

# LOVE your major | Biology

Will climate change impact life on earth? Why is it so hard to cure cancer? What plants make our water supply more sustainable? Can we find a vaccine for HIV? Can we restore prairies?

How would you like to study all of these questions? With a major in UNO's Biology Department you can! Faculty and students in Biology address these and many other major questions in their research programs, and translate findings into real solutions.

Notice how most questions in Biology involve more than one area of expertise? Biology and Bioinformatics, Biology and Sustainability, Biology and Biomedicine, Biology and Environmental Studies, Biology and Neuroscience; today's questions require multi-disciplinary teams. UNO's Biology programs provide opportunities to join multi-disciplinary teams in research and in the classroom. That is how our students access careers in medicine, sustainability, environmental assessment, biomedical research and over 100 other exciting areas.

So if you're interested in solving real-world problems, doing cutting edge research and setting yourself up for a promising career, join us in Biology!

## Majors Available in Biology:

- Biology
- Biotechnology
- Environmental Studies
- Bioinformatics
- Neuroscience

## KNOWLEDGE & SKILLS GAINED AS A BIOLOGY MAJOR:

### Knowledge

- Appreciation for the diversity of life on earth
- Understanding the flow of energy and matter in biological systems
- Understanding the process and outcomes of evolution
- Observing of the interdependence of living things
- Strategies for sustainable living
- Understanding the role of biology in addressing societal issues
- Understanding the mechanisms of genetic inheritance and information flow
- Observing emergent properties of complex biological networks
- Understanding structure-function relationships from molecules to ecosystems

### Skills

- Design, conduct and interpret scientific research
- Isolate and analyze DNA, RNA and protein
- Sequence genomes
- Conduct statistical analysis
- Apply a scientific approach to problems
- Communicate findings using models, charts and graphs
- Communicate new research findings to lay audiences
- Communicate biological research findings using scientific writing

## Biology Major at a glance:

Number of majors: 750      Credit hours needed: 36-45  
Degrees offered: B.A. & B.S.      Minors offered: Yes (26 credits)

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## Career Opportunities

By nature, Liberal Arts majors make great employees in any field because of their ability to communicate effectively, think critically and solve complex problems. These timeless skills make them attractive to employers in a variety of professions. Specifically though, Biology majors often pursue careers as:

- Forest Service Biologist
- Environmental Consultant
- Laboratory Research Technician
- Scientific Sales
- Park Service Biologist
- Technical Service Representative
- Technical Writer
- Over 100 different health careers \*
- High School Teacher or College Professor \*

\* May require graduate study

When the Biology major is matched with complementary minors and thoughtful internships, new possibilities arise. A few examples are:

- **Biology** + computer science = High-tech Biological research
- **Biology**+ gerontology = Nursing Home Coordinator
- **Biology** + business= Industry jobs of all types
- **Biology** + English = Technical Writer

## Student Opportunities

- Environmental Studies Club
- Nebraska Watershed Network
- Anatomy Academic Assistants
- Pre-Health Professionals Club
- Students United for Global Health
- Women in Science Technology Engineering & Mathematics
- Several student scholarships available

### Did you know?

- The Biology Department manages over 340 acres of preserve land available for classes and research.
- Your Body has around 37 trillion cells and about 10 times that number of bacterial cells.

### For more information:

For program information, contacts and course requirements:  
[www.unomaha.edu/biology](http://www.unomaha.edu/biology)

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