



# DEPARTMENT OF CHEMISTRY, MATH & PHYSICS

## Majors in Math and Physics

Step Forward >>>

### Why choose math or physics at Geneva?

Graduates' training focuses on the mathematics used in science and engineering, but also on the theory behind it. The physics major prepares students to explore the laws that govern the universe, including electricity, magnetism, and relativity. The entire curriculum for both programs is rooted in a Christian worldview which enables our students to combine their technical training with their understanding of God's purpose in creation, contributing through their work to the kingdom of God.

- Develop and apply your mathematical skills
- We have an introductory physics lab featuring computer-based data acquisition and analysis using LabView, 9-foot airtracks, oscilloscopes, and laser-based optics experiments
- The electronics lab supports courses in electronic design, as well as acoustics and astronomy

### What degree options are available at Geneva?

B.S. in APPLIED MATHEMATICS

B.S. in MATHEMATICS EDUCATION

B.S. in PHYSICS

SECONDARY EDUCATION CERTIFICATION (7–12) in MATH or PHYSICS—students complete a B.S. in Mathematics Education or Physics along with supplementary courses such as technology, science education methods, assessments and exceptionalities in the classroom, as well as student teaching, to achieve a teaching certificate

### What can I do with a math or physics degree?

- Support for manufacturing applications
- Scientific or pharmaceutical research
- Insurance and financial actuarial work

### What are Geneva's mathematics and physics graduates doing now?

Graduates pursue a surprisingly wide variety of careers such as forecasting, simulation, statistical analysis, national security, aerospace, and higher education. The job demand for all majors within the Department of Chemistry, Mathematics & Physics remains strong because of the rapid development and implementation of technology. Our graduates have obtained successful positions in high tech areas like computer science and electrical engineering, and gone on to graduate schools such as the University of Pittsburgh, Carnegie Mellon University and Rochester Polytechnic Institute.

### What internships are available through Geneva?

- Summer undergraduate research positions at many major universities
- U.S. Steel
- The Technology Services department at Geneva.
- Collaborations with engineering students on projects sponsored by the Center for Technology Development, which accepts real-world engineering projects from local businesses and organizations.

### What are some classes I might take at Geneva?

- Numerical Methods
- Optics
- Classical Mechanics
- Electromagnetic Fields and Waves
- Differential Equations

## Academic Organizations

- Accounting Club
- Education Association
- Math Club

## Now dig deeper...

...by visiting [www.geneva.edu](http://www.geneva.edu) to find full descriptions of majors and concentrations, read current student stories, meet the faculty, schedule your campus visit and apply for admission.

“Before Geneva ... I really was unsure about my future, probably because I was trying to be in control of it. Now coming to the Lord, I have faith about my future. It's in His hands, not mine. I feel now that I am more prepared for the future. It is through Geneva that the Lord did his work on my life. No other institution would have been able to do that.”

Ed Lum, Physics and Applied Math graduate