



**A** chemist and a teacher? Easy there, Heisenberg. We turn to scientists—and teachers—for answers to many of our world's questions. Is this water safe to drink? Will these things blow up if I mix them together? (We said easy). Chemists work to remediate air pollution or create novel antibiotics. They study gold nanoparticles, crystal engineering, and organic superconductors. 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, and people willing to give future generations the tools to build on our research. We'll prepare you to make a career out of not just solving problems that have a real impact on our lives and environment—but enabling others to do the same.

## 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. The additional teacher's certification requires 30 credit hours of supplemental teaching curriculum. Upon completion students will be prepared to teach secondary education (grades 6-12).

### 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.

### Chemistry and Art

This course explores the relationship between chemical processes and artistic production. Students study art and the chemistry behind artistic production from cave painting to contemporary art glass, discuss issues like art preservation and how to detect forgeries, and produce their own art using chemistry.