Doctor of Philosophy in Molecular and Cell Biology

Curriculum
The PhD program in Molecular and Cell Biology begins with core courses in biochemistry, molecular biology, cell biology and quantitative biology. PhD candidates conduct experimental or computational research in a laboratory of their choosing. Research in the department of Biological Sciences is organized into five areas of strength, which are:

- biochemistry
- cell biology
- microbiology
- neurobiology
- systems and computational biology

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

Degree Program
The PhD in Molecular and Cell Biology requires 75 semester credit hours minimum beyond the baccalaureate degree. For complete admission and degree requirements, view the Graduate Catalog at catalog.utdallas.edu.

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