

Biology

High-powered Research



SYLVIA SARPONMAAH

fast-track careers

Biology, the study of living systems, opens the door to many professions. Through our program's emphasis on research and personal attention, you'll gain the knowledge and skills you need for a dynamic career.

"I PERFORMED RESEARCH ON THE ROLE OF HPV IN CERVICAL CANCER. MY EXPERIENCE AT CLARKSON HELPED ME LAND A SUMMER FELLOWSHIP AT HARVARD AND A JOB AT WASHINGTON UNIVERSITY. NOW, I'M LOOKING FORWARD TO GRADUATE SCHOOL."

— SYLVIA SARPONMAAH '07

INTERESTED IN BIOLOGY?

Possible career pathways for Biology majors include opportunities in medical professions, biomedical research, bioinformatics, microbiology, genetic counseling, bioengineering, biotechnology, environmental health science, and ecology. You may find you're working in some exciting and rather unconventional settings. Imagine managing a high-tech DNA sequencing laboratory automated by robotic instrumentation, searching for new species in a tropical rain forest, treating patients in a hospital operating room, or exploring a hydrothermal vent deep in the ocean.

CAREERS IN BIOLOGY

Career choices are virtually unlimited. An undergraduate degree can take you directly into industry or government as a researcher or lead to work in pharmaceuticals, biotechnological engineering, technical sales, or consulting for laboratory equipment producers. A degree in biology is also excellent preparation for medical,

veterinary or dental school or for graduate studies in physical therapy or any of the sciences. Of course, teaching is always an option.

PERSONAL ATTENTION IN A RESEARCH ENVIRONMENT

Clarkson combines two distinctive strengths that benefit students: personalized instruction and high-powered research.

With a 16:1 faculty-to-student ratio, our professors get to know students as individuals. Faculty members conduct world-class research in areas of vital importance — and involve undergraduates in the process!

REAL-WORLD SCIENCE

Clarkson takes a technological approach to learning. Because you focus on the creative application of

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Clarkson
UNIVERSITY
defy convention®



MATT WILLIAMS



“MY RESEARCH EXPERIENCES HERE HELPED ME TO EARN A SCHOLARSHIP FROM THE EPA WHILE AT CLARKSON AND A DOCTORAL FELLOWSHIP FROM VIRGINIA TECH.”

— MATTHEW WILLIAMS '07
PH.D. CANDIDATE AT VIRGINIA TECH

knowledge and skills to solve current, real-world problems, you gain:

- practical laboratory experience
- teamwork and leadership skills
- practice in creative problem solving
- techniques in research and analysis
- skills in applying what you know

A RIGOROUS BUT FLEXIBLE CURRICULUM

Our biology curriculum focuses teaching and research on how biological systems function and interact. It revolves around three main areas: health, the environment, and biotechnology. First- and second-year courses provide interactive classroom and laboratory experiences in the fundamentals of biology, chemistry and physics, as well as math and liberal arts.

In their junior and senior years, students choose upper-level biology courses that best suit their individual career objectives. Some pursue a special interest in engineering or related sciences. Representative course offerings include: genetics, microbiology, comparative anatomy, neurobiology, molecular biology, biochemistry, biotechnology,

ecology, animal behavior and cognition, human physiology, advanced cell biology, and limnology/aquatic ecology.

If you're interested in the business side of biology or biotechnology, you might also consider our five-year program combining an MBA with a B.S. in biology. Pre-Medicine and Pre-Health Science advising is also available, including preparation for Clarkson's own Doctor of Physical Therapy degree.

CRITICAL THINKING AND PROBLEM SOLVING

Many of our laboratories and courses are inquiry-based. Under close guidance of faculty, you learn how to ask key questions, interpret data, and find answers on your own.

All Clarkson biology majors have the opportunity to work closely with faculty on important, relevant biological research problems. In addition to being dedicated teachers, all of our faculty members are engaged in cutting-edge research. In the research lab, you will learn how to identify problems, design experiments to address them, critically analyze data, and communicate your findings. Our unique professional experience requirements offer students the chance to prove themselves in the real world before graduation. That gives them an edge for success.

“THE BEST PART OF THE PROGRAM AT CLARKSON IS KNOWING THAT I CAN APPROACH MY PROFESSORS AT ANY TIME TO DISCUSS ISSUES RELATED TO SCHOOL OR MY FUTURE AND THEY WILL ALWAYS MAKE TIME FOR ME.”

— KARYN BLAKE '08

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KARYN BLAKE
Pre-Physical Therapy

FOR MORE INFORMATION CONTACT:

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