Pathology and Laboratory Medicine (PATH)

Courses

PATH 200A. Research in Experimental Pathology. 2-12 Units.
Independent research for the Ph.D. program within the laboratories of graduate training faculty in Experimental Pathology.

Corequisite: PATH 203A
Repeatability: Unlimited as topics vary.

PATH 200B. Research in Experimental Pathology. 2-12 Units.
Independent research for the Ph.D. program within the laboratories of graduate training faculty in Experimental Pathology.

Corequisite: PATH 203B
Repeatability: Unlimited as topics vary.

PATH 200C. Research in Experimental Pathology. 2-12 Units.
Independent research for the Ph.D. program within the laboratories of graduate training faculty in Experimental Pathology.

Corequisite: PATH 203C
Repeatability: Unlimited as topics vary.

PATH 200R. Research in Experimental Pathology for First-Year Students. 2-12 Units.
Independent research within the laboratories of graduate training faculty in Experimental Pathology for first-year Ph.D. students.

Grading Option: Satisfactory/unsatisfactory only.
Repeatability: May be taken for credit 3 times.

PATH 203A. Advanced Studies in Experimental Pathology. 1 Unit.
A tutorial course for Ph.D. students in Experimental Pathology entailing attendance at Departmental seminars and critical reading of the scientific literature.

Corequisite: PATH 200A
Repeatability: May be repeated for credit unlimited times.

PATH 203B. Advanced Studies in Experimental Pathology. 1 Unit.
A tutorial course for Ph.D. students in Experimental Pathology entailing attendance at Departmental seminars and critical reading of the scientific literature.

Corequisite: PATH 200B
Repeatability: May be repeated for credit unlimited times.

PATH 203C. Advanced Studies in Experimental Pathology. 1 Unit.
A tutorial course for Ph.D. students in Experimental Pathology entailing attendance at Departmental seminars and critical reading of the scientific literature.

Corequisite: PATH 200C
Repeatability: May be repeated for credit unlimited times.

PATH 204A. Experimental Pathology Research Seminar. 1 Unit.
Seminar series for graduate students in Experimental Pathology. Students attend seminars and, beginning in their third year of graduate study, present one formal seminar on their graduate research.

Grading Option: Satisfactory/unsatisfactory only.
Repeatability: May be repeated for credit unlimited times.
PATH 204B. Experimental Pathology Research Seminar. 1 Unit.
Seminar series for graduate students in Experimental Pathology. Students attend seminars and, beginning in their third year of graduate study, present one formal seminar on their graduate research.

Grading Option: Satisfactory/unsatisfactory only.

Repeatability: May be repeated for credit unlimited times.

PATH 204C. Experimental Pathology Research Seminar. 1 Unit.
Seminar series for graduate students in Experimental Pathology. Students attend seminars and, beginning in their third year of graduate study, present one formal seminar on their graduate research.

Grading Option: Satisfactory/unsatisfactory only.

Repeatability: May be repeated for credit unlimited times.

PATH 221. Immunopathogenic Mechanisms of Disease. 3 Units.
Examination of the mechanisms underlying disease states mediated by immune dysregulation. Topics include mechanisms of immune evasion by cancer, diseases mediated by cytokine dysregulation, role of the microbiome of the GI tract and other disease sites, and adoptive T-cell therapy.

Prerequisite: M&MG 215

Same as M&MG 221.

Restriction: Graduate students only.

PATH 225. Molecular Mechanisms of Human Disease. 3 Units.
Provides an overview of the molecular mechanisms of human diseases, including neurologic, hematologic, neoplastic, and infectious diseases. Students gain an understanding of these mechanisms, as well as models of human diseases.

Same as M&MG 225.

PATH 226. Topics in Experimental Pathology. 4 Units.
Select topics related to principles of experimental pathology including normal host responses to disease are presented. Animal models of human disease are emphasized. Material includes both lectures and critical review of the primary literature.

PATH 227. Experimental Pathology Journal Club. 1 Unit.
Graduate-level course, which is open to all years, will involve the reading and discussion of papers, preferably written by the invited seminar speaker. Discussions will cover advanced topics in experimental pathology as related to an understanding of human disease.

Corequisite: PATH 204A and PATH 204B and PATH 204C

Grading Option: Satisfactory/unsatisfactory only.

Repeatability: May be repeated for credit unlimited times.

PATH 230D. Principles of Experimental Pathology. 4 Units.
Introduces graduate students to the general pathologic processes that mediate disease. Topics include cell injury and repair, inflammation, immunopathology, neoplasia, and genetic diseases. Combines lecture, small group discussion, and oral presentations.

Overlaps with PATH 508A, PATH 508B.

PATH 231A. Pathology of Cardiovascular Diseases. 2 Units.
For graduate students interested in human cardiovascular disease. Students receive training in physiology, anatomy, and pathologic processes of the heart and blood vessels. Experimental approaches to study such processes are emphasized.

Overlaps with PATH 508A, PATH 508B.

PATH 232A. Pathology of Pulmonary Diseases. 1.5 Unit.
For graduate students interested in pulmonary disease. Students receive training in physiology, anatomy, and pathologic processes of the lungs and airways. Experimental approaches to study such processes are emphasized.

Overlaps with PATH 508A, PATH 508B.
PATH 233A. Pathology of Renal Diseases. 1 Unit.
For graduate students interested in renal disease. Students receive training in physiology, anatomy, and pathologic processes of the kidneys. Experimental approaches to study such processes are emphasized.

Overlaps with PATH 508A, PATH 508B.

PATH 234A. Pathology of Gastrointestinal Diseases.
For graduate students interested in gastrointestinal disease. Students receive training in physiology, anatomy, and pathologic processes of the gastrointestinal tract. Experimental approaches to study such processes are emphasized.

Grading Option: In progress only.

Overlaps with PATH 508A, PATH 508B.

PATH 234B. Pathology of Gastrointestinal Diseases. 2 Units.
For graduate students interested in gastrointestinal disease. Students receive training in physiology, anatomy, and pathologic processes of the gastrointestinal tract. Experimental approaches to study such processes are emphasized.

Prerequisite: PATH 234A

Overlaps with PATH 508A, PATH 508B.

PATH 235A. Pathology of Genitourinary Tract Disease.
For graduate students interested in genitourinary tract or breast disease. Students receive training in physiology, anatomy, and pathologic processes of the breast and genitourinary tract. Experimental approaches to study such processes are emphasized.

Grading Option: In progress only.

Overlaps with PATH 508A, PATH 508B.

PATH 235B. Pathology of Genitourinary Tract Disease. 2 Units.
For graduate students interested in genitourinary tract or breast disease. Students receive training in physiology, anatomy, and pathologic processes of the breast and genitourinary tract. Experimental approaches to study such processes are emphasized.

Prerequisite: PATH 235A

Overlaps with PATH 508A, PATH 508B.

PATH 236B. Graduate Neuropathology. 1 Unit.
For graduate students interested in diseases of the nervous system. Students receive training in physiology, anatomy, and pathologic processes of the central and peripheral nervous system. Experimental approaches to study such processes are emphasized.

Overlaps with PATH 508A, PATH 508B.

PATH 292A. Scientific Communication. 2 Units.
Small group meetings for graduate students to practice scientific writing, debate, and presentation skills.

Grading Option: Satisfactory/unsatisfactory only.

Repeatability: May be repeated for credit unlimited times.

PATH 292B. Scientific Communication. 2 Units.
Small group meetings for graduate students to practice scientific writing, debate, and presentation skills.

Grading Option: Satisfactory/unsatisfactory only.

Repeatability: May be repeated for credit unlimited times.

PATH 292C. Scientific Communication. 2 Units.
Small group meetings for graduate students to practice scientific writing, debate, and presentation skills.

Grading Option: Satisfactory/unsatisfactory only.

Repeatability: May be repeated for credit unlimited times.
PATH 299. Dissertation in Experimental Pathology. 1-12 Units.
Provided for the preparation and completion of the dissertation required for the Ph.D. degree.

Repeatability: May be repeated for credit unlimited times.