



Einstein. Newton. Hawking. Bohr. What do these people have in common? Of course they're all physicists. But the smartest people in the world have always had interests and passions that supplemented their expertise. Our program gives you the hard scientific and analytic training of a physics degree with the supplement of a well-rounded liberal arts curriculum. We know you're a physicist. Maybe you're also interested in history. Maybe philosophy, sociology, languages—or some combination of these. Whatever your interests, Loyno can accommodate the whole of your genius.

This is the place.

A city as colorful as the scope of your passions—that's what New Orleans can offer you that you won't find elsewhere. Ours is a vibrant city where you'll get an education in the culture, history, and arts just by walking outside. Balancing out the analytical and scientific elements of your degree, New Orleans is the perfect supplement for this unique concentration, with its inescapable culture and history.

Our flexible program allows you to complete a full physics curriculum and have more freedom in choosing liberal arts courses. At Loyno, undergraduate students are encouraged to collaborate with faculty on research projects, and our department offers use of sophisticated computational and laboratory research facilities that live up to our students' research ambitions. Find your goals; explore them; research them; live them. We'll help you make it happen.

Courses

First, you'll take the foundational sequence of science and mathematics courses. You'll also be able to select liberal arts electives while moving into more advanced areas in physics. Here's a sample of what you can expect:

Introduction to Electromagnetism and Relativity

This first-year course discusses electric and magnetic phenomena. It culminates in an elementary treatment of Maxwell's equations. The course also discusses Einstein's special theory of relativity and its consequences to near-speed-of-light travel.

Introduction to Waves and Quantum Physics

This sophomore course introduces students to the wonderfully weird world of quantum particles. After some preliminary treatment of wave phenomena, the course focuses on experimental foundations of quantum physics. Finally, it discusses the Schrödinger equation and the different interpretations of quantum mechanics.

Cosmology

This course combines observation results and theory to teach students about our universe (the space curvature, dark energy, dark matter, etc.). It traces back the universe's history, from the earliest moments till the formation of large-scale structures that we see in our night sky, the stars, and galaxies.

Advanced Laboratory Physics

This course trains students to be self-reliant in planning and performing experiments not ordinarily done at the elementary level. Experiments are performed in such areas as electronics, mechanics, atomic physics, and spectroscopy.