BIOCHEMISTRY

Biochemistry is a very broad science that studies the molecules and chemistry of life. Biochemistry focuses on the structure, properties, and interactions of molecules such as proteins, nucleic acids, sugars and lipids. Biochemistry's aim is to understand how these molecules participate in the processes that support the various functions of the living cell. These studies are therefore essential for understanding disease and finding cures, for improving agriculture and the production of food and biofuels, and to produce innovation in biotechnology.

Whereas other biological science majors may focus on cellular, organismal or population level biology, biochemistry focuses on processes that occur at the molecular to cellular levels. Therefore, this major has a greater focus on basic and quantitative sciences, such as math and, particularly, on chemistry.

Biochemistry graduates go on to a variety of careers in science and science-related fields. The major is designed to fit the needs of the student who wishes to achieve bachelor's-level training as well as those planning to pursue graduate or professional study. The degree serves as an excellent background for medical school or veterinary school admission, as well as for graduate study in biochemistry or other allied fields (biology, bacteriology, genetics, molecular biology, or oncology).

DEGREES/MAJORS/CERTIFICATES

Biochemistry, B.S. (CALS) (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/biochemistry/biochemistry-bs/)

PEOPLE

PROFESSORS

Amasino, Rick

Attie, Alan

Bednarek, Sebastian

Butcher, Sam

Cox, Mike

Craig, Elizabeth

Fox, Brian (Chair)

Friesen, Paul

Henzler-Wildman, Katie

Holden, Hazel

Kimble, Judith

Landick, Bob

Ntambi, James

Palmenberg, Ann

Ralph, John

Rayment, Ivan

Record, Tom

Rienstra, Chad

Senes, Alessandro

Sussman, Mike

Wright, Elizabeth

ASSOCIATE PROFESSORS

Hoskins, Aaron

Raman, Vatsan

ASSISTANT PROFESSORS

Cantor, Jason Coyle, Scott Grant, Tim Kirchdoerfer, Robert Lim, Ci Ji Romero, Phil Simcox, Judith Venturelli, Ophelia Weeks, Amy

ASSOCIATE FACULTY

Pennella, Mario Shu, Erica

ACADEMIC ADVISORS

Biochemistry & Microbiology Undergraduate Advising Hub (https://biochemmicrobio.wisc.edu/advising/)

For more information, see the Department of Bacteriology directory (https://bact.wisc.edu/people.php).