The Department of Pathology offers education and training for a broad range of students, from undergraduates through postgraduate fellows and researchers. It provides basic pathology courses to health sciences students; a clinical training program for medical laboratory scientists; a Master of Science program in pathology; residency training programs leading to American Board of Pathology certification in anatomic pathology and clinical pathology; fellowship training in pathology subspecialties; and postdoctoral research training in cellular and molecular pathology.

Undergraduate Education

Pathology courses are a major component of the University’s program in Medical Laboratory Science, a Bachelor of Science program that trains medical laboratory scientists; see Medical Laboratory Science in the Catalog.

Postgraduate Training

The Department of Pathology offers postgraduate clinical fellowship programs in hematopathology, transfusion medicine, clinical microbiology, cytopathology, molecular genetics pathology, and surgical pathology for physicians who have completed residency training in pathology. These fellowships consist of one to two years of diagnostic work and research.

The department provides postdoctoral research training in immunology, neuropathology, apoptosis, cancer biology, and clinical microbiology as well as in other areas of cellular and molecular pathology. These positions are open to individuals who have earned a Ph.D. or an M.D.

Programs

Graduate Program of Study

Major

• Master of Science in Pathology

M.D. Training

The department provides five to seven 12-month fellowships for M.D. students (pathology externship), for students interested in careers as pathologists, and the Emory Warner Fellowship, a full-time research position in a facet of experimental pathology. It also offers clerkships for M.D. students in all areas of anatomical and clinical pathology.

Residency

The department offers 20 residency positions in pathology, which provide up to four years of training. Patients at the University of Iowa Hospitals and Clinics and the Iowa City VA Health Care System are integral to the residency programs.

Residents gain experience in systematic rotation through the varied laboratory services, including surgical pathology, autopsy pathology, neuropathology, dermatopathology, cytopathology, clinical chemistry, clinical microbiology, hematology, immunopathology, molecular pathology, and transfusion medicine. They also have the opportunity to pursue one or two years of additional fellowship training in many pathology subspecialties. To learn more, see Education on the Department of Pathology website.

Faculty: https://medicine.uiowa.edu/pathology/people
Website: https://medicine.uiowa.edu/pathology/
**PATH:7001 Molecular and Cellular Biology of Cancer** 3 s.h.
Fundamental aspects of oncology at the cellular and molecular levels; mechanisms of cancer initiation and progression, oncogene action, DNA damage and repair, carcinogenesis by radiation, chemicals, viruses; tumor immunology, anticancer therapies. Offered fall semesters. Requirements: strong basic science background. Same as FRRB:7001.

**PATH:7211 Research in Pathology** arr.
Basic aspects of pathology or clinical patient material; emphasis on experimental design, methods, literature review, obtaining formal answers to specific questions. Requirements: M.D. enrollment or graduate standing.

**PATH:8007 Medical Student Fellowships in Pathology (Externships)** 0 s.h.
First-hand experience in autopsy, surgical and clinical pathology, teaching, and research to further understanding of disease mechanisms, normal and pathologic anatomy, laboratory use.

**PATH:8008 Warner Fellowship in Experimental Pathology** 0 s.h.
One-year, full-time membership in established research laboratory in the Department of Pathology or collaborating laboratory. Requirements: M.D. enrollment.

**PATH:8133 Introduction to Human Pathology for Graduate Students** 4 s.h.
Human disease; basic disease processes, organ-related and multisystem diseases; case analysis. Offered fall semesters. Same as PTRS:8133.

**PATH:8301 Laboratory Medicine in Clinical Practice** arr.
Issues in appropriate use of clinical laboratory and pathology resources in the primary care setting; case-based approach. Requirements: third- or fourth-year M.D. enrollment.

**PATH:8401 Autopsy Pathology Clerkship** arr.
**PATH:8402 Hematopathology Clerkship** arr.
**PATH:8403 Surgical Pathology Clerkship** arr.
**PATH:8404 Blood Bank Clerkship** arr.
**PATH:8498 Pathology On Campus** arr.
**PATH:8499 Pathology Off Campus** arr.