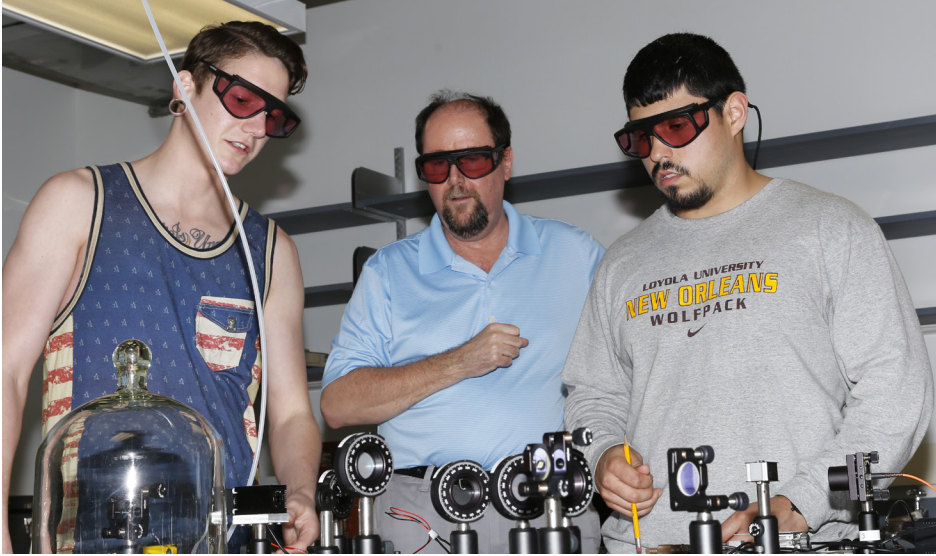


# PHYSICS *with a Concentration in Liberal Arts*

COLLEGE OF ARTS + SCIENCES



## 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**

Students conduct experiments not ordinarily done at the elementary level. Experiments are performed in such areas as electronics, mechanics, atomic physics and spectroscopy.

## 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, Loyola can accommodate the whole of your genius.

## *Possible Careers:*

- Think tank jobs/ Research Analysts
- Business
- Patent law
- Research scientist
- Meteorologist
- Geophysicist

**ATTENDING LOYOLA** means being in the heart of New Orleans. Our campus is located in the city's historic Uptown neighborhood, just a short drive from the Central Business District, the city's hub of innovation, creativity, and strategic thinking. You'll learn to hone your talents in the city named #1 new brainpower city in America and #1 best city in the U.S. for creative professionals.