



# DEPARTMENT OF BIOLOGY

Step Forward >>>

## Why choose biology at Geneva?

Our students grow in understanding of living things—structures, functions, regulation and interrelatedness. The biology department serves students by offering coursework, research opportunities, training programs and career counseling. We also teach, by word and example, a biblical perspective on the natural world, proclaiming the lordship of Christ over what He has made.

- Unique courses in neuroscience, virology, genomics and immunology
- A Biomedical Ethics course that examines some of the hottest issues in medical technology—IVF, ICSI, 3-parent embryos, surrogacy, embryonic stem cell transplantation
- Laboratory experience in genome analysis—a cutting-edge technique in medicine and research
- Labs equipped for electrophoresis, Western blot, polymerase chain reaction, tissue culture, centrifugation, lyophilization, and computerized data acquisition of human physiology indicators among other techniques
- Independent studies designed for particular career goals; e.g., pharmacology, exercise physiology, public health
- Summer courses in ecology, field biology, and land and water resources with an emphasis on Christian environmental stewardship at sites in Michigan, Washington, Costa Rica and India through the Au Sable Institute of Environmental Studies
- Graduates that apply to medical school have been accepted over 80% of the time, well above the national average
- Superior preparation for graduate school—a recent grad in a physician assistant program says, "My classmates are begging me to tutor them in immunology and microbiology; I am amazed at how well Geneva prepared me."

## What degree options are available at Geneva?

B.S. in BIOLOGY, with concentrations in:

- CELL AND MOLECULAR BIOLOGY—Research focused and intended for students interested in graduate school or careers in medical research
- ENVIRONMENTAL BIOLOGY—For students with interests in ecology, environmental biology, animal biology or plant biology
- HUMAN BIOLOGY—Focuses on human physiology for students interested in medicine, allied health programs and medical school

BIOLOGY with SECONDARY EDUCATION (7-12)—

Students complete a B.S. in Biology along with supplementary education courses and student teaching to achieve a teaching certificate

B.S. in ENVIRONMENTAL SCIENCE

ALLIED HEALTH PROGRAMS

- Biomedical Research
- Medical Technology
- Pre-Dental
- Pre-Medicine
- Pre-Nursing
- Pre-Occupational Therapy
- Pre-Optometry
- Pre-Pharmacy
- Pre-Physical Therapy
- Pre-Physician Assistant
- Pre-Veterinary

## What can I do with a biology degree from Geneva?

- Prepare for graduate and doctoral study to pursue careers such as physician assistant, physical therapist, epidemiologist, forensic scientist, M.D., D.D.S., D.M.D. and more
- Biology teacher
- Nurse

- Pharmaceutical sales
- Air, water quality or waste management
- Parks and outdoor recreation or environmental education
- Land and water conservation
- Lab technician

### **What are Geneva biology graduates doing now?**

- Attending medical school at such places as The University of Pittsburgh, Ohio University, Thomas Jefferson University, Southern Illinois University and Temple University
- Attending graduate school at such places as Case Western Reserve University, Thomas Jefferson University, Arcadia College, Chatham College, Cornell University and Oregon State University

### **What internships are available through Geneva?**

Some common internship opportunities for Geneva students include:

- Lab or animal care assistant
- Medical missions with organizations such as Gateway Hospice
- Medical experience at the Lawndale Summer Medical Project in Chicago
- Fellowships through the Au Sable Institute of Environmental Studies

### **Academic Organizations**

- Creation Stewardship 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.

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

“I see my work as my ministry. I know that most of my patients — from the two- hour- old baby whose heart is malfunctioning to the 100-year-old with peripheral vascular disease — are scared. It’s important to our patients that we fix their hearts, but almost as important is fixing their anxiety and worries and remembering that they are people before they are patients.”

Brandy (Chess) Brown, biology grad