Degree
Bachelor of Science in Biology

Degree Options
Basic Medical Sciences
General
Pre-Physical Therapy/Pre-Occupational Therapy/Pre-Physician’s Assistant
Plant Biology
Ecology and Evolutionary 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
- Ecologist
- Botanist
- Biotechnology and genetic engineering
- Forensics and pathology
- Public policy, science writing, journalism
- Science education

Admission to the Major Requirements
Admission to the Biology major requires a 2.0 GPA at WSU.

Suggested Classes for First-Year Students
Two science or math 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
  OR Biology 370: Ecology of Health and Disease

Biology 395: Evolutionary Medicine
  OR Biology 403: Evolutionary Biology
  OR 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
  OR Math 170: Calculus I

Physics 101 and 102: General Physics
  OR Physics 201 and 202: Physics for Scientists and Engineers

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.

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