

# Physics

nwcsiowa.edu/physics

Biophysics  
Physics Education

## Study options

- Biophysics major
- Physics education major/minor
- Physics minor
- Pre-engineering (3+3 dual-degree program with Washington University, St. Louis; also carefully coordinated for ease of transfer to Iowa State University)

## Faith focus

A Christian perspective is integrated with everything at Northwestern. It's what sets us apart from other colleges and universities where faith is either on the margins or missing altogether. It's among the reasons our grads - with their Christian ethics and values - are in high demand by employers.

## Expert profs

Dr. Emily Grace specializes in physics and education. Grace earned a doctorate in physics from the prestigious Royal Holloway University of London. While in the United Kingdom, she won a national contest when she wrote and performed a rap to explain her research on dark matter and liquid argon.

## Learning opportunities

- The physics education major is designed so students can easily obtain a second endorsement in math, chemistry or basic science. Students intending to teach in rural areas are encouraged to seek dual certification.
- Students will have the opportunity to conduct research alongside expert faculty members.
- Biomedical engineering is a program of study available through Northwestern's dual-degree partnership with Washington University in St. Louis.

## Job outlook

- The physics education major will equip students to become secondary school physics teachers, a well-paying job in high demand. Both nationally and in Iowa, physics teachers are in the top 10 in terms of need.
- Biophysics students can pursue jobs in academic, biomedical engineering, medical technologies, biopsychology and more.
- Graduates interested in earning a master's degree or doctorate will have a variety of options—including biomedical physics, computational biology and biomedical engineering—depending on whether they focus on biology, chemistry, math or computer science courses for their undergraduate electives.

## Explore

If you're interested in math or science, you might also explore these areas of study:

- Biology
- Chemistry
- Mathematics
- Actuarial Science