Courses

PATH 421. General Pathology - Dental. 3 hours.
Basic principles of pathological processes. Course Information:
Prerequisite(s): ANAT 440 and PATH 407 and PHYB 401; or consent
of instructor. Class Schedule Information: To be properly registered,
students must enroll in one Laboratory and one Lecture.

PATH 422. Systemic Pathology - Dentistry. 3 hours.
Disease process affecting specific organs. Course Information:
Prerequisite(s): PATH 421. Class Schedule Information: To be properly
registered, students must enroll in one Laboratory and one Lecture.

PATH 507. Physiological Basis of Pathology. 2 hours.
Subject matter allied to general pathology but going deeper into physical
chemistry and physiological principles, as set forth in N.R. Joseph’s
“Comparative Physical Biology.” Course Information: Same as HSTL 507.
Prerequisite(s): HSTL 401; or PATH 421 and PATH 422.

PATH 510. General Pathology. 3 hours.
Introduction to the science of disease for graduate students in areas
of biomedical research with a focus on the mechanisms of basic
pathological processes at the molecular, cellular, tissue, and whole
organism levels. Course Information: Prerequisite(s): Consent of the
instructor. Recommended background: Basic molecular and cell biology
is highly recommended.

PATH 511. Pathobiology of Cancer. 3 hours.
Introduction to principles of carcinogenesis, tumor biology, and oncology,
including cancer epidemiology, molecular-cellular basis of cancer,
tumor progression, invasion and metastasis, and prevention, detection,
diagnosis, and therapy of cancer. Course Information: Same as
GEMS 512. Prerequisite(s): Consent of the instructor. Recommended
background: Some biology or medical background is recommended for
epidemiology students taking this course.

PATH 512. Molecular Epidemiology and Biomarkers of Disease. 3
hours.
Major theoretical concepts and practical issues involved in research
involving molecular biomarkers in human populations, emphasizing
examples from the cancer research literature. Course Information: Same
as EPID 512. Prerequisite(s): Consent of the instructor. Recommended
background: Basic knowledge of molecular and cell biology is highly
recommended.

PATH 513. Special Topics in Pathology. 1-4 hours.
Topics of current interest in the fields of experimental pathology, cancer
biology, molecular epidemiology, experimental design and analysis,
biomarker research, and cancer prevention. Course Information: May be
repeated. Prerequisite(s): Approval of the department.

PATH 595. Pathology Seminar and Journal Club. 2 hours.
Weekly seminar and journal club covering selected fields of interest and
research in pathology. Course Information: Satisfactory/Unsatisfactory
grading only. Class Schedule Information: To be properly registered,
students must enroll in one Conference and one Lecture-Discussion.

PATH 598. Master’s Thesis Research. 0-16 hours.
Research in experimental pathology towards a Ph.D. degree. Course
Information: Satisfactory/Unsatisfactory grading only. May be repeated.
Students may register in more than one section per term.