

DEFIANCE COLLEGE

Molecular Biology

Bachelor of Science Degree with a major in Molecular Biology

“Phenomenal cosmic powers!
Itty bitty living space.”

Sure, the Genie in Disney’s Aladdin is talking about living in his lamp, but he might as well be talking about molecular biology.

Given the rate at which scientific information is expanding, faculty also encourage and equip students to seek out and assimilate new developments in areas of their greatest interest, and to use new knowledge and theory in their field and related fields.

Study the power in the smallest things and get ready for a big career in science or medicine.

Look at life through the microscope.

After College — What’s Next?

The molecular biology program is one of the most flexible of the natural science majors. The program prepares students for Graduate School and a variety of career opportunities in the natural science field. The molecular biology major is geared for those students interested in careers in medicine, research, veterinary science, pharmacy or similar professional careers.

701 North Clinton Street
Defiance, OH 43512
www.defiance.edu
419-784-4010
1-800-520-GO DC



“In the modern interdisciplinary world of science, molecular biology touches almost all sciences ranging from physics, chemistry and, of course, biology. Our program at Defiance College will give you the background preparation needed to succeed in a career in the sciences. This major is also the BEST preparation for most professional programs such as medicine, pharmacy, veterinary school, dental school and many others.”

Dr. Nathan Griggs
Associate Professor of Biology



At Defiance College, the molecular biology program explores the explosion of information in modern biology, focusing on the building blocks of life and how they assemble into cells, tissues, and organisms. Special attention is given to nucleic acids and proteins and the techniques currently used in industry, research and governmental labs.

Working closely with professors, students experience first-hand the cloning of genes, genetic fingerprinting, and the analysis of proteins. Student-centered learning allows majors to focus on topics that interest them and will prove valuable for their career objectives.

“For as long as I can remember, I have wanted to be a doctor. So when it came time to choose a college, I knew I needed to attend an institution that would prepare me for a future in medicine.

From the wide variety of pre-med courses offered and the dedicated professors that teach them to the numerous opportunities to participate in research and field experiences, Defiance College has done just that. I was accepted to my first choice medical school - as a junior! I graduated from the University of Toledo College of Medicine at the top of my class!”

Erica (Anspach) Sprague, M.D.
Medical Resident in OB/GYN
St. Vincent Women’s Hospital
Indianapolis, Indiana

www.defiance.edu/pages/NS_majors_molecular_biology.html

The Faculty

Nathan Griggs, Ph.D.
Associate Professor of Biology
419-783-2592 | ngriggs@defiance.edu

Douglas D. Kane, Ph.D.
Assistant Professor of Biology
419-783-2593 | dkane@defiance.edu

Kenneth Adair, Ph.D.
Assistant Professor of Chemistry
419-783-2598 | kadair@defiance.edu

Somnath Dutta, Ph.D.
Associate Professor of Chemistry
419-783-2428 | sdutta@defiance.edu

Additionally, part-time instructors may teach specialized courses.



"The faculty provides our students with the broad scientific skills they will need for careers in the medical field. Students will find that their educational goals are supported by an approachable faculty that is committed to their success."

Dr. Kenneth Adair
Assistant Professor of Chemistry

- BI 120, 129 Principles of Biology I & II
- BI 235, 236 Anatomy and Physiology I and II OR
- BI 357, 367 Comparative Vertebrate Anatomy and and Vertebrate Physiology
- BI 320 Ecology
- BI 358 Microbiology
- BI 431 Molecular Biology
- BI 480 Genetics
- CH 123, 124 General Chemistry I & II
- CH 233, 234 Organic Chemistry I & II
- CH 368 Biochemistry I
- NS 198 Natural Science Seminar
- NS 391 Internship
- NS 499 Senior Capstone
- PH 210, 220 Physics I & II
- MA 201 Calculus I
- MA 306 Probability and Statistics OR
- PY 230 Behavioral Statistics

Pre-Professional Programs

The Science and Mathematics Division at Defiance College offers pre-professional programs in the areas of Medicine, Veterinary, Dentistry, Optometry, Chiropractic, and Podiatry. Upon completion of the program, you would be prepared to take entrance exams and apply to any graduate professional schools in these areas. The pre-professional program offers all the classes required for acceptance into professional and graduate schools. Our students have had great success getting into these programs because of the depth of their knowledge gained here. This is made possible due to small class sizes, tailored individual instruction and undergraduate research opportunities.

Course selection is individualized from a broad range of science courses and internships.

Defiance College admits students regardless of race, color, creed, sex, national or ethnic origin, disability, or sexual orientation. 6/11

The Courses



Students in the sciences take those concepts mastered in the classroom and apply them to the laboratory. This complementary approach to learning makes DC science students succeed.

"Studying molecular biology at Defiance College has helped to prepare me for the rigors of medical school. My professors were great and were dedicated to helping me succeed!"

Nigel Hogan
First year student at
Ohio University College
of Osteopathic Medicine



Nigel Hogan explains his senior capstone research project to other science students.

Come for a Visit!

A campus visit is the best way to find out how Defiance College defies the ordinary college experience. We'll arrange for you to meet with an admissions counselor, professors, coaches, students, and learn about scholarship and financial aid opportunities. You can sit in on a class, tour campus, and stay overnight if you wish. Call our Office of Admissions at 419-783-2359 or 1-800-520-GO DC to set up your appointment.