Zoom in to the microscopic world of the cell

Cell biology is the study of cell structure and function, and the cell is considered the fundamental unit of life. You'll discover how cells function, reproduce and interact with one another. This includes uncovering what happens when processes go wrong — and how to correct them if they do.

This major explores the principles that govern how biomolecules interact with one another to organize themselves into cells as well as how cellular organization and function contribute to the development, maintenance and reproduction of adult organisms. You'll participate in research at the frontiers of genetics, disease processes and developmental biology.
“Not only did I learn how certain processes work in cell biology, but I was challenged to think further in terms of what to expect in mutations or how to propose experiments. It has definitely exceeded my expectations and has taught me that I’m capable of critical thinking from a science perspective.”

– Katarina Yabut, ’16 B.S.

The Cell Biology undergraduate major prepares you for many careers in the life sciences, especially:

**Biomedical and Biotech** – Bring the processes of biology to medicine and industry to develop technologies and products that help improve our lives and the health of our planet.

**Health Sciences** – This major prepares a student for entrance into medical or veterinary school and other careers helping humans and animals achieve healthy lives.

**Science Education** – Educate students and the public on the composition and organization of the most fundamental structures of life.

**Foundational Research in Biology** – Use the latest methods and technology to expand the frontiers of knowledge in cell biology.

Research lab members Kathy Nguyen and Qiming Yang receive guidance from MCB Professor Daniel Starr.