Biology Bachelor of Science

NAU NORTHERN ARIZONA UNIVERSITY

nau.edu/transfer



Start at the **Community college**

Northern Arizona University, in partnership with Arizona community colleges, allows you to complete your associate degree before transferring to NAU to earn your **Bachelor of Science in Biology**. Courses are offered through NAU at Scottsdale Community College.

Gain new knowledge and skills

Biology is the study of living organisms—their development, evolution, interactions, structure, and organization. This major offers a balanced, comprehensive, and modern approach to biology, emphasizing a critical analysis of information and integration among subdisciplines.

Advance your career

This comprehensive biology degree offers a multitude of exciting career paths and prepares you for professional opportunities in biology, including biological research, conservation biology, and wildlife management. This degree will also prepare you for admission to advanced programs in biology, dentistry, medicine, pharmacy, teaching, veterinary science, and academic research.

Get started

Find your NAU coordinator at **nau.edu/coordinators**, or contact University Admissions at **admissions@nau.edu**.



Finish your degree with NAU

Complete your degree

Transfer to NAU and finish your bachelor's degree after completing an associate degree at Scottsdale Community College. NAU will accept up to 75 transfer credits for your biology degree.

What to expect as an NAU student:

- **class days and times**: typically two evenings per week (usually Mondays and Wednesdays, or Tuesdays and Thursdays, from 6–8 p.m.)
- location: NAU at Scottsdale Community College
- **course delivery:** hybrid format with each course incorporating in-person and online instruction
- term schedule: sessions in the spring and fall terms

Beginning fall 2023, the Access2Excellence (A2E) program at Northern Arizona University will guarantee tuition coverage for every undergraduate Arizona resident with a household income up to \$65,000, and for all eligible members of Arizona's 22 recognized Tribes, regardless of income. **nau.edu/A2E**

For more information on A2E or other financial aid opportunities, please contact us at **Financial.Aid@nau.edu**.



Our professors bring up controversies and encourage us to talk through them. They allow me to be myself—not just me but other students, too. And allow us to follow our interests. I don't feel like I'm stuck in a cookie-cutter position. They find our interests and present opportunities specifically for those interests. I think that's so special."

– Sophia Alme, BS Biology, '22, NAU at Scottsdale Community College

NAU courses

Biology and chemistry courses



Entomology

Explore the classification, identification, ecology, physiology, and economic importance of insects.



344

Foundations of Physiology

Analyze the function and integration of animal tissues, organs, and organ systems in the maintenance of homeostasis.

B Cellular and Molecular Biology

Learn the organization and function of biological molecules, cell diversity, cell structure and function, and cell interaction differentiation.

BIO 350

Molecular Genetics

Study genetics from a molecular and microbial perspective: gene structure, expression, control, mutation, and recombination; and advances in genetic engineering.



Writing in the Biological Sciences

Practice biological writing for both technical and non-technical audiences, with the goal of fostering effective communication of scientific information.

BIO 374

424

Economic Botany

Survey plants used by humans, including plant parts or products used, and their geographic origin and distribution.

BIO Evolutionary Vertebrate Biology

Understand the vertebrate structure with emphasis on phylogeny and function.

BIO 435 CAPSTONE

Advanced Evolutionary Theory

Examine advanced concepts in evolution: the origin of variation, natural selection, population genetics, species concepts, patterns and rates of lineage diversification, methods of phylogenetic analysis, and mathematical approaches to understanding evolution such as neutral theory.

BIO Conservation Biology Discover the scientific basi

Discover the scientific basis for conserving and managing biological diversity, emphasizing applications of ecology, drawing on other scientific disciplines, and integrating public policy and sociological issues.



Ecological Sampling and Monitoring

Become familiar with general concepts and techniques in ecology. Survey species and phenomena that characterize aquatic, terrestrial, and/or transition ecosystems. Learn basic sampling, monitoring, hypothesis testing, and experimental procedures with an emphasis on data organization and analysis that exemplify best practices in ecology.



Microbial Ecology

Focus on the population, community, and ecosystem ecology of microorganisms. Emphasis is on interactions with plants and animals and the roles of microorganisms in ecosystem processes.



Undergraduate Research

Conduct research under the supervision of a faculty research advisor. Must have research mentor approval prior to departmental consent.

CHM 360

Fundamental Biochemistry

Gain an understanding of the principles of biochemistry, emphasizing biologically important compounds and their functions and metabolism in living cells.

Earn your biology degree and apply to medical school following the completion of these courses and their lab components:

BIO 201 Human Anatomy/Physiology I BIO 202 Human Anatomy/Physiology II



Plan for a smooth transfer to NAU

- Save time and money as you work toward your bachelor's degree.
- Maximize the credits that transfer to your degree program.
- Receive personalized guidance to stay on track.
- Potentially qualify for a 2NAU scholarship.

nau.edu/2nau

Notes

Northern Arizona University (NAU) and The Vlaricopa County Community College District (MCCCD) are EEO/AA institutions and do not disemininate on the basis of race; color, religion, sex, sexual orient rafio, gender identity, age, disability, national ongin, veteran status or genetic information in their programs or activities. For The IW504 concerns regarding MCCCD, call the following number to reach the appointed coordinator. 480-731-8499. For additional information, visit **maricopa.edu/non-discrimination**. For Title IX504 concerns regarding NAU, call the following number to reach the appointed coordinator. 928-523-3312, For additional information, visit **maricopa.edu/non-discrimination**. For Title IX504 concerns regarding INAU, call the following number to reach the appointed coordinator. 928-523-3312, For additional information, visit **maricopa.edu/non-discrimination**. For Title IX504 concerns regarding NAU, call the following number to reach the appointed coordinator. 928-523-3312, For additional information, visit **maricopa.edu/non-discrimination**. For Title IX504 concerns regarding NAU, call the following number to reach the appointed coordinator. 928-523-3312, For additional information, visit **maricopa.edu/non-discrimination**. For Title IX504 concerns regarding NAU, call the following number to reach the appointed coordinator. 928-523-3312, For additional information, visit **maricopa.edu/non** for additional information.