



**T**he world is full of questions. We turn to scientists for answers to many of them. Is this water safe to drink? Will these two things explode if I mix them together? Whether you want to be a toxicologist testing the safety of our water and soil, a materials scientist designing the next solar cell, or a forensic chemist analyzing crime scene evidence, we need people like you—people with answers. Chemists work to remediate air pollution or create novel antibiotics. They study gold nanoparticles, crystal engineering, and organic superconductors. Our chemistry degree will prepare you to make a career out of solving problems and answering tough questions that have a real impact on our lives and environment.

## This is the place.

There's no better place to study chemistry than New Orleans. Over the past decade, our region has seen heightened attention toward toxicology, soil and water safety, and environmental health. Chemists in this city are valuable additions to a variety of expanding sectors such as medicine and energy. As our commitment to conservation and rebirth grows, Chemistry is increasingly valuable in New Orleans.

Loyno students go far. They discover elements for the periodic table (Dr. Gregory Choppin who co-discovered Mendelevium is a Loyno alumnus). They are accepted into advanced programs at Stanford, Rice, Emory, Yale. They produce original research as undergraduates. Our Chemistry program is accredited by the American Chemical Society—and for good reason. At Loyno, you'll see that our sophisticated research facilities and lab equipment will live up to your ambitions, and we can help you get wherever you want to go.

## Courses

Our program structure includes thorough course work in chemistry with supporting classes in mathematics, physics, and biology so you're prepared for anything. Here's a sample of what you can expect to learn and do:

### General Chemistry Lecture + Lab

This course covers the fundamental principles of general chemistry, including the development of modern atomic theory and its role in chemical bonding, structure and reactivity, an introduction to thermodynamics and kinetics, and development of equilibria concepts.

### Organic Chemistry Lecture + Lab

Students build a strong foundation in organic chemistry and combine knowledge with practical skills by synthesizing, purifying, and identifying organic compounds. Techniques include: acid/base extraction, recrystallization, distillation, organic reactions, IR spectroscopy, refractive index, melting point and NMR.

### Physical Chemistry II Lecture

This is an advanced course in physical chemistry treating elementary quantum theory and spectroscopy with an introduction to statistical thermodynamics.

### Instrumental Analysis

This lecture/lab applies advanced principles of electrochemical, spectrochemical, and chromatographic analysis through work on instrumentation, sample preparation, data analysis, and recent developments in analytical techniques.