



Biochemistry & Molecular Biology at BELMONT UNIVERSITY

The Biochemistry and Molecular Biology (BMB) program at Belmont University is a joint major offered by the Departments of Biology & Chemistry/Physics. It provides students with a rigorous, interdisciplinary curriculum designed to educate students in the fields of chemistry and biology as they relate to biological processes at the molecular level. Graduates of the Biochemistry and Molecular Biology program at Belmont have had success in a variety of fields of research and practice related to biology.



Biochemistry &
Molecular Biology
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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 Dean of Students, Beaman Student Life Center Suite 200, 1900 Belmont Blvd., Nashville, TN 37212, deanofstudents@belmont.edu or 615.460.6407.

PHA-14333

Biochemistry & Molecular Biology

COLLEGE OF SCIENCES & MATHEMATICS



FROM HERE TO ANYWHERE

“There is a great feeling of validation when the material being learned in a biology course overlaps with something learned in a chemistry class earlier that week. My experiences as a Biochemistry and Molecular Biology major have truly bridged the gap in my mind between the two sciences to the point where they no longer appear as two separate fields of study. As a BMB major, appreciating this sense of overall ‘connectedness’ reassures me that my opportunities in the world of science truly are limitless.”

ADAM JAMES

Biochemistry & Molecular Biology Major, 2016

“I love being a BMB major because of the variety of classes that are involved in it. Not only do I get to study the cells that support all of life, but I also have the opportunity to study the chemical reactions that take place within them. Biochemistry and Molecular Biology gives you a chance to learn both the how and the why behind life.”

FELICITY NEWTON

Biochemistry & Molecular Biology Major, 2016



WHAT MAKES US UNIQUE?

The Biochemistry and Molecular Biology program is characterized by small classes taught by faculty committed to providing a rigorous, student-centered curriculum. In addition to traditional coursework, students are required to design and carry out an undergraduate research project under the supervision of a faculty mentor. Students present their results at Belmont University research symposia as well as regional and national scientific meetings.

BMB faculty serve as academic advisors and supervise the progress of each student in the program. The Biochemistry and Molecular Biology program includes all the science courses required for admission to medical or dental schools and provides rigorous preparation for graduate studies in biochemical or biological sciences.

Students in the Biochemistry and Molecular Biology program are encouraged to participate in Beta Chi, the Biochemistry and Molecular Biology club at Belmont. This organization seeks to increase awareness of scientific research among Belmont students by hosting journal club meetings and inviting guest lecturers to campus. Club members routinely tour local research facilities and engage with the Nashville community by participating in breast cancer walks and judging homeschool science fairs.

In 2010, the Benjamin Walloch Endowed Scholarship for Biochemistry and Molecular Biology was established for BMB majors. One scholarship is awarded annually to a student demonstrating academic ability and financial need.

BIOCHEMISTRY & MOLECULAR BIOLOGY IN THE LIFE SCIENCES TODAY

Much of biological research and practice today is based upon the behavior of living systems at the level of molecules and cells. The curriculum of the Biochemistry and Molecular Biology major has been designed to prepare students to become researchers or practitioners with strong backgrounds at those levels. Students take general chemistry, organic chemistry, biochemistry and biophysical chemistry.

Allied with those courses are biological courses in molecular and cellular biology, physiology, microbiology, genetics and a choice of courses from immunology, cancer biology and neurobiology. Supplementary courses in mathematics and physics are also included as necessary for success in the life sciences. Combined with the signature BellCore courses and options in the Bachelor of Science general education curriculum, BMB students are well-prepared for lifelong learning in their chosen careers and for meaningful lives.