

CHEMISTRY

Mission Statement

The mission of the Department of Chemistry is to serve the people of the State of Florida and beyond by providing excellent educational experiences in the physical sciences, advancing knowledge in chemistry through research, and service to the public and our professions. As a primary constituent of a liberal arts education, we seek to foster an appreciation of the physical world and an understanding of the scientific method of inquiry. We aspire to instill in our students the principles, motivation, comprehension, and vision to prepare them for careers in chemistry and related fields and for intellectual growth throughout their lives.

Toward these ends, baccalaureate students in chemistry are challenged by our curricula to gain a firm understanding of the basic principles in their major field and to develop their theoretical, experimental, and analytical skills. Our faculty conducts experimental and theoretical research in areas of current interest in chemistry. Faculty creates opportunities for undergraduates to practice original research and to report results of their research at discipline specific conferences and through publications. Through all of our classes, including those in our general education program, we offer students experiences in the theoretical and experimental aspects of methods used by the physical sciences to study the natural world.

Student Learning Outcomes:

UNF Chemistry graduates will be able to:

Content/Disciplinary Knowledge & Skills

- Demonstrate good understanding and retention of the basic principles of chemistry
- Demonstrate efficient, accurate, and safe laboratory techniques and record keeping

Critical Thinking Skills

- Apply the basic principles of chemistry to solve problems
- Utilize mathematical skills to perform statistical evaluations of data to infer scientific results from experiments

Communication Skills

- Write clear, concise, and professional papers in a style consistent with accepted practices in chemistry
- Perform an oral report of work in chemistry that is organized well and presented clearly

Assessment Approaches

Numerous direct and indirect measures of student learning will be employed to assess mastery of the intended student learning outcomes. Among the direct measures that may be used are capstone projects, senior theses, student publications or conference presentations, pass rates or scores on subject area tests, and employer and internship supervisor ratings of students' performance. Indirect measures may include employer or alumni surveys, student perception surveys, job placement, and graduate school placement rates.

Career Opportunities

For information on the many career options available to Chemistry majors, go to *What Can You Do with an Chemistry Major* at: <http://www.unf.edu/dept/cdc/majors/chemistry.html>

For More Information

To learn more about the UNF Chemistry Department and majoring in Chemistry, go to <http://www.unf.edu/coas/chemphys/>

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