The biology program at UT Dallas prepares students for careers in science, health and research. The programs emphasize the unifying molecular and cellular nature of living organisms. The undergraduate biology curriculum focuses on biochemical, genetic and cell biology concepts and the tools used to study genes, cells and organisms.

Both BS and BA degrees are offered in biology at UT Dallas; a BS degree is offered in molecular biology. The BS degrees are intended as preparation for scientific careers in biology or in the health professions. The BA degree is a liberal arts biology major with less emphasis on calculus and more free hours for coursework in other disciplines.

**School of Natural Sciences and Mathematics**

**Bachelor of Science in Biology**

Biology students take core courses in genetics, molecular biology, cell biology and biochemistry. BA and BS degrees require 120 hours, with 42 hours of core curriculum and 53–61 hours in the major. Courses can be combined with upper-level electives to create a minor in biomolecular structure, microbiology, molecular and cell biology or neurobiology. The choice can be further expanded to dual majors in biology or molecular biology with business administration or crime and justice studies.

The Department of Biological Sciences promotes an active academic advising program to assist undergraduates in designing an appropriate course of study that will satisfy requirements for graduation, and can be completed in four years in most cases.

**Career Opportunities**

Biology graduates from UT Dallas arrive at graduate school or in the work force prepared to work in the modern biological and biomedical sciences. Computational biology and an array of other contemporary and emerging disciplines are covered throughout the degree programs, which ensure that our graduates are ready to excel in research, healthcare and other professions.

** Marketable Skills**

The BS in Biology degree program extends upon BA in Biology with additional and more rigorous scientific education in Mathematics, Chemistry and Physics. Upon successful completion of the BS in Biology degree program, UT Dallas graduates will receive a basic foundation in molecular and cell biology to prepare them for graduate studies in biological sciences, for professional careers in a wide variety of health-related areas, for secondary school teaching, and for employment as research assistants in pharmaceutical, biotechnology, government, and environmental science laboratories. Graduates’ skills include:

- Broad knowledge base of biology with demonstrated ability to describe and analyze the major concepts and empirical findings in modern biology, with an emphasis on genetics, molecular and cell biology and rigorous quantitative analysis
- Practical knowledge and experience in modern molecular biology research methods with high level ability to define, apply and communicate basic modern molecular biology research methods, including data analysis and interpretation
- Ability to work in teams in diverse settings
- Advanced ability to apply critical thinking and quantitative skills to solve complex problems: critical and creative thinking, skeptical inquiry, and knowledge of molecular biological principles to analyze and solve problems
School of Natural Sciences and Mathematics

UT Dallas’ School of Natural Sciences and Mathematics offers degree programs for undergraduate and graduate students in biology, chemistry, geosciences, mathematics and physics. In addition to regular coursework, undergraduates are encouraged to participate in research alongside the faculty and graduate students. From the world-renowned Alan G. MacDiarmid NanoTech Institute, headed by Dr. Ray Baughman, to the William B. Hanson Center for Space Sciences—where Dr. John Hoffman helped discover water on Mars—the science education at UT Dallas is a hands-on, high quality experience for undergraduates and graduate students alike.

The UTeach Dallas program offers students the opportunity to complete the requirements for high school teacher certification along with their regular BS or BA degrees.

Quick Facts about the School of Natural Sciences and Mathematics

- Established in 1975.
- Six departments.
- More than 3,200 students.
- 29 degrees offered.
- Faculty include a Nobel Prize winner and a member of the National Academy of Engineering.

Degrees Offered

Bachelor of Science: Actuarial science, biochemistry, biology, chemistry, data science, geosciences, mathematics, molecular biology, physics

Bachelor of Arts: Biology, chemistry, mathematics, physics

Master of Science: Actuarial science, bioinformatics and computational biology, biotechnology, chemistry, geosciences, mathematics, molecular and cell biology, physics, statistics

Master of Arts: Teaching in mathematics education, teaching in science education

Doctor of Philosophy: Chemistry, geosciences, mathematics, molecular and cell biology, physics, statistics

Certificates

Postbaccalaureate certificate in biomedical science
Graduate certification in data science

Fast Track to Graduate School

The Fast Track program enables exceptionally gifted UT Dallas students to include master’s level courses in their undergraduate degree plans. Students who meet the requirements for admission to graduate school and the minimum GPA requirement for their major can take up to 15 hours of graduate level coursework that can apply toward their undergraduate and graduate level coursework. To take graduate courses in the Fast Track program upper-division undergraduates must have completed 90 semester credit hours and petition their associate dean for permission to take graduate courses.