A Curiosity-Driven Community
CBS students at the University’s Wall of Discovery, part of the Scholars Walk on the East Bank campus. The wall includes several discoveries by researchers associated with the College.
DISCOVERY IS A CONSTANT AT THE COLLEGE OF BIOLOGICAL SCIENCES.

The drive to discover is part of everything we do at the College of Biological Sciences (CBS). Opportunities abound to follow where curiosity leads. As a student, you will expand your knowledge and put it to work in active-learning classrooms and faculty labs, on campus and in the community. You will collaborate with your peers to develop solutions to real-world problems and answer basic biological questions. So, what do you want to discover?

Don’t take it from us. Hear directly from students about what they value most about the College of Biological Sciences. z.umn.edu/cbsexperience
Before you even arrive on campus in the fall to start your freshman year, you will head to *Nature of Life* at Itasca Biological Station and Laboratories where you will explore biology in a living laboratory while learning about the College and making connections. Back on campus, you will work with fellow students to address research questions as part of the *Foundations of Biology* course sequence. And that’s just the first year! Translating knowledge into action is a common thread that runs through the CBS experience.

CBS students at the Mississippi River headwaters during *Nature of Life* at Itasca, a four-day biology immersion program at Itasca State Park the summer before their freshman year.
Professor DEENA WASSENBERG talks with students in an active-learning classroom in Bruininks Hall.
Award-winning Ecology, Evolution and Behavior professor SHARON JANSA brings mammalogy class to life with real specimens from the Bell Museum collection. Says Jansa: “This is one of the few universities with a comprehensive collection of mammal specimens. Students get hands-on experience with this collection. I love teaching a class where students get to see the real thing — real specimens of lions, tigers and bears, but also of pangolins, colugos, vampire bats and rodents.”
Our faculty's passion for education sets CBS apart. As a student, you will have many opportunities to build meaningful connections with your instructors who bring their areas of expertise to life — from molecules to ecosystems. They will empower you to gain insight into how the world works and put that knowledge to work.

Biochemistry professor **PAUL SILICIANO** — recipient of the Morse Alumni Award for Outstanding Contributions to Undergraduate Education and the Disability Resource Center’s Access Achievement Award — teaches several core College of Biological Sciences courses.
Doing research as an undergraduate positions you for success no matter your professional aspirations. As a CBS student, you will have opportunities to work alongside accomplished researchers investigating a range of questions rooted in biology from the role of an enzyme implicated in breast cancer and HIV to the global nutrient cycle. You will learn the latest research techniques in state-of-the-art research facilities and at University field research stations.

Here are just a few of the research topics CBS students investigated in faculty labs recently:

- The effect of food web composition and plant diversity on plant nutrient content
- Protein structural analysis of substrate specificity in a copper amine oxidase
- Assessing acoustic signal variability and the potential for sexual selection and social recognition in boreal chorus frogs
- The mechanism of gene targeting in human somatic cells
Microbiologist DANIEL BOND with DEVESH KAUSHIK (Class of 2015), who developed a novel approach to measuring the activity of bacteria in a metal as an undergraduate researcher in the Bond lab. Says Bond: “Students try new experiments that have never been done. They help us figure out how to make them work and see that science is a creative process.”
CBS MAJORS

BIOCHEMISTRY
Study the molecules that make up living things, from proteins and nucleic acids to lipids and carbohydrates.

BIOLOGY
Develop a strong foundation in the fundamental nature and characteristics of living things, from molecules to ecosystems.

ECOLOGY, EVOLUTION AND BEHAVIOR
Investigate a range of topics from evolutionary adaptations of plants and animals to the role of biodiversity in ecosystem stability.

GENETICS, CELL BIOLOGY AND DEVELOPMENT
Learn how genetics influences cell structure and function, and drives the formation of organisms.

MICROBIOLOGY
Explore the structure, function and interaction of the microscopic world of bacteria, fungi and Archaea.

NEUROSCIENCE
Understand the way the brain works and how it drives perceptions, memory and movement.

PLANT AND MICROBIAL BIOLOGY
Investigate the structure and function of plants and microorganisms and potential interactions between the two.
Are you fascinated by the biological factors that contribute to disease? Or interested in understanding the impact of climate on biodiversity? Maybe you are curious about how microbes can be harnessed to clean up the environment and fight illness. The College of Biological Sciences offers seven majors that cover the breadth and depth of biology from molecules to ecosystems. No matter which major you choose, you will develop a solid foundation in the biological sciences and the critical thinking skills needed for success in any endeavor.

MARINE BIOLOGY? YOU BETCHA!
The College also offers eight minors including marine biology! Members of the Marine Biology Club recently received the University’s Tony Diggs Excellence Award for providing the public with opportunities to see and engage with marine invertebrates through their Traveling Touch Tank.
CBS students share many common reference points and experiences that help instill a strong sense of community.
YOUR COLLEGE EXPERIENCE IS ABOUT FAR MORE THAN ACADEMICS.

It’s about cultivating knowledge of science and yourself. It’s about exploring your interests and gaining experience. It’s about making friends and finding mentors. Being a student at a close-knit college within a large research university means that you will feel empowered to pursue your goals as part of a community of thinkers and doers who share your curiosity about life.

“Don’t be afraid to push your limits.”

MEET HANNAH REISNER • Class of 2016

As an undergraduate, Hannah participated in the Dean’s Scholars and Community Engagement Scholars programs. Her goal is to work in public health management and policy to address social disparities in health outcomes. Hannah says: “Don’t be afraid to push your limits. I think that’s the best way to learn something new about yourself.”
Our award-winning advisors and staff build relationships with students and help them make the most of the many resources and opportunities available to them at the College of Biological Sciences.
WHERE DO YOU WANT YOUR EDUCATION TO TAKE YOU?

The College of Biological Sciences provides exceptional one-on-one support throughout students' academic journey. Our award-winning Student Services staff and faculty will help you gain the insights and experiences needed to achieve your goals. Whether your future lies across the street or across the globe, you will find the support and resources you need to get there, including specialized support in undergraduate research, pre-health planning and career coaching.

Interested in studying abroad? The world is your classroom! Explore forest ecology in Costa Rica, coral reef ecology in Honduras, evolution in the Galápagos and scientific innovation in Ireland. Students diving in Roatan (right) observe and gather data for the International Reef Check project as part of the course.
A GREAT EDUCATION IS THE FIRST STEP TOWARD A GREAT CAREER.

Whether you want to teach, find cures for diseases or address environmental challenges, a degree from the College of Biological Sciences will prepare you to take the next step. Our alumni go on to top graduate programs and medical, dental and pharmacy schools. They become educators, doctors, business analysts and researchers. They join Fortune 500 companies and biotechnology start-ups. (Some even start their own ventures!) As a CBS grad, you will be well prepared for whatever path you choose.

BENNETT OLUPO (Biology and Spanish, '18) uses his background in biology and love of design to help prepare medical staff for their fields. In his role at the Simulation Center on campus, he helps manage and program high-tech mannequins to mimic varied health conditions to train doctors, nurses and dental students. As one of the only major public research universities located in the heart of a major urban area, students have unparalleled access to opportunities while still in school.
Ecology, Evolution and Behavior graduate CELIA HEMMERICH (B.S. ’10) is a physician assistant. She credits her research experiences as an undergraduate with setting her on her current course. “CBS prepared me very well, and the connections I made through the College were really helpful.”
BE PART OF A CURIOSITY-DRIVEN COMMUNITY.

When you choose the College of Biological Sciences, you become part of a community of students, alumni and faculty motivated to make a difference. Your undergraduate experience will not only prepare you to think like a scientist, it will empower you to act on that knowledge through hands-on learning and research, student leadership opportunities, volunteering in clinics and schools, and much more.

QUESTIONS ABOUT ADMISSION TO CBS?
Contact the Office of Admissions
1-800-752-1000 or admissions.tc.umn.edu

Find us online at cbs.umn.edu
ALLIE, EMILY and ERICA ELLINGSON share more than a last name. The sisters share a passion for science and a desire to make a difference. Allie (Genetics, Cell Biology and Development, ’10) is an ob/gyn resident at the University of Minnesota. Emily (Ecology, Evolution and Behavior ’14) is studying optometry at the State University of New York (SUNY) College of Optometry in New York City. Erica (Class of 2020), has her sights set on a career in healthcare, as well.
The data presented here provide a composite picture of admitted freshman applicants to the College of Biological Sciences; they are not admission criteria. Admission decisions are based on an individual, holistic assessment of each application.

### CBS STUDENT STATS

The College of Biological Sciences attracts highly qualified students from Minnesota and across the country. Here is a brief rundown for the high school rank and standardized test scores of the middle 50 percent of students admitted to the College of Biological Sciences for fall 2017.

<table>
<thead>
<tr>
<th>High school rank percentile*</th>
<th>ACT score*</th>
<th>SAT score*</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-99%</td>
<td>29-32</td>
<td>1330-1450</td>
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</tbody>
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