

School of Natural Sciences and Mathematics

Bachelor of Science in Molecular Biology



Molecular biology is an interdisciplinary science combining elements of biochemistry, biophysics, genetics and cell biology. Molecular biology, therefore requires a background in other disciplines such as chemistry, mathematics, physics and computer sciences. Principles from these disciplines underpin the new approaches made possible by biotechnology and genetic engineering. Intending molecular biology majors should have a broad interest in the sciences.

Career Potential

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



The University's Career Center is an important resource for students pursuing their careers. Licensed counselors are available to provide strategies for mastering job interviews, writing professional cover letters and resumes and connecting with campus recruiters, among other services.

Molecular Biology at UT Dallas

Molecular biology students take core courses in genetics, molecular biology, cell biology, biochemistry and biophysical chemistry. These 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.

High School Preparation

High school students need an interest in science and an aptitude for biology, chemistry and mathematics. A background in these classes will help ensure success at the undergraduate level.

Contact Information

Office of Admission and Enrollment

800 West Campbell Road
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Dean Bruce M. Novak

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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, 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.

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