

# Chemistry

✓ Major

✓ Minor

## Description of the major:

Chemistry is the science of all matter and its changes and is intimately linked to all the natural and applied sciences. The curriculum of the Bachelor of Science in chemistry will involve the study of numerous fields of chemistry, including analytical, biological, inorganic, organic and physical chemistry.

## The student experience:

- A chemistry degree will prepare you for a wide variety of post-graduate (M.S. or Ph.D.) opportunities, such as graduate programs in chemistry and biochemistry; pharmacy, medical or dental school; and various teaching degrees.
- Students with a bachelor's degree in chemistry find work opportunities in the chemical, biochemical, environmental, medical and pharmaceutical industries, as well as forensic and government laboratories.
- State-of-the-art instrumentation includes high-field fourier transform nuclear magnetic resonance (FT-NMR), fourier transform infrared (FT-IR), atomic absorption (AA) and ultraviolet/visible (UV/VIS) spectrophotometers, gas chromatography with flame ionization detection (GC-FID), gas chromatography with mass spectrometer detection (GC-MS) systems, and a high-performance liquid chromatograph (HPLC).
- Since laboratory research is an integral part of the University's program, students work closely with faculty to carry out individually tailored research projects. Some areas in which students may conduct research are atmospheric

chemistry, chemical education, forensic chemistry, fuel-cell chemistry, peptide engineering, porphyrin chemistry, structural biochemistry, and photochemistry and enzyme kinetics.

- Students have the opportunity to work in the chemistry department as laboratory and teaching assistants, which will hone their scientific skill and proficiency.

## Beyond the classroom:

Chemists are involved in many of the following areas: teaching at all levels; environmental work; patent law; food science; instrument development; forensics; clinical medicine; quality control; technology research and development; technical writing; sales and marketing of chemicals, pharmaceuticals and instrumentation.

## Areas of study:

The University catalog has the complete list of courses for the major. You can find the catalog online at [catalog.coastal.edu](http://catalog.coastal.edu).

Courses include:

CHEM 321	Analytical Chemistry
CHEM 331	General Organic Chemistry
CHEM 351	Biochemistry
CHEM 411	Inorganic Chemistry
CHEM 441	Physical Chemistry
CHEM 422	Instrumental Analysis

## For more information:

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