



Chemistry, B.A. & B.S.

Find your future at Humboldt. Hands-on learning forms the basis of our Chemistry 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

Chemistry 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 where you have the opportunity to specialize in a particular area of 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 chemistry 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 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.
- Chemistry students with additional skills or a highly specialized emphasis have special advantages in the job market.



Academics & Options

Chemistry, B.A. & B.S.

Bachelor of Arts

The B.A. degree provides less specialization in chemistry and greater opportunity for studies in other fields. This curriculum is recommended for those who wish to obtain a Standard Teaching Credential with Specialization in Secondary Teaching, students who wish to add a second major, and students switching from majors with different core courses.

Bachelor of Science

The B.S. degree fulfills the requirements for professional training established by the American Chemical Society, a national certifying agency. It is designed for students who will seek research positions in industry and governmental agencies and also prepares students who intend to continue study into the graduate level.

Program Concentrations

Biochemistry concentration

This concentration prepares students for careers in biochemistry and various related fields. With additional coursework, it fulfills the requirements for professional training established by the American Chemical Society, a national certifying agency. It is designed for students who will seek research positions in industry and governmental agencies and also prepares students who intend to continue study into the graduate level.

Minors

- Chemistry Minor



Careers

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

- Analytical Chemist
- Biochemist
- Chemical Engineer
- Environmental Consultant
- Forensic Chemist
- Geochemist
- Inorganic Chemist
- Organic Chemist
- Pharmacologist
- Physical Chemist



Cal Poly Humboldt is a wonderful place to go to college in general, but a fantastic location for studying Chemistry. 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