

Pathology, MS

The MS program in pathology prepares postbaccalaureate science majors for a range of biomedical careers. Graduate-level coursework provides students with a foundation in cellular and molecular biology, as well as specialized knowledge in pathobiology. A laboratory-intensive thesis project equips trainees with cutting-edge research skills. Students typically complete the program in two and one-half years.

Learning Outcomes

Graduates will be able to:

- demonstrate subject matter expertise in basic cell and molecular biology, biostatistics, and pathobiology/mechanisms of human disease;
- understand and apply scientific methods allowing for the appropriate development and testing of hypotheses, problem solving, and utilization of current literature and contemporary laboratory approaches;
- understand and apply the need to conduct research using a team-based approach, including ongoing input from the thesis mentor and committee as well as peers within the laboratory and departmental environment;
- understand and apply the key principles of carrying out research and interpreting results using the highest ethical standards; and
- acquire the ability to effectively communicate research goals, approaches, and results using both written and oral means.