

# TOXICOLOGIC PATHOLOGY

## 16:963:631

**Course Directors:** Dr. Ken Reuhl  
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Office hours as needed

**Course Description:** Toxicologic Pathology is a 3-credit course designed to introduce the basic principles, procedures and techniques for the histopathologic assessment of tissues. The emphasis will be placed on understanding the pathophysiology and histological appearance of disease in both experimental animals and humans. Upon successful completion of this course, we expect you to be able to necropsy animals, prepare tissues for light microscopic study, critically evaluate these slides and identify tissue changes resulting from natural and toxicant-induced disease. The goal of this course is to give you practical skills in pathology. To this end, a necropsy exercise is scheduled. Each student will receive an animal treated with an unknown toxicant. You will be responsible for performing a full assessment of the animal, including behavior, necropsy and gross examination, preparation of samples for light microscopy including sectioning and staining, interpretation of the slides and preparation of the necropsy report. You will then 'read-out' the slides at the microscope with Dr. Reuhl. An optional human autopsy opportunity is included at the medical examiner's office.

### LECTURE SCHEDULE

Topics	Instructors
Cell Injury and Death	K. Reuhl
Inflammation and Repair	C. Gardner
Neoplasia	K. Reuhl
Hematopoietic Pathology	M. Goedken
Clinical Chemistry	M. Goedken
Hepatobiliary Pathology	K. Reuhl
Renal Pathology	K. Reuhl
Endocrine and Reproductive Pathology	M. Gallo
Respiratory Pathology	K. Cooper
Gastrointestinal Pathology	K. Reuhl
Dermal Pathology	K. Reuhl
Neuropathology	K. Reuhl
Aquatic Pathology	K. Cooper
Comparative Pathology	K. Cooper