Microbiology, Ph.D.

Graduate study in microbiology is designed to help students become highly qualified in microbiology research and teaching. Ph.D. students develop expertise in research in a specific area of microbiology and/or immunology. Faculty members have strengths in bacterial genetics and physiology, molecular virology, pathogenic bacteriology and virology, and immunology. Areas of research include bioinformatics, cellular microbiology, molecular virology and immunology, bacterial biochemistry and physiology, bioremediation, bacterial and viral pathogenesis, and molecular parasitology. Working in the laboratory of their Ph.D. advisor, students learn to define and experimentally investigate scientific questions and to conduct original research in preparation for positions in academia, government, and industry.