



GRADUATE STUDIES

Biology



JOIN OUR COMMUNITY OF SCHOLARSHIP AND RESEARCH

Join the Department of Biology at Villanova for research training and advanced coursework in a broad range of the biological sciences. The graduate programs in Biology will prepare you for a life of continuing inquiry and are built on the principle that science is an ongoing human endeavor that encompasses research, learning and teaching. Our graduate programs seek to build a diverse, intellectual community that enhances the scholarship of all members.

CHOOSE YOUR COURSE OF GRADUATE STUDY

Master of Science in Biology

- Degree requires 30 credits, including a minimum of 20 in coursework and the remainder in thesis research
- Program culminates with an original written thesis that you will prepare under the direction of a faculty mentor and two additional committee members
- Most MS students receive stipend and tuition waiver

Master of Arts in Biology

- Degree requires 33 credits, with no thesis requirement
- You may choose a concentration in Cell, Molecular and Developmental Biology (CMDB) or Ecology, Evolution and Organismal Biology (EEOB)
- Research available in all areas of biology
- Program culminates in a comprehensive written and oral examination

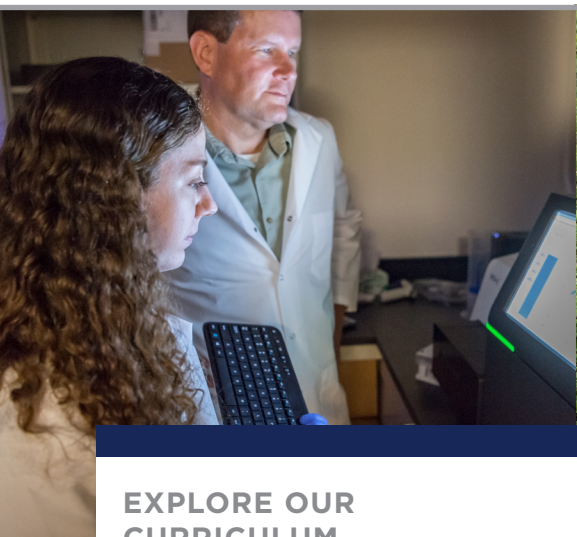
Certificate Programs

If you want to develop a particular skill set or explore further options for study, you may choose one of our graduate certificate programs. You may complete the certificate programs on a full or part-time basis, and coursework generally focuses on one of two areas, CMDB or EEOB. The Certificate of Graduate Study requires 16 credit hours, including at least three lab courses. The Certificate of Advanced Graduate Study requires 24 credit hours, including at least four lab courses.

WHAT OUR STUDENTS SAY

“The faculty at Villanova are incredibly accomplished and passionate about their field, and are respected members of their scientific communities. After seeing them excel in both research and teaching, I look to them as examples of the kind of scientist I want to be in my career.”

— Emily Geoghegan '19 MS



EXPLORE OUR CURRICULUM

Recent course offerings include:

- Advanced Bacteriology
- Biodiversity and Systematics
- Biology of Aging
- Biomechanics
- Biostatistics and Experimental Design
- Cancer Biology
- Directed Research
- Ecosystem Ecology
- Endocrinology
- Functional Morphology
- Genomics
- Imaging Technology
- Immunology
- Molecular Evolutionary Genetics
- Neurophysiology
- Pharmacology, Experimental Cell/
Molecular Methods
- Plant Ecophysiology
- Reptile Evolution
- Stem Cells
- Thesis Research

You will find a complete list of courses at gradbio.villanova.edu.

RESEARCH WITH OUR DISTINGUISHED FACULTY

Cellular, Molecular and Developmental

ANIL BAMEZAI, PhD

Immunology

SARAH FRITZ, PhD

RNA biology

MEGAN POVELONES, PhD

Molecular parasitology

LOUISE RUSSO, PhD

Cell Biology

TROY SHIRANGI, PhD

Developmental biology

JAMES WILSON, PhD

Bacterial pathogens

DENNIS WYKOFF, PhD

Molecular genetics of yeast

MATTHEW YOUNGMAN, PhD

Molecular genetics of aging

Ecology and Evolution

SAMANTHA CHAPMAN, PhD

Ecosystem ecology of coastal wetlands

ROBERT CURRY, PhD

Behavioral and conservation biology

Ecology and Evolution (continued)

VIKRAM IYENGAR, PhD

Entomology, mating systems

DANA OPULENTE

Microbial ecology, bioinformatics

MICHAEL RUSSELL, PhD

Marine biology

ADAM LANGLEY, PhD

Global change ecology

R. KELMAN WIEDER, PhD

Peatland biogeochemistry

Organismal

AARON BAUER, PhD

*Phylogenetics & biogeography of
squamate reptiles*

STEPHANIE CAMPOS, PhD

Animal behavior, neuroethology

TODD JACKMAN, PhD

Evolutionary genetics

JOHN OLSON, PhD

Bird and mammal ecophysiology

ALYSSA STARK, PhD

Functional morphology and biomechanics

FOR MORE INFORMATION OR TO APPLY:

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