

# DEPARTMENT OF PATHOLOGY

Nicole Dominiak, Program Director

## Degrees Offered

MSBS ASSISTANT IN PATHOLOGY (<http://utoledo-public.courseleaf.com/graduate/medicine-life-sciences/departments-divisions/pathology/msbs-assistant-pathology/>)

### PATH 6040 Pathology Assistants: Medical Ethics

[1 credit hour]

This course is an introduction to Medical Ethics for the Pathology Assistant. Focus is on the issues faced by the pathologist and pathology assistants. The course will be seminar based and will involve presentations and case discussions.

**Term Offered:** Spring

### PATH 6050 Clinical Neuropathology

[1 credit hour]

### PATH 6060 Surgical Clinical Rotation

[0-4 credit hours]

Introduces students to surgical pathology and cytology including gross evaluation of tissues, tissue processing and microscopic evaluation of diseased human tissues to render a diagnosis, recommend treatment and evaluate prognosis. In addition, students will attend and/or present case materials at conferences.

**Term Offered:** Spring, Summer, Fall

### PATH 6070 Intro Clinical Lab Medicine

[0-4 credit hours]

An introductory course designed to acquaint students with the laboratory tests that are available in the clinical laboratory, prioritization of test ordering, how the tests are performed and their usefulness in clinical diagnosis and clinical investigation.

**Term Offered:** Spring, Summer, Fall

### PATH 6080 Postmortem Clinical Rotation

[0-4 credit hours]

An introductory course designed to acquaint students with the autopsy. It consists of a series of lectures, demonstrations and readings pertaining to the human autopsy. Students will be involved in the actual performance of autopsies, the selection of appropriate tissues for microscopic examination, microscopic examination of tissues, rendering a diagnosis and completing autopsy reports. The autopsies are performed at MCO and the Lucas County Coroner's Office.

**Term Offered:** Spring, Summer, Fall

### PATH 6720 Current Topics in Pathology

[1-4 credit hours]

A lecture and/or seminar course in topics of current interest in pathology with special emphasis on the fundamentals of mammalian, especially human, life under normal, experimental, or pathological conditions. Students and department faculty will present and moderate the discussion of original research publications. May be repeated for credit.

### PATH 6730 Research in Pathology

[1-4 credit hours]

Students will participate in selected ongoing research programs of the department faculty. May be repeated for credit.

### PATH 6770 Embryology and Teratology

[1 credit hour]

This course provides a post-graduate level understanding of molecular, genetic, cellular and environmental mechanisms involved in: 1. Early human embryonic development i.e. primordial germ cell information, gamete formation, fertilization, blastulation, implantation and gastrulation (formation of bilaminar and trilaminar germ discs) and associated pathological malformations or diseases and 2. Normal and abnormal development of selected tissues, body organs and systems, and their pathological manifestations.

**Term Offered:** Spring

### PATH 6780 Histology and Cell Physiology I

[2 credit hours]

The course is intended to introduce histologic techniques including tissue fixation, processing, staining, microtomy, and the special techniques of histochemistry and immunocytochemistry for light microscopy; in addition basic optics and the use of bright field, phase contrast and fluorescence microscopy will be addressed. The course will integrate microscopic anatomy. The course is intended to integrate microscopic anatomy with tissue specific physiology. The course schedule is designed to meld with the disease content of the organ systems of the medical school curriculum to provide a basis of normal microscopic anatomy (histology) and specific functions of organ specific cell types. There is a strong emphasis on independent study of cell physiology to accompany didactic presentations of microscopic anatomy including utilization of virtual tissue slides.

**Prerequisites:** ANAT 5000 with a minimum grade of D-

### PATH 6790 Histology and Cell Physiology II

[2 credit hours]

The course is intended to integrate microscopic anatomy with tissue specific physiology. The course schedule is designed to meld with the disease content of the organ systems of the medical school curriculum to provide a basis of normal microscopic anatomy (histology) and specific functions of organ specific cell types. There is a strong emphasis on independent study of cell physiology to accompany didactic presentations of microscopic anatomy including utilization of virtual tissue slides.

**Prerequisites:** PATH 6780 with a minimum grade of D-

### PATH 6890 Independent Study in Pathology

[0-12 credit hours]

Intensive study in field of interest, including theoretical and experimental work. May be repeated for credit.

**Term Offered:** Spring, Summer, Fall

### PATH 7050 Clinical Neuropathology

[1 credit hour]

### PATH 7130 Pathology Case Studies

[1-6 credit hours]

Present, discuss and provide clinical pathologic correlation on various disease process. Interpret lab tests related to various diseases. Utilize laboratory testing to diagnose and manage various disease. Interact professionally with peers in the discussion of the cases.

**Term Offered:** Spring, Summer, Fall

### PATH 8050 Clinical Neuropathology

[1 credit hour]

**PATH 8060 Intro Surgical Path and Cytolo**

[1-4 credit hours]

Introduces students to surgical pathology and cytology including gross evaluation of tissues, tissue processing and microscopic evaluation of diseased human tissues to render a diagnosis, recommend treatment and evaluate prognosis. In addition, students will attend and/or present case materials at conferences.

**PATH 8070 Intro Clinical Lab Medicine**

[1-4 credit hours]

An introductory course designed to acquaint students with the laboratory tests that are available in the clinical laboratory, prioritization of test ordering, how the tests are performed and their usefulness in clinical diagnosis and clinical investigation.

**PATH 8080 Intro Postmortem Pathology**

[1-4 credit hours]

An introductory course designed to acquaint students with the autopsy. It consists of a series of lectures, demonstrations and readings pertaining to the human autopsy. Students will be involved in the actual performance of autopsies, the selection of appropriate tissues for microscopic examination, microscopic examination of tissues, rendering a diagnosis and completing autopsy reports. The autopsies are performed at MCO and the Lucas County Coroner's Office.

**PATH 8720 Current Topics in Pathology**

[1-4 credit hours]

A lecture and/or seminar course in topics of current interest in pathology with special emphasis on the fundamentals of mammalian, especially human, life under normal, experimental, or pathological conditions. Students and department faculty will present and moderate the discussion of original research publications. May be repeated for credit.

**PATH 8730 Research in Pathology**

[1-4 credit hours]

Students will participate in selected ongoing research programs of the department faculty. May be repeated for credit.

**PATH 8890 Independent Study in Pathology**

[1-12 credit hours]

Intensive study in field of interest, including theoretical and experimental work. May be repeated for credit.