

School of Natural Sciences and Mathematics

Master of Science in Molecular and Cell Biology



Curriculum

The Master of Science in Molecular and Cell Biology begins with core courses in biochemistry, molecular biology, cell biology and quantitative biology. Students may have the opportunity to conduct experimental or computational research in a laboratory of their choosing and to write a research dissertation. Research in the department of Biological Sciences is organized into five areas of strength, which are:

- Biochemistry and Biophysics
- Genomics, Systems and Computational Biology
- Microbiology
- Molecular and Cell Biology
- Pathobiology (cancer, neurobiology, infectious disease)

Our faculty members are dedicated to teaching, and classroom experiences are balanced with a substantial research program that serves as the platform for our mentor-based teaching methods.

For those who choose the thesis option, lab work will expose students to state-of-the-art research techniques used to understand the molecular mechanisms of biological processes such as gene expression, protein structure and function, carcinogenesis, neurodegeneration, bacterial pathogenicity and symbiosis, metabolism and signaling networks.

The department is well equipped for research in modern molecular and cell biology. Facilities include next generation sequencing platforms, cell imaging systems, protein and small molecule mass spectrometry and cell sorting.

Career Options

Graduates of the program seek positions such as: research scientist, teacher, research technician and various positions in the health sciences.

Degree Program

The MS in Molecular and Cell Biology requires the completion of a minimum of 36 semester credit hours. For complete admission and degree requirements, view the Graduate Catalog at catalog.utdallas.edu.



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