PATH/PATH-BIO 210 — HIV: SEX, SOCIETY AND SCIENCE
3 credits.

HIV kills three million people per year, more than any other infectious disease. We will learn about the transmission, immunology, virology, vaccinology and societal impact of this virus. Six of the world’s leading HIV scientists will give guest lectures. Enroll Info: None
Requisites: None
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2018

PATH 399 — INDEPENDENT STUDY
1-4 credits.

Directed study projects for freshmen and sophomores. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2018

PATH 404 — PATHOPHYSIOLOGIC PRINCIPLES OF HUMAN DISEASES
3 credits.

Primarily for students of pharmacy and nursing to provide a basic understanding of the causes, pathophysiology, pathology and clinical manifestations of disease states. Required course for pharmacy and nursing programs. Enroll Info: None
Requisites: ANAT&PHY 335 or 435 (or PHYSIOL 335 or 435 prior to Fall 2018)
Repeatable for Credit: No
Last Taught: Spring 2018

PATH 699 — INDEPENDENT STUDY
1-4 credits.

Directed study projects for juniors and seniors. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2018

PATH 750 — CELLULAR AND MOLECULAR BIOLOGY/PATHOLOGY
2-3 credits.

The emphasis is on our current understanding of molecular and cellular mechanisms. Wherever possible, human diseases are used to illustrate the outcome at the organismal level of defects in these mechanisms. Lectures will draw from the current research literature and cover topics such as cell and tissue organization, intracellular sorting, cell migration and growth. Students in Cellular and Molecular Pathology graduate program must enroll for lectures, 2 credits and discussion section, 1 credit. All other students should enroll for lecture only, 2 credits. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2018

PATH 751 — CELL AND MOLECULAR BIOLOGY OF AGING
3 credits.

Cellular and molecular pathophysiology of human disease typically afflicting the aged, such as Alzheimer’s, osteoporosis, Type II diabetes and arthritis, experimental systems to study aging. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2018

PATH 802 — HISTOPATHOLOGY FOR TRANSLATIONAL SCIENTISTS
3 credits.

This course is unique among the graduate curricula, introducing students to the pathogenesis of disease via integration of actual autopsy patient cases. Emphasis is placed on understanding the basic mechanisms of disease at the level of cell, organ, and body, as well as the morphologic expression patterns of selected common specific disease processes. In addition to attending twice-weekly lectures, students will participate in weekly autopsy gross organ conferences as well as microscopic review sessions. In this way, the concepts covered in lectures will be applied and reinforced in the interactive autopsy sessions. Students will also observe at least one full autopsy, gaining a three-dimensional understanding of structure and disease. The grade for this course is derived from a final multiple-choice exam and a short essay regarding an autopsy case. At the conclusion of this course, students should: gain an appreciation of how disease processes directly impact patients; be able to distinguish the morphologic patterns of normal versus pathologic tissues; be familiar with the pathogenesis of selected common disease processes; and recognize how basic laboratory research may be applied to specific disease processes. Enroll Info: None
Requisites: Declared in Cellular and Molecular Pathology graduate program
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2018
PATH 803 — PATHOGENESIS OF MAJOR HUMAN DISEASES
3 credits.

This course will focus on disease pathogenesis and discussion of the leading disease research model. Throughout the course, we will combine expert clinicians, basic scientists, and literature review on specific major diseases. Enroll Info: None

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No

Last Taught: Fall 2018

PATH 807 — IMMUNOPATHOLOGY: THE IMMUNE SYSTEM IN HEALTH AND DISEASE
2 credits.

Gain fundamental knowledge of immunopathology and molecular immunology medicine, and have an in-depth research experience that combines pathobiological and translational immunology research. Enroll Info: None

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No

Last Taught: Spring 2018

PATH 809 — MOLECULAR MECHANISMS OF DISEASE
2 credits.

Focuses on molecular mechanisms of diseases. Course will focus on four modules: Neuroscience, cancer biology, growth factor/matrix biology, and immunology. Course will consist of a one hour lecture and a one hour group discussion. Enroll Info: None

Requisites: Declared in Cellular and Molecular Pathology graduate program
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No

Last Taught: Spring 2018

PATH 900 — SEMINAR
0 credits.

Weekly Seminar for graduate students, professional students, medical professionals. Enroll Info: None

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Fall 2018

PATH 901 — STUDENT SEMINAR / JOURNAL CLUB
1 credit.

Review of current publications on relevant topics selected by department faculty and trainer. Enroll Info: None

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Fall 2018

PATH 920 — GENERAL PATHOLOGY CLERKSHIP-CSC
2-12 credits.

Clinical elective for third or fourth year medical students Enroll Info: None

Requisites: MED SC-M 810, 811, 812, and 813
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Fall 2018

PATH 925 — LABORATORY MEDICINE: CLINICAL TOXICOLOGY ELECTIVE-CSC
2-12 credits.

Toxicology is a subspecialty within clinical chemistry involving the testing of blood, urine, or other samples for the presence of toxic compounds, drugs, or drug metabolites with clinical relevance in addiction medicine, emergency medicine, infectious disease, and transplantation. Enroll Info: None

Requisites: Declared in Medicine program
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2012

PATH 926 — PATHOLOGY: CLINICAL MICROBIOLOGY-MARSHFIELD
2-12 credits.

Clinical elective for fourth year medical students. Enroll Info: None

Requisites: Declared in Medicine program
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2018

PATH 949 — GENETICS THROUGH THE LIFE CYCLE
4 credits.

The genome impacts human health and disease from the moment of conception throughout growth, development, and aging. This course offers a comprehensive overview of clinical laboratory testing in the fields of medical genetics and public health. Topics include how genetic testing is integrated into patient care, including prenatal genetics, newborn screening, genetic testing in children and adults, and oncology genetics. Students will develop a strong foundational knowledge of basic genetics principles, identify indications for genetic testing, interpret population screening results and the implications for public health, assess the utility of diagnostic testing, and recognize the limitations of genetic testing and clinical laboratory medicine. It is anticipated that students will incorporate these concepts, knowledge, experiences, and evidence in their future clinical practice. Enroll Info: None

Requisites: Declared in Medicine program
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
PATH 990 — RESEARCH
1-8 credits.

For Grad and medical students desiring advanced pathology; work done under the direction of a senior staff member. Enroll Info: None

Requisites: Declared in Medicine program or Cellular and Molecular Pathology graduate program

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Fall 2018