biology.

Faculty

Dr. Nicholas P. Danz, Professor, Ecology, Dean of Academic Affairs
 Dr. Mark Grover, Assistant Teaching Professor, Ecology
 Dr. Kristopher McConnell, Associate Professor, Biology and Pre-Health
 Dr. Shanna Nifoussi, Associate Professor, Biology and Pre-Health
 Dr. Jeffrey A. Schuldt, Professor, Organismal Biology