Biology

College of Arts and Sciences

Degree Options
Bachelor of Science in Biology
- General Biology
- Pre-Physical Therapy/Pre-Occupational Therapy/ Pre-Physician's Assistant/Pre-Health
- Botany
- Ecology and Evolutionary Biology
- Biology Education
- Entomology

Minors
Biology

Certificates
Certificate in Quantitative Biology

Student Clubs of Interest
Biology Club
Zoology Club
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

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Program Strengths

- Build a strong foundation in the sciences.
- Use options to focus on 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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