

## > WHY CHOOSE LE MOYNE?

Le Moyne's emphasis on the liberal arts ensures that its physics majors will graduate equipped not only with the technical skills they'll need to succeed in the workplace, but with the characteristics employers say they're looking for in their workers: integrity, excellent communication skills, a strong work ethic and the ability to contribute as part of a team.

Le Moyne alumnus and physics major **Priyaranga Koswatta** went on to pursue graduate studies in nanotechnology at Purdue University. While at Le Moyne, he interned for a summer at Fermilab, the national particle physics accelerator laboratory in Batavia, Ill., and won an award for the best student poster presented at a meeting of the New York state section of the American Physical Society.



CONTACT US

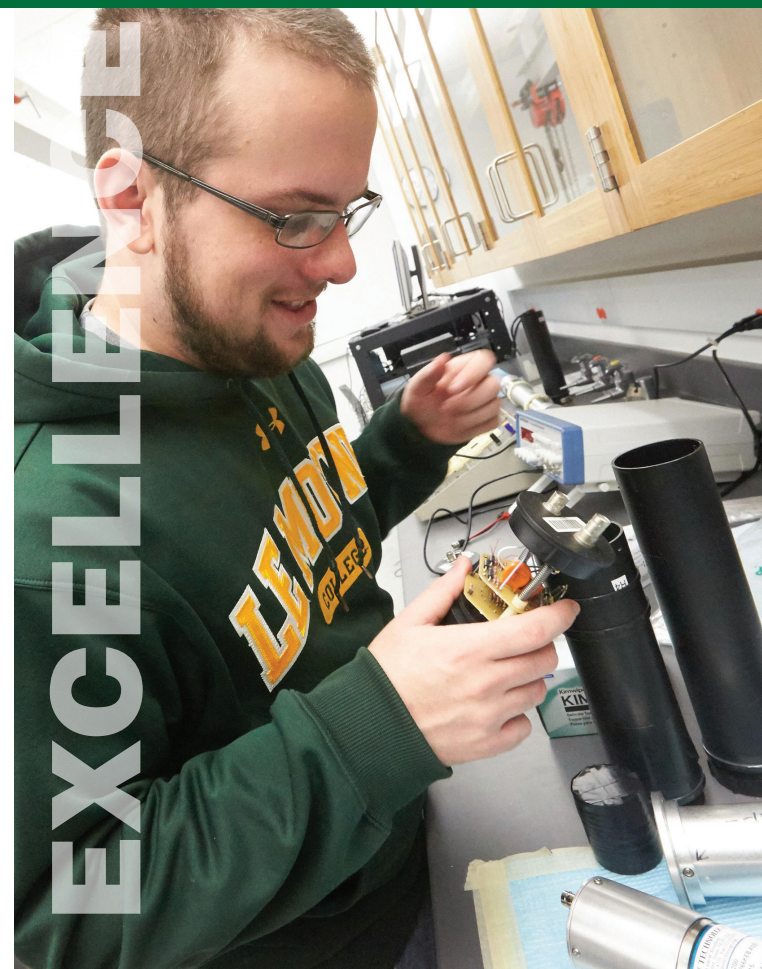
### Department of Physics

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► [lemoyne.edu/physics](http://lemoyne.edu/physics)

## STUDYING PHYSICS

At Le Moyne College



EXCELLENCE

LE MOYNE  
COLLEGE OF ARTS & SCIENCES

LE MOYNE  
Greatness meets Goodness®



**PHYSICS** is the foundation of all physical science, the study of the fundamental principles by which nature operates. Physics students at Le Moyne enjoy close working relationships with their classmates and with the physics faculty in a course of study that includes in-depth exploration of the physics of electromagnetic fields, analytical mechanics, electronics, computational techniques, relativity and quantum mechanics. Laboratory courses introduce students to experimental techniques and advanced laboratory electronics and equipment while investigating the physics of classical and quantum systems. Even non-lab courses frequently incorporate hands-on elements so that students develop a solid understanding of the connection between the physical world and the theories studied in classes. Newly renovated classrooms, laboratories, and our own machine shop provide students with modern facilities to support their education. All physics students complete a semester-long capstone project of their own design that marries individual interests with the knowledge mastered in coursework.

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## WHAT CAN I DO WITH A DEGREE IN PHYSICS?

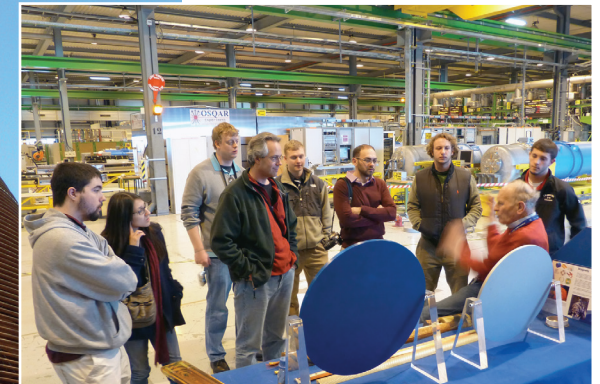
A degree in physics can open the door to a wide range of careers.

### Among the fields our physics graduates have entered are:

applied physics	meteorology
astronomy	nanotechnology
biophysics	nuclear engineering
engineering	oceanography
environmental science	patent law
finance	physics research
forensic science	physics teacher
law	renewable energy
materials science	robotics
medical imaging	scientific journalism
medical physics	technical sales
medicine and dentistry	technical writing

### Here is just a sampling of physics classes offered at Le Moyne:

**PHY 201** Fields and Waves  
**PHY 231** Experimental Foundations of Modern Physics  
**PHY 311** Electronics I  
**PHY 312** Electronics II  
**PHY 403** Physical Optics  
**PHY 407** Condensed Matter Physics



Seven Le Moyne students and two professors visited the European Organization for Nuclear Research (CERN) in Geneva, Switzerland, as part of a trip during which they explored both the history of physics and today's cutting-edge research.

**As a physics major, Joe Shupperd has aided Associate Professor Christopher Bass, Ph.D., in creating a reduction background spectrum to be used in the search for dark matter and other rare events in physics. The experience helped him to identify his future career path – in experimental physics.**