



## Biology

at BELMONT UNIVERSITY

Biology at Belmont is characterized by small class sizes, faculty who love teaching, strong undergraduate research programs, faculty-taught labs and individual advising. Students engage in hands-on learning in modern, fully-equipped teaching and research laboratories. Covering all the major areas in biology, from proteins to ecosystems, the faculty work together to create a learning environment that prepares students for a wide range of options after graduation.



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Belmont University is a Christian community. The university faculty, administration and staff uphold Jesus as the Christ and as the measure for all things. As a community seeking to uphold Christian standards of morality, ethics and conduct, Belmont University holds high expectations of each person who chooses to join the community. Belmont University does not discriminate on the basis of race, sex, color, national or ethnic origin, age, disability, military service or sexual orientation. Inquiries or complaints concerning the application of these policies to students should be directed to the Associate Dean of Students, Beaman Student Life Center Suite 200, 1900 Belmont Blvd., Nashville, TN 37212, deanofstudents@belmont.edu or 615.460.6407.

CSM-15004

## Biology

COLLEGE OF SCIENCES & MATHEMATICS



FROM HERE TO ANYWHERE

“I am thankful for my knowledgeable advisors and their support in my research project and my path to medical school. They provided just the right amount of guidance while encouraging independent thinking.”

ALICIA HSU

“I have gained confidence in applying scientific knowledge to a real world problem. By requiring a research project, students become the link between their education and an unanswered question.”

JOHN HOLT



### WHAT MAKES US UNIQUE?

Faculty in biology engage students in the practice of “doing biology.”\* Biology is observed, counted, photographed, manipulated, weighed, timed and poured. We participate in the scientific method as we measure rates of photosynthesis, assay enzymes, run DNA gels, count conenose bugs, time heartbeats, sample salamander populations, grow cancer cell lines and train zebrafish. We believe that no subject, and certainly not biology, can be truly understood and appreciated until it is experienced. Courses in biology are characterized not only by lectures and discussions but also by model building, role-playing, open-ended laboratory experimentation and field investigations. Involvement in undergraduate research and conference presentations provide real-world experiences. Students have access to a wide range of modern scientific equipment, research laboratories, tissue culture lab, green roof, zebrafish lab and microscopy suite. Students engage in community service and internships at local health care facilities, schools and natural areas. Participation in biology student organizations, prepping labs as a student worker and serving as a peer tutor are other forms of active learning available to students.

The biology major prepares students for graduate and professional schools as well as a wide range of careers. Our alumni are practicing physicians, dentists, pharmacists, naturalists, research technicians, high school teachers and biology professors, to name a few of the professions they have chosen.

\*Doing Biology, Joel Hagen, Douglas Allchin, and Fred Singer, HarperCollins College Publishers, 1996.



### IN & OUT OF THE CLASSROOM

#### CONCENTRATIONS & CURRICULUM:

All students in the Biology Major take a core set of courses, including an undergraduate research sequence. Students then choose from among the following emphases to focus their biology education in preparation for graduate/professional school or entering the workforce in their chosen career:

**Education** - For students interested in K-12 teaching; Belmont offers a Masters of Arts in Teaching (M.A.T.) with one additional year of graduate work

**General** - Provides flexibility in tailoring a biology plan of study

**Ecology and Biodiversity** - Equips students for careers in wildlife, natural areas and research

**Marine** - An affiliation with the Institute of Marine Sciences in Ocean Springs, Mississippi provides students with the opportunity to pursue marine studies

**Pre-Allied Health** - Prepares students for professional schools such as physical therapy, occupational therapy, nurse practitioner, physician's assistant

**Pre-Med** - Designed for students interested in medical, dental and veterinarian school

**Pre-Pharmacy** - Provides the background and skills required for application to pharmacy school