

# We are Marquette Physics

The Physics program at Marquette provides exciting research opportunities alongside faculty, fellowship in student organizations, and a stimulating curriculum to launch your career.

## Why Marquette?

- Undergraduate research opportunities
- Strong faculty-student ratio
- Flexible degree path
- Education at an urban, Jesuit university

*“The physics department is a phenomenal community to be a part of. The physics [student] lounge is like a second home to most of us, and the physics students and faculty genuinely care about each other....no one gets lost in the masses and forgotten about.”*

*-Physics Major, Class of 2016*

*Physics students and faculty at Fermi National Accelerator Laboratory in Illinois*



## What does a PHYSICS major do?

- Understand the laws of nature, the structure of matter and the behavior of physical processes: the keys to many of the universe's secrets
- Participate in research directly with physics faculty as they push the frontiers of physics knowledge
- Combine imagination with systematic reasoning

## What does a BIOPHYSICS major do?

- Approach biological systems from the perspective of physical laws and models
- Study biological systems using physical techniques
- Receive a core education in physics, biology and chemistry, with integrated biophysics courses
- Have an exciting range of electives, including experimental and research opportunities

## About the Physics Department

The Physics Department is committed to excellence in undergraduate physics education, and embraces the Ignatian ideal of *cura personalis*, or “care for the whole person.”

The department is a close-knit community of faculty, staff, and students. Our faculty are advancing the frontiers of physics in both research and education, and use their expertise and knowledge to encourage students to participate in learning and scholarship.

# Undergraduate Opportunities

**Laboratory Teaching Assistants:** Undergraduate physics majors play an important role as salaried teaching assistants in the introductory physics labs. Not only do they improve their knowledge of physics and technical writing by teaching, they also acquire valuable skills in managing people and working in groups.

**Research Assistants:** Physics majors also have the opportunity to become involved in a research project with a physics faculty member as early as the summer after their freshman year! Research areas include condensed matter physics, theoretical astrophysics, radio astronomy, and experimental nuclear physics.



## Get involved!

**The Society of Physics Students** engages in a variety of activities to promote physics, including outreach with local schools, trebuchet launches, rocket building competitions, and traveling to conferences across the country.

**Women in Physics** works to foster camaraderie among women physics majors and to network with both women alumni and prospective students. They also host women speakers and participate in outreach events.

## What can you do with a degree in Physics?

Because Marquette Physics majors develop highly organized ways of thinking, they are successful both inside and outside the traditional field of physics.

### Attend Graduate School

Many recent grads have pursued advanced degrees in physics as well as astronomy, biophysics, materials science, and bioengineering. They have entered into many of the top graduate and professional programs around the country, including:

- Princeton University
- University of Wisconsin-Madison
- Vanderbilt University
- Notre Dame
- Washington University in St. Louis

Think you can't afford grad school? Students pursuing an advanced physics degree get paid for it! Most grads have earned a fellowship or assistantship which includes full tuition, plus a substantial salary to support their studies!

### Enter the Workforce

Graduates are also employed in these diverse fields:

- Law
- Engineering
- Medicine & Medical Research
- Computer & Software Engineering
- Armed Forces
- Teaching

## Want to learn more? Visit us!

On your visit, you can:

- Tour the department and labs
- Speak with professors about their research
- Attend a physics class
- Meet with current students

To arrange a visit, contact [physics@mu.edu](mailto:physics@mu.edu)

## Marquette University Physics Department

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