



## Biochemistry

### Program Overview

- 4-year undergraduate program providing a strong foundation in both chemistry and biology
- Includes an in-depth 2-year upper division capstone research project providing a unique, hands on research experience in the lab, field, or clinical setting alongside a faculty member of your choice
- Ideal undergraduate degree for pre-professional preparation (pre-medical, pre-dental, pre-pharmacy)

### Why become a Biochemistry Major at Daemen College?

- Small class sizes (12:1 student to faculty ratio)
- Opportunities to participate in innovative research projects on campus with faculty
- Internships in and around Buffalo, N.Y., including at hospitals, doctors' and dentists' offices, veterinary clinics, animal shelters, and environmental firms
- Strong track record of our graduates finding jobs in their field
- Many graduates successfully apply to medical, dental, veterinary, osteopathic or other graduate programs across the country. Daemen graduates have a strong track record of being accepted into programs of their interest.

### Career Opportunities

- Professional Health (Medical doctor, Dentist, Veterinarian, Pharmacist, Pathologist)
- Research Scientist (academia, industry, government, hospital)
- Law School (Patent Attorney)
- Food Chemist

## Course List

In the first two years, students complete foundational courses in biology (General Biology I & II) and chemistry (General Chemistry I & II; Organic Chemistry I & II). The upper-division years (third and fourth year) require higher level chemistry and biology courses (core courses) as well as the opportunity to take elective courses that will better prepare you for your future career.

### CORE COURSES

Biological Organic Chemistry  
Contemporary Chemical Analysis  
General Biochemistry  
Introduction to Physical Chemistry  
Molecular Biology  
Natural Science Literature Survey  
Natural Science Research Seminar  
Scientific Language and Literacy

### ELECTIVE COURSES

Advanced Topics in Physical Chemistry	General Anatomy
Animal Behavior	General Microbiology
Biomaterials	General Physiology
Bioorganic Chemistry	Genetics
Biostatistics	Global Water Issues
Cell Biology	Immunology
Comparative Vertebrate Physiology	Inorganic Chemistry
Conservation Biology	Invertebrate Biology
Developmental Biology	Modern Instrumental Analysis
Ecology	Neurobiology I
Environmental Toxicology	Organic Chemistry III
Environmental Chemistry	Plant Biology
Evolutionary Biology	Planet Earth
Forensic Chemistry Entomology	Population Dynamics

## Recent Graduates

### CONTINUED EDUCATION

DO students at NOVA Southeastern University, Davie, FL; Ph D. in Epidemiology at University of Rochester, Rochester, NY; Ph. D. in Biomedical Sciences at Wright State University, Dayton, OH; M.S. in Toxicology from the University of Maryland, Baltimore, MD; M.S. in Chemistry, Portland State University, Portland, OR.

### CURRENT EMPLOYMENT

Postdoctoral Fellow at Wright State University, Dayton, OH; Quality Control Engineer at Genentech, Hillsboro, OR; Bacteriology Supervisor at ZeptoMetrix, Buffalo, NY; Program Manager at University at Nottingham, Nottingham, UK; Program Manager at University at Buffalo, Buffalo, NY; Postdoctoral fellow at National Cancer Institute, Rockville, MD.