GONZAGA UNIVERSITY
College of Arts and Sciences
Department of Chemistry and Biochemistry

Degrees: B. A. in Chemistry, B.S. in Chemistry and B.S. in Biochemistry

Department of Chemistry and Biochemistry Mission Statement
In support of Gonzaga University’s mission, the Department of Chemistry and Biochemistry aims to intentionally develop the whole person by contributing to the intellectual and physical development of our students through deep understanding of the chemical basis of matter and hands-on practical laboratory skills. We will cultivate in our students the capacities and dispositions for reflective and critical thought, independent lifelong learning, ethical practices in science, creativity and innovation to create scientific knowledge, as well as foster a mature commitment to social justice, global engagement, and care for sustainable chemical practices. The Department of Chemistry and Biochemistry will educate our students for lives of leadership by modeling and expecting excellence in academic and professional pursuits and the ability to communicate science.

Departmental Learning Outcomes

- Chemistry and Biochemistry majors will demonstrate an understanding of fundamental concepts in the subdisciplines of organic, inorganic, analytical, and physical chemistry, and biochemistry.

- B.S. Biochemistry majors will demonstrate competency in the biochemistry laboratory and demonstrate an understanding of the basic concepts in molecular biology.

- Chemistry and Biochemistry majors will demonstrate the ability to integrate knowledge learned in discipline-specific courses.

- Chemistry and Biochemistry majors will understand and follow safe laboratory procedures.

- Chemistry and Biochemistry majors will demonstrate practical laboratory skills which include maintaining complete experimental records, competency in performing experimental techniques, and utilizing modern chemical instrumentation.

- Chemistry and Biochemistry majors will develop proficiency in analyzing and interpreting data, and making reasonable conclusions.

- B.S. Chemistry and B.S. Biochemistry students pursuing an ACS approved degree will demonstrate the ability to independently plan and execute experiments to contribute new knowledge to the advancement of science.

- Chemistry and Biochemistry majors will demonstrate the ability to access, search, and use the chemical literature and other chemical information resources.

- Chemistry and Biochemistry majors will demonstrate the ability to communicate scientific information in written, oral and visual forms.
• Chemistry and Biochemistry majors will understand and follow ethical practices in science.

• Chemistry and Biochemistry majors will demonstrate awareness of the broader impacts of chemistry on society.

• Chemistry and Biochemistry majors will be able to obtain a career in science or pursue further graduate or professional studies.