



DREXEL UNIVERSITY
Graduate School of
**Biomedical Sciences
and Professional Studies**
College of Medicine

Biochemistry of Health and Disease, MS or PhD

Our Biochemistry of Health and Disease graduate programs train students to explore the biological mechanisms that control the functions of living organisms. Through intensive research, rigorous coursework and hands-on training, our students receive a cutting-edge education that enables fundamental new knowledge about disease pathogenesis and informs the development of new therapies. Graduates of this program are employed as educators and researchers in academia, at pharmaceutical and biotechnology companies and in governmental agencies.

THE RESEARCH: DIVERSE AND DYNAMIC

Research activities in the Biochemistry of Health and Disease graduate program is supported by a diverse and dynamic group of faculty mentors, representing a multifaceted array of research topics, including:

- Protein and RNA structures and interactions
- Drug design and discovery
- Mechanistic enzymology
- Virus-host interactions
- Molecular machines in biology and disease

THE DEGREES: TO SUIT YOUR CAREER GOALS

MS: This two-year MS program provides a broad foundation in biomedical sciences, and offers a thesis and non-thesis track. Students with a thesis-based MS may apply to the PhD program following graduation, and credits may be eligible for transfer into the advanced program.

PhD: The PhD program includes the same rigorous course work as the MS program, with the addition of more intensive research components. Graduates of the PhD program are thoroughly prepared for a variety of careers, including the opportunity to lead scientific investigations in industrial and/or academic settings.

THE FACULTY: EXPERTS IN THEIR FIELD

Our Biochemistry faculty foster a communal and supportive environment that supports the free exchange of ideas and methodologies. They bring expert knowledge in research areas such as protein structure/function analysis, drug discovery, mechanistic enzymology, cell signaling, virus-host interactions and cancer biology with one common thread: molecular and structural mechanisms.

Our faculty's wealth of knowledge and experience can mentor, support, teach and prepare students for the next steps in their careers, including affiliate faculty at the Fox Chase Cancer Center.

Admissions Requirements

- Completed online application
- All supplementary material submitted by deadline
- Fall Deadlines for PhD in Biochemistry of Health and Disease:
 - International – December 15
 - Domestic – December 15
- Fall Deadlines for Master of Science in Biochemistry of Health and Disease:
 - International – May 15
 - Domestic – July 15
- Bachelor's degree from an accredited college or university
- GRE scores are not required for admission
- Official transcripts from all post-secondary institutions attended
- Essay or personal statement
- Résumé
- Three letters of recommendation
- Application fee: \$75.00

For more information on how to apply to the Biochemistry of Health and Disease (BHAD) program, visit drexel.edu/medicine/academics/graduate-school/biochemistry-of-health-and-disease/how-to-apply

CURRICULUM:

The Biochemistry of Health and Disease curriculum includes an interdisciplinary core curriculum for all first-year students, including courses in Molecular Structure and Metabolism; Cells to Systems; Biostatistics; Responsible Conduct of Research; and the LEAP – Professional Development Series. Throughout the course of the program, each student chooses three different laboratories in which to carry out lab rotations. In the second year, students choose a thesis advisor and complete advanced course work. After the completion of the course work, students focus full-time on their thesis research.

For more detailed information on the curriculum, please visit the program website at drexel.edu/medicine/academics/graduate-school/biochemistry.



CONTACT US!

**Biochemistry of Health and Disease
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