

Molecular Biology

The molecular biology major at Stetson University is designed for students interested in the interface between the life sciences and physical sciences. Molecular biology is an interdisciplinary science that uses the techniques of biology and chemistry to examine experimental systems at the molecular level.

Molecular biologists are using genomic and proteomic research and recombinant DNA to understand disease, increase food production, develop new pharmaceuticals, study ways to reduce pollution and discover more about cellular activities.

A Distinctive Program

Molecular biology at Stetson University focuses on the interface between biology and chemistry, looking at problems from a cellular and molecular perspective, in particular, the role of evolution on the changes observed among organisms. A mandatory senior research project and senior seminar give students opportunities to develop critical thinking, laboratory skills and communication skills valuable to future careers in research and other health-related fields.

Fast Facts

Available for: Major

Emphasis Within the Major:

molecular ecology, protein regulation, cell signaling

Popular Second Majors

Chemistry

Public Health

Health Sciences

» [Program Website](#)

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Academics and Research

Student Research

At Stetson University you will work closely with a faculty member on a research project. Students are encouraged to participate in the Stetson Undergraduate Research Experience, in addition to the mandatory requirement of presenting data from your research project at the Stetson Showcase.

Recent senior projects in molecular biology have focused on phylogeographic studies of aquatic insects based on mitochondrial DNA, repair of UV damage to DNA in photosynthetic microorganisms and examining anti-cancer properties of plant-based compounds.

Facilities and Opportunities

The major is administered through the biology department. Molecular biology majors have access to a wide variety of equipment, such as light microscopy, protein and nucleic acid imaging and analysis, fluorescent and bioluminescent enzyme activity, cellular electroporation, flow cytometry, gene analysis and polymerase chain reaction. Many students earn the opportunity to attend and present papers at specific meetings, such as the Association of Southeastern Biologists (ASB) and the Florida Undergraduate Research Conference (FURC), and to co-author a manuscript with faculty members.

After Stetson

Diverse Careers

Stetson University molecular biology majors are trained to be scientists. Most graduates pursue advanced degrees leading to careers in pharmacology, biochemistry, molecular biology, agricultural research or biotechnology. Others pursue careers in the health professions including medicine, veterinary medicine and dentistry.

Our students have studied at University of Chicago, University of Florida, University of Central Florida, University of Iowa, Kansas State University and the University of Pittsburgh, among others.



More Information



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