



Biology

College of Arts and Sciences

Degree Options

Bachelor of Science in Biology
Basic Medical Science
General Biology
Pre-Physical Therapy/Pre-Occupational Therapy/
Pre-Physician's Assistant/Pre-Health
Plant Biology
Ecology and Evolutionary Biology
Biology Education
Entomology

Minors

Biology

Certificates

Certificate in Quantitative Biology

Student Clubs of Interest

Biology Club
Zoology Club
Scientista
Raptor Club and Rehabilitation Program
Pre-Health Professions:
Minority Association of Pre-Health Students (MAPS)
Pre-Dental Club
Pre-Health Club
Pre-Nursing Club: Rho Nu
Pre-Pharmacy Club
Pre-Physician Assistant Club
Pre-PT/OT Club
Pre-Vet Club (AKA Organization of Future Veterinarians)

Career Options

Medicine, dentistry, and health fields
Physical and occupational therapy
Pharmacology, nutrition and dietetics
Veterinary medicine and animal care
Fisheries and wildlife ecology
Plant biology, agriculture, and horticulture
Entomology
Conservation and resource management
Environmental assessment
Ecological restoration
Biotechnology and genetic engineering
Forensics and pathology
Public policy, science writing, journalism
Science education

Certification Requirements

24 completed semester credits
2.0 minimum grade point average

Suggested Classes for First-Year Students

Two science classes
OR
One science and one math
PLUS
Two non-science classes each semester

Suggested Classes for Transfer Students

Core biology, physical sciences, mathematics, and statistics requirements and electives

Math Requirement

Math 140: Calculus for Life Scientists
OR
Math 171: Calculus I

Core Courses

Biology 106: Introductory Biology: Organismal Biology
Biology 107: Introductory Biology: Cell Biology and Genetics
Biology 301: General Genetics
Biology 372: General Ecology
Biology 405: Principles of Organic Evolution
Chemistry 105: Principles of Chemistry I
Chemistry 106: Principles of Chemistry II
Chemistry 345: Organic Chemistry I
Math 140: Calculus for Life Scientists
Physics 101 and 102: General Physics
Statistics 212: Introduction to Statistical Methods
OR
Statistics 412: Statistical Methods in Research

Program Strengths

- Build a strong foundation in the sciences.
- Use options to focus on depth and breadth of interest areas.
- Courses cover biology, including molecular and cell biology, physiology and development of animals and plants, conservation biology, disease biology, genetics and genomics, taxonomy and systematics, ecology, and evolutionary biology.
- Small class sizes in advanced courses.
- Opportunities for one-on-one research with biology faculty, including field and laboratory experiences.
- Gain skills in research design, data analysis, DNA and cell biological techniques, physiological diagnostics, ecological and environmental assessment, phylogenetic and evolutionary analysis, global complex systems analysis, computer modeling and simulations, scientific writing, and professional communications.
- Prepare for graduate and professional schools.
- Math, science, and engineering community residence halls with other entering students in shared classes provide opportunities for group study, free tutoring, and computer lab access.
- Conner Museum of Natural History and Marion Ownbey Herbarium offer specimens of animals and plants for research and study.

For more information:

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Notes: