## CHEMISTRY (B.A.)

Broadly based in the liberal arts tradition, the B.A. in Chemistry has been designed for students interested in careers in areas that use chemistry as a base, such as the health-related professions, pharmaceutical marketing, secondary science education, chemistry-related industry, and/ or entrance to graduate school. By combining this major with any one of a number of majors or minors, considerable flexibility is provided to the student. A specific articulation with the Education department (secondary option) is available and allows students to complete a dual major (B.A. in Chemistry, B.S. in Education) with Chemistry certification.

## Integrative Studies Requirements

40 credits minimum

or PHYS-242 University Physics II
Total Credits
48

## Electives

Select additional courses to reach a total of 120 credits.

## Degree Requirements

120 credits 40 credits at the upper-level

## Upon completion of the Chemistry B.A. degree, students will be able to:

- Understand a broad range of knowledge in analytical, biochemical, inorganic, organic, and physical chemistry.
- Apply their knowledge and critical thinking skills to the solution of theoretical and practical problems in chemistry.
- Understand the basic theory and use of modern instrumentation. Specifically, to be able to demonstrate the ability to acquire, interpret, and analyze data using instrumental methods.
- Demonstrate laboratory skills appropriate to the study of chemistry, including the ability to perform quantitative or qualitative chemical measurements.
- Demonstrate laboratory skills appropriate to the study of chemistry, including the ability to perform basic synthetic reactions.
- Demonstrate laboratory skills appropriate to the study of chemistry, including the ability to maintain a laboratory notebook.
- Demonstrate laboratory skills appropriate to the study of chemistry, including the ability to work safely in a laboratory setting.
- Prepare effective written scientific reports and oral presentations assisted by the use of computer technology (word processing, spreadsheets, chemical structure drawing programs, and chemical information retrieval services).
- Understand the importance of chemistry as it applies to industrial, economic, environmental, and social issues, and maintain an interest in the study and practice of chemistry.
- Be successful in pursuing graduate studies or employment in chemistry or a chemically-related field.

