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Biochemistry, B.S.

Find your future at Humboldt. Hands-on learning forms the basis of our Biochemistry program. In our close-knit classrooms, you'll get to know your professors and get real-world experience and first class instruction. Our modern instrumentation such as NMR, FTIR, HPLC, GCMS, and a computational laboratory, are all available to undergraduate students.

Experience Your Learning

Biochemistry students have a wide variety of opportunities and facilities to take advantage of hands-on learning.

In our first-year learning community, you'll chemically analyze a river water sample to determine the human impact on the natural environment.

We have active undergraduate research programs in biochemistry and chemistry. The research areas include: biochemistry, physical chemistry, molecular modeling, inorganic chemistry, organic chemistry, organometallic chemistry, floral-scents, molecular electronics, marine chemistry, aqueous chemistry, trace metal analysis, and atmospheric chemistry.

The Free Radicals Chemistry Club is our department's award-winning student affiliate of the American Chemical Society. The Club hosts events for finding summer research opportunities, graduate schools application help, community involvement, and biochemistry demonstrations, among other fun activities throughout the year.

Many of our graduates have been accepted into the Cal Poly Humboldt CIRM Bridges 3.0 internship after graduation. This one-year program allows students to participate in research as a post baccalaureate intern in cutting edge multidisciplinary stem cell and regenerative medicine research.

Did you know?

- **You'll get to know your peers in the first-year Stars to Rocks place-based learning community, which will familiarize you with Humboldt and the Chemistry & Biochemistry Department, and introduce you to new friends.**
- **Our small class sizes and experienced instructors provide a meaningful education, and you'll gain support from your fellow students.**
- **Biochemistry students with additional skills or a highly specialized emphasis have special advantages in the job market.**

Department of Chemistry & Biochemistry • chemistry.humboldt.edu • chemistry@humboldt.edu • (707) 826-3277

Academics & Options

Biochemistry, B.S.

Bachelor of Science

The Cal Poly Humboldt Bachelor of Science in Biochemistry Program in the Department of Chemistry & Biochemistry focuses on the molecular level chemical reactions that control the basic processes in living organisms. Biochemistry is involved with elucidating the structure and function of biological molecules and plays a critical role in understanding the chemical causes of disease and infection, the development of medicines to control and cure illness, the development of safe food supplies, and new sources of biofuels and biomaterials. Biochemistry majors are needed to help solve some of society's most difficult problems through innovation in technology, research and development, and teaching. The Cal Poly Humboldt Biochemistry program prepares students for their chosen careers by providing ample opportunities for hands-on laboratory experience and the ability to choose courses in their interest area.

Careers

With a strong foundation in chemistry, you'll be highly prepared for your future.

- **Biochemist**
- **Pharmacologist**
- **Physical Biochemist**
- **Analytical Biochemist**
- **Biotechnology**
- **Medical Fields**
- **Nanotechnology**
- **Environmental Protection**

"Cal Poly Humboldt is a wonderful place to go to college in general, but a fantastic location for studying Chemistry & Biochemistry. I never found the labs too crowded or the lecture halls too packed to not be able to develop a relationship with the professor if I wanted to, or ask a question, or attend office hours. The material presented prepared me, but the high level class offerings in particular changed my life."

Smith Purdum ('18, Chemistry), fire debris analyst for a private forensic lab in the Sacramento area