

# PH.D. IN PATHOLOGY

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The Ph.D. in Pathology provides opportunities for graduate training in the fundamentals of modern pathobiology, immunology, and investigative microbiology, with an emphasis on a multi-disciplinary approach to research problems. Students study naturally occurring animal disease and host responses in a variety of species, including cancer, inflammatory, and infectious diseases. In addition, the program involves research in progressive areas such as emerging diseases, comparative oncology, interdisciplinary/systems biology, and translational medicine. This Ph.D. program provides training and preparation to pursue research and/or teaching careers in academia, industry, and government.

The student's graduate committee guides the student in planning a program of study to meet their goals in their area of specialization and is based on their academic background. Goals for Pathology Ph.D. students include successful completion of the preliminary exam; presentation of research at local, national and international meetings, publication of dissertation research in peer-reviewed journals, and successful completion and defense of a dissertation.

[Students interested in graduate work should refer to the Graduate and Professional Bulletin.](#)

## Learning Objectives

1. Design and execute research projects by devising hypotheses specific to the field of pathology.
2. Evaluate, integrate and demonstrate comprehensive knowledge about the molecular and organismal basis of disease.
3. Critique findings from scientific literature to enhance and inform their research proposals.
4. Interpret and justify and defend their research findings through analysis, discussion, and defense.