



# DEPARTMENT OF ENGINEERING & COMPUTER SCIENCE

ACCEPT THE CHALLENGE™

## Why choose engineering at Geneva?

Graduates of our general engineering program, which is accredited by the Engineering Accreditation Commission of ABET, [www.abet.org](http://www.abet.org), will be able to design effective solutions to engineering problems in accord with applicable standards, understand the mathematics and physical phenomena relevant to their fields and how these relate to a Christian worldview, and be familiar with state-of-the-art engineering equipment and methods relevant to their field.

- Geneva is one of only 15 CCCU schools in the nation that offers an ABET-accredited, four-year engineering program
- Engineering graduates have had nearly 100% job placement in the past 10 years.
- Engineering practice is interdisciplinary, and our general program provides broad exposure to the field.
- Our students work with industrial and governmental clients through Geneva's Pinkerton Center for Technology Development.
- Opportunities are available to participate in Solar Splash boating, Baja SAE all-terrain vehicle and Steel Bridge Building national intercollegiate competitions
- Our engineering program has been recognized as a Top 100 program in the nation two years in a row by *U.S. News & World Report*

## What degree options are available at Geneva?

- A B.S. IN ENGINEERING (BSE), with concentrations in:
- BIOMEDICAL—Design, manufacture and ensure safe operation of prostheses, various diagnostic and therapeutic medical devices, imaging equipment, equipment for regenerative tissue growth, and equipment for pharmaceutical drug delivery
  - CHEMICAL—Discover and manufacture better plastics, paints, fuels, medicines and other chemicals by carrying out chemical reactions and purifications
  - CIVIL—Design, construct and operate physical works, as well as city and regional planning
  - COMPUTER—Design, construct, implement and maintain computers and computer-controlled equipment
  - ELECTRICAL—Apply electricity, magnetism and light to develop products and services
  - ENVIRONMENTAL—Design pollution control technologies and environmental monitoring systems, as well as environmentally friendly products
  - MECHANICAL—Design, manufacture and operate components, devices and systems, including vehicles, appliances and many other products

## What can I do with an engineering degree from Geneva?

- Environmental, materials, petroleum or biochemical engineering
- Geotechnical, structural, public works, water treatment or transportation engineering
- Consumer electronics, computer systems or information technology
- Plant, power or controls engineering

## What are Geneva engineering graduates doing now?

- Working for employers such as IBM, General Electric, Westinghouse and Pratt & Whitney Aircraft
- Attending graduate school at Princeton, the University of Pittsburgh, Virginia Polytechnic Institute and Ohio State University

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

- Solid Mechanics
- Engineering Thermodynamics
- Christian Ethics and Engineering
- Linear Circuit Analysis

## Academic Organizations

- American Society of Civil Engineers (ASCE)
- American Society of Mechanical Engineers (ASME)
- Chemistry Club
- Institute of Electrical and Electronics Engineers (IEEE)

## 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.

Or contact the Admissions Office at 800.847.8255 or [admissions@geneva.edu](mailto:admissions@geneva.edu).

“In the introductory engineering course, there’s a lot about how to be a Christian engineer. You’re there to glorify God and look out for the safety of others.”

Zach Ritchie, mechanical engineering grad