

Biological Science

Curriculum

Biological Science is a holistic degree program encompassing three of the life sciences. It is administered by the Department of Integrative Biology. The degree program prepares students for a wide range of employment opportunities in fields such as conservation, environmental consulting and management, education, forensic sciences, health care and related industries. The degree is also an excellent choice for those applying to graduate school and professional programs.

Biological Science majors develop the following skills:

- Understanding the basic principles of life sciences including ecology, evolution, genetics and cell biology
- Advanced knowledge in botany, microbiology and zoology.
- Critical thinking ability to summarize and evaluate basic information on biological systems
- Ability to present scientific information clearly and concisely

Job and Internship Websites

- American Institute of Biological Sciences
<http://www.aibs.org/careers/>
- Biology jobs
<http://biology.jobs.net>
- Ecoemploy
<http://www.ecoemploy.com/jobs/>
- Ecolog Listserv
<https://listserv.umd.edu/archives/ecolog-l.html>
- Environmental Career Opportunities
<http://www.ecojobs.com>
- Environmental Career Organization
<http://www.eco.org>
- Fed. of American Society for Experimental Biology
<http://careers.faseb.org>
- Job Watch, Clinical Research jobs
<http://centerwatch.com/jobwatch/>
- National Parks Service
<http://www.nps.gov/aboutus/workwithus.htm>
- Oklahoma City Zoo
<http://www.okczoo.com>
- Research Gate
<http://researchgate.net/jobs/>
- Science Jobs
<http://www.newscientistjobs.com>
- Science Careers/Jobs
<http://jobs.sciencereaders.org>
- Society for Conservation Biology
<http://www.conbio.org/professional-development>
- Society for Integrative and Comparative Biology
<http://www.sicb.org/careers>
- State Jobs
<http://www.state.ok.us>
- The Student Conservation Association
<http://thesca.org>
- TAMU Wildlife and Fisheries Jobs Board
<http://wfscjobs.tamu.edu/job-board/>
- Tulsa Zoo
<http://www.tulsazoo.com>
- USA Jobs
<http://www.usajobs.gov>
- US Army Corps of Engineers
<http://www.usace.army.mil/careers.aspx>

Get Involved

Beta Beta Beta (Honor Society)
Alpha Epsilon Delta
American Medical Student Association
American Student Dental Association
OSU Botanical Society
Advancing Women in Science
ECO-OSU
Environmental Science Club
OSU Wildlife Society
Pre-Health Professionals Club
Pre-Veterinary Club
Pre-Optometry Student Association
Pre-Pharmacy Student Association

<https://campuslink.okstate.edu>

College of Arts & Sciences Career Services

213 Life Science East
Tel: 405 744 5658

For appointments and resources:
<http://cascareers.okstate.edu>

Environmental management and conservation: Biologists pursuing careers in management and conservation focus on solving environmental challenges and preserving our planet for future generations. Career opportunities can be found in a wide range of areas such as private sector jobs in ecology or preservation, wildlife rehabilitation or rescue facilities, federal and state parks and agencies or not-for-profit organizations.

Education: Life science educators can work with students of all ages in a variety of settings. Biologists can find opportunities in the classroom, in the field or in a research laboratory. Biologists may also communicate science to the public. For example, they might create educational exhibits for museums or health centers, serve as consultants, write science articles published in newspapers, magazines and books or develop educational films and television programs.

Aquariums, parks, nature preserves, botanical gardens, museums and zoos: Scientists might lead tours and nature hikes or they might teach informational programs for the general public. Not only do biologists teach complex subjects to their general audiences, but they also might be required to write grants, write informative articles, create exhibits and work with community leaders or supporters.

Health Care: Biologists frequently continue their education with specialized training and pursue careers in dentistry, medicine, nursing, optometry, physical therapy, pharmacy, veterinary medicine and other related fields.

Research: Researchers study the natural world using the latest scientific tools and practices. Research can focus on natural biological systems or be applied to human health issues and challenges.

Biotechnology, business and industry: Biologists apply scientific principles to develop and enhance products, tools and technological advances in fields such as agriculture, food science and medicine. Scientists may work in genetic engineering, pharmaceutical development, or medical technologies, such as nanomedicine, or as a lab technician. Scientists can work with drug companies, manufacturers or developers of products and services in the testing, development and production stages.

Forensic Science: Biologists who focus on forensics typically work with police departments and related law enforcement agencies. Biologists in this field often specialize in odontology, anthropology or crime scene examination.

Politics and Policy: Biologists may work with congressional representatives to facilitate the development of new legislation on a variety of topics including conservation and preservation, biomedical research and other related areas as consultants or political advisors.

Adapted from:

American Institute of Biological Sciences
<http://www.aibs.org/careers/>

The Society for Integrative and Comparative
Biology Educational Council
<http://www.sicb.org/careers/faqs.php3>

The American Physiological Association
www.the-aps.org

Many careers require additional education or specialized training.

Types of Employers

- Environmental/Outdoors
- Government and Education
- Research and Health
- Aquariums/Marine Parks
- Agricultural Departments
- Chemical Industries
- Botanical Gardens
- Colleges and Universities
- Forensic Science Labs
- Hatcheries
- Corps of Engineers
- Pharmaceutical Companies
- Museums
- Energy Companies
- Hospitals/Clinics
- National and State Parks
- Food Processors
- Health and Human Services
- National Science Foundation
- Peace Corps
- Medical Offices or Services
- Nurseries
- Libraries
- Medical Supply Companies
- Research or Medical Laboratories