

DEPARTMENT OF BIOLOGY

Outstanding facilities, innovative faculty members and a nationally recognized undergraduate research program make the Biology Department an excellent choice for students interested in a career in the life sciences. Students with training in the biological sciences will be among those who will contribute significantly toward solving critical problems facing the world today, such as environmental challenges and health improvements.

Hands-on learning is at the heart of the department. Most courses feature a laboratory or field work component. Students are able to collaborate with faculty members on research projects with the possibility of co-authoring articles in national scientific publications. A variety of internship opportunities are also available, ranging from biotechnology to veterinary sites, and from local to national locations. The department offers an annual field course to Yellowstone National Park in August, as well as other locales.

Students also have the opportunity to participate in on-campus organizations including Beta Beta Beta (national biological honor society), Pre-Health Club, and the Terrestrial and Aquatic Ecology Club.

UW-Whitewater has agreements with Deakin University in Australia and the Palmer College of Chiropractic.

Majors/Emphases

Students may elect one of seven eight emphases in the Biological Sciences major. The **Cell/Physiology** and **Ecology/Evolution/Behavior (EEB)** emphases are appropriate for students planning to pursue a career or post-graduate training in those fields. The EEB emphasis includes natural resource regulation, conservation and environmental studies, while the Cell/Physiology emphasis focuses on human and animal physiology and applied biotechnology skills. The **Marine Biology and Freshwater Ecology** emphasis provides students with three years of training locally, followed by one year at Deakin University in Australia. The **Early Entrance Pre-Professional** emphasis is designed for students to complete 3 years locally and then transfer to a health professions program to complete their training; at this time, this emphasis serves students participating in the articulation agreement between UW-Whitewater and Palmer College of Chiropractic. The **Pre-Biomedical Professions** emphasis was initially designed for students planning to attend medical, veterinary, or dental schools; it is also suitable for students interested in allied health professions (physician assistant, physical therapist, nurse practitioner, pharmacist, optometrist, podiatrist, chiropractor, athletic trainer, exercise physiologist, cytotechnologist, etc.). There is also a **BSE in Biology**; which prepares students to teach secondary science (grades 4-12). Students planning to attend graduate school are also encouraged to consider the **Honors** emphasis.

Majors in Biology

- Biology - Cell/Physiology Emphasis (BA/BS) (<http://www-public.courseleaf.com/undergraduate/letters-sciences/biology/biology-cell-physiology-ba-bs/>)
- Biology - Early Entrance Pre-Professional Emphasis (BA/BS) (<http://www-public.courseleaf.com/undergraduate/letters-sciences/biology/biology-early-entrance-preprofessional-emphasis/>)
- Biology - Ecology, Evolution and Behavior Emphasis (BA/BS) (<http://www-public.courseleaf.com/undergraduate/letters-sciences/biology/biology-ecology-field-ba-bs/>)

- Biology - Honors Research Emphasis (BA/BS) (<http://www-public.courseleaf.com/undergraduate/letters-sciences/biology/biology-honors-emphasis/>)
- Biology - Marine Biology and Freshwater Ecology Emphasis (BA/BS) (<http://www-public.courseleaf.com/undergraduate/letters-sciences/biology/biology-marine-biology-and-freshwater-ecology-ba-bs/>)
- Biology - Pre-Biomedical Professions Emphasis (BA/BS) (<http://www-public.courseleaf.com/undergraduate/letters-sciences/biology/biology-prebiomedical-professional-emphasis/>)
- Biology Science Education (BSE) (<http://www-public.courseleaf.com/undergraduate/letters-sciences/biology/biology-science-education-bse/>)

Minors in Biology

- Bioinformatics (<http://www-public.courseleaf.com/undergraduate/letters-sciences/biology/bioinformatics-minor/>)
- Biology (<http://www-public.courseleaf.com/undergraduate/letters-sciences/biology/biology-minor/>)
- Biology Education (<http://www-public.courseleaf.com/undergraduate/letters-sciences/biology/biology-minor-education-emphasis/>)

Certificate in Biology

- Biology Honors Research (<http://www-public.courseleaf.com/undergraduate/letters-sciences/biology/biology-honors-research-certificate/>)