

## VISION

The Life Sciences degree from ASU's New College of Interdisciplinary Arts and Sciences prepares students for entry to post-baccalaureate programs in human or veterinary medicine, dentistry, pharmacy and other health-related professions, master's and doctoral programs in biology, and for employment with state and federal agencies or private organizations, including biomedical, pharmaceutical, and agricultural laboratories or environmental consultants. It also prepares students to teach science at the elementary or secondary school level.

The department explores and teaches biology, chemistry, geology and physics by highlighting the important linkages among these disciplines. An increasingly complex and expanding world demands that successful students be exposed to multiple and diverse perspectives of science. The innovative multidisciplinary focus of the Life Sciences program at New College helps to prepare students for these demands. Students who graduate from the program will possess a deep knowledge of biology, as well as the fundamental interrelationships between biology and other sciences.

## ABOUT ARIZONA STATE UNIVERSITY

Arizona State University is one of the premier comprehensive universities in the nation. We are leading the transformation of American higher education through a model that is academically rigorous and embraces the educational needs of the entire population, not just a select group. We are a force for discovery, turning students into innovative leaders who will shape the future. We take responsibility for the economic, social, cultural and environmental health of the communities we serve, and we conduct research by considering its impact on the public good.

ASU's New College of Interdisciplinary Arts and Sciences prepares students to take their place as independent thinkers and active participants in a rapidly changing world. Its programs provide the skills necessary for effective expression and a greater understanding and appreciation of diverse cultures, both past and present. New College imparts to its students a sensitivity to the artistic dimension of human expression and the natural environment, as well as providing them with a greater understanding of scientific inquiry. The integrating theme of New College is a focus on social concern and community engagement.

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This publication is available in alternative format upon request.

 New College of  
Interdisciplinary Arts & Sciences  
ARIZONA STATE UNIVERSITY

**NEW COLLEGE**  
OF INTERDISCIPLINARY ARTS  
AND SCIENCES

**LIFE SCIENCES**  
BACHELOR OF SCIENCE

 ARIZONA STATE  
UNIVERSITY

CLARITY  
persistence

## PROGRAM OVERVIEW

The program is integrated and interdisciplinary in scope, from its faculty to its students to its course offerings. It is housed within a department featuring accomplished and acclaimed scientists.

In addition to traditional lecture and laboratory courses, the program provides a strong emphasis on hands-on, experiential learning. Students work alongside faculty in conducting laboratory and field research and have access to a number of internship opportunities. Students who pursue independent study in the department are among the most successful at gaining entrance to graduate school, professional school and careers. The results of their research projects may be published in top scientific journals and students may be asked to present their work at regional and national scientific meetings.

A minor in Life Sciences is also offered.

## PROGRAM REQUIREMENTS

Requirements for Life Sciences include core courses, cognate courses and distribution courses. A total of 70 credit hours is required for graduation.

Core requirements include courses with laboratories in:

- Biology
- Cell Biology
- Ecology
- Genetics

Cognate requirements include courses in:

- Chemistry
- Math
- Physics

Upper-level distribution requirements include courses in:

- Cellular, Molecular, and Physiological Biology
- Integrative Systems Ecology
- Organismal Biology

## INTERNSHIP

The Life Sciences program administers a variety of internships during the academic year and in the summer. While not required, internships are highly recommended as they will better prepare students for the workplace, and will give students a competitive edge when applying to professional or graduate school. Students have conducted internships with high-profile companies such as Scottsdale Healthcare, TGEN, Bolin Laboratories, Sun Health Research Institute. Additionally, the Arizona Department of Environmental Quality, Phoenix Zoo, Luke Air Force Base, and the Arizona Game & Fish Department have provided real-world internships. With input and guidance from Life Sciences faculty, it is the responsibility of the student to find and develop such internship opportunities. Internships often have specific course prerequisites and require approval by the Department of Integrated Natural Sciences and the participating organization. This approval must be obtained prior to the semester in which the internship is undertaken. Up to six credits of internship or other experiential coursework may be counted toward the Life Sciences degree.

## CAREER POTENTIAL

A degree in Life Sciences provides broad training in laboratory, data-gathering, writing, communication, quantitative, problem-solving, and critical-thinking skills that prepare students for a wide variety of careers. A broad understanding of the intricate connections of the sciences helps prepare students with multiple and flexible skills to effectively function in this environment, giving graduates the necessary competitive edge.

Graduates may enter careers in laboratory or field research, business, scientific journalism, publishing, teaching and medicine. Laboratory technician or research associate positions are available in university and government research laboratories; hospital and diagnostic laboratories; and pharmaceutical, biotechnology, agricultural, and food processing companies. Laboratory experience at the undergraduate level, available in labs on and off campus, will enhance employment opportunities in these areas. Students who emphasize field studies may prepare themselves for entry level positions in private companies as well as state and federal agencies. These positions include wildlife biologist, environmental consultant, and conservation officer. Participation in internships in government agencies or private companies as an undergraduate will provide the student with the necessary experience potential employers demand.

A bachelor's degree in life sciences is a logical choice for careers in laboratory, research or medical settings. It is also an excellent foundation for graduate study in fields such as human medicine, veterinary medicine, dentistry or other doctoral programs.

inventiveness

ORGANIZATION

motivation

FORESIGHT