

EDGEWOOD COLLEGE • 1000 EDGEWOOD COLLEGE DR • MADISON, WI • EDGEWOOD.EDU

MAJORS

BIOLOGY

BROAD FIELD: BIOLOGY CONCENTRATION

CYTOTECHNOLOGY

ENVIRONMENTAL SCIENCE

MEDICAL SCIENCE

MINORS

BIOLOGY

TEACHING MAJORS:

BIOLOGY TEACHING

BIOLOGY TEACHING: ENVIRONMENTAL SCIENCE

BROAD FIELD SCIENCE: LIFE AND ENVIRONMENTAL SCIENCE

TEACHING MINORS:

BIOLOGY TEACHING

NATURAL SCIENCE TEACHING

SCIENCE EDUCATION

The Biological Sciences at Edgewood College offers you the opportunity to build an understanding in the biological sciences and a life-long link with discovery. The Biological Sciences Department seeks to prepare all our students to be well-informed citizens and leaders in a world increasingly shaped by science and technology. We are committed to innovation and excellence in our programs, and to preparing our majors to be successful in science-related careers that are vital for meeting future local, national, and global needs.

Biological Sciences graduates go on to become ecologists, environmental consultants, life science illustrators, biomedical engineers, doctors, veterinarians, physical therapists, teachers, research scientists, and laboratory technicians. A degree in the biological sciences can prepare students for continuing education in many graduate or professional schools.

For more information about the Biological Sciences Department and its academic programs, go to biology.edgewood.edu

For more information about Pre-Health Pathways, go to biology.edgewood.edu/Academics/Pre-Health-Pathways

Our campus student organizations, Edgewood Science Society, Achievement in Medicine, and Wood's Edge, offer you opportunities to build friendships, extend classroom learning, and engage in community outreach.

The Biological Sciences
Department is located in the

Sonderegger Science Center, which opened in January 1999 and Mazzuchelli Center on the north shore of Lake Wingra, renovated in 2004. Both facilities provide opportunities for you to engage in undergraduate research projects. Students study diverse biological topics: Lake Wingra, its watershed, plant communities found in the Arboretum located on the south shore of Lake Wingra as well as biomechanics, animal behavior, neuroscience, microbiology, and animal development.

SAMPLE COURSES

BIO 206 - Natural Communities of Wisconsin

An exploration of Wisconsin's natural communities, including wetlands, lakes, streams, prairies, and forests. Field trips and labs focus on the identification of local plants and animals, the historical and current distribution of natural communities in Wisconsin, the science behind our current understanding of the various factors that draw species together, and our efforts to preserve our natural heritage.

BIO 415 - Exercise Physiology

An advanced study of how the body responds and adapts to exercise. Topics include a comprehensive study of changes in physiology during different training regimes, metabolism theory, how physiology affects fitness, and the development of training and nutrition plans. Laboratory experiences provide students with opportunities to work with cutting edge physiology technology.

BIO 402 - Cell and Molecular Biology

Explores how life works at the cellular level. Topics include cell structure and function: energy, molecular interactions, flow of genetic information, regulation of cell functions, and interactions of cells with their environment. Laboratory work includes qRT-PCR, gel electrophoresis, cell culture, and the use of other molecular biology tools.

EACILITY

TIM KUHMAN, PH.D. Department Chair tkuhman@edgewood.edu