

PATHOLOGY (PMD)

School of Medicine

PMD 192 – Internship in Human Pathology (1-12 units)

Course Description: Supervised work experience in pathology and related fields.

Prerequisite(s): Upper division standing; approval of project prior to period of internship by preceptor.

Learning Activities: Internship 3-36 hour(s).

Grade Mode: Pass/No Pass only.

PMD 199 – Special Study in Pathology for Advanced Undergraduates (1-5 units)

Course Description: Special study in Pathology for advanced undergraduates.

Prerequisite(s): Consent of instructor; advanced undergraduates.

Learning Activities: Variable.

Grade Mode: Pass/No Pass only.

PMD 290C – Research Group Conferences (1 unit)

Course Description: Focused around the mechanisms of function of the central nervous system under normal and pathogenic conditions. Seminars lead by various speakers from UC Davis and other Institutions, both domestic and international.

Prerequisite(s): Graduate level standing.

Learning Activities: Seminar 1 hour(s).

Repeat Credit: May be repeated.

Grade Mode: Satisfactory/Unsatisfactory only.

PMD 296 – Neurodevelopment Group Study (1-6 units)

Course Description: Explore mechanisms that impact perinatal development of the cerebral cortex, and other cortical structures, under normal and pathological conditions.

Learning Activities: Variable 1-6 hour(s).

Grade Mode: Satisfactory/Unsatisfactory only.

PMD 298 – Advanced Group Study (1-5 units)

Course Description: Group Study provides the opportunity for a faculty member to work with students in a focused manner.

Prerequisite(s): Consent of instructor.

Learning Activities: Variable 1-5 hour(s).

Grade Mode: Satisfactory/Unsatisfactory only.

PMD 299 – Research (1-12 units)

Course Description: Research.

Prerequisite(s): Consent of instructor.

Learning Activities: Variable.

Grade Mode: Satisfactory/Unsatisfactory only.

PMD 405 – Brain Cutting Conference (1-4 units)

Course Description: Current specimens are sectioned, discussed, and clinical correlations proposed.

Prerequisite(s): Third- and fourth-year medical students or consent of instructor.

Learning Activities: Seminar 1-4 hour(s).

Grade Mode: Honors/Pass/Fail.

PMD 407 – Advanced Neuropathology (3-18 units)

Course Description: Presents an integrated introduction to mechanisms of the central and peripheral nervous system injury. Gain an understanding of pathological mechanisms underlying disease, the anatomic and molecular manifestations of pathologic processes of the CNS and PNS.

Prerequisite(s): Consent of instructor; third- or fourth-year medical student.

Learning Activities: Lecture/Discussion 40 hour(s).

Enrollment Restriction(s): Restricted to Medical students only.

Grade Mode: Honors/Pass/Fail.

PMD 410A – General & Endocrine Pathology (2.5 units)

Course Description: Pathologic mechanisms of human disease. Concepts of general pathologic processes, i.e., cell death, inflammation and neoplasia. Endocrine pathology in the context of clinical human disease. Emphasis on integration of clinical practice with gross and histologic images emphasizing team-based learning.

Learning Activities: Lecture 4 hour(s), Discussion/Laboratory 4.50 hour(s).

Enrollment Restriction(s): Restricted to medical students only.

Grade Mode: Pass/Fail only.

PMD 410B – Systemic Pathology (1 unit)

Course Description: Anatomic and clinical pathology of organ system human disease with an emphasis on integration with clinical medicine. Topics include hematopathology and neuropathology.

Prerequisite(s): Approval by SOM Committee on Student progress.

Learning Activities: Lecture 1 hour(s), Discussion/Laboratory 0.50 hour(s).

Enrollment Restriction(s): Restricted to Medical students only.

Grade Mode: Pass/Fail only.

PMD 410C – Systemic Pathology (2 units)

Course Description: Anatomic and clinical pathology of organ system human disease with an emphasis on integration with clinical medicine. Topics include pulmonary pathology, cardiovascular pathology, hematopathology, oncologic pathology, and nephropathology.

Prerequisite(s): Approval by SOM Committee on Student progress.

Learning Activities: Lecture 1 hour(s), Discussion 2 hour(s).

Enrollment Restriction(s): Restricted to Medical students only.

Grade Mode: Pass/Fail only.

PMD 410D – Systemic Pathology (2.5 units)

Course Description: Anatomic and clinical pathology of organ system human disease with emphasis on integration with clinical medicine. Content parallels concurrent clinical courses with integration of lectures and discussions. Topics include gastrointestinal and gynecologic pathology, hepatopathology, oncologic pathology and musculoskeletal pathology.

Prerequisite(s): Approval by SOM Committee on Student progress.

Learning Activities: Lecture 1 hour(s), Discussion 2 hour(s).

Enrollment Restriction(s): Restricted to Medical students only.

Grade Mode: Pass/Fail only.

PMD 435 – Clinical Patient Care in Pathology (3-9 units)

Course Description: Four-week course is designed to give the third-year medical student an exposure to the diverse roles that pathologists have in clinical patient care.

Prerequisite(s): Consent of instructor; completed one of the following 3rd year clerkships: Family Medicine, Internal Medicine, Surgery, OB/GYN or Pediatrics.

Learning Activities: Clinical Activity 24 hour(s), Independent Study 7 hour(s), Lecture/Discussion 4 hour(s).

Repeat Credit: May be repeated.

Grade Mode: Honors/Pass/Fail.

PMD 440 – Surgery-Pathology-Radiology (SPR) Research Laboratory (2 units)

Course Description: Provide future clinicians and scientists with basic clinical and bioengineering laboratory skills to prepare for careers in translational research.

Prerequisite(s): Consent of instructor.

Learning Activities: Lecture/Discussion 1 hour(s), Discussion/Laboratory 2 hour(s).

Grade Mode: Pass/Fail only.

PMD 460 – Diagnostic Medicine: Pathology in Practice (3 units)

Course Description: Asynchronous learning course bridges the gap between foundational pathophysiology learned in pre-clerkship curriculum and the utilization of pathology and laboratory medicine studies in clinical practice.

Learning Activities: Lecture.

Grade Mode: Pass/Fail only.

PMD 464 – Anatomic Pathology (3-6 units)

Course Description: Anatomic pathology with an emphasis on autopsy and surgical pathology with application to clinical practice. Specimen grossing, frozen sections, microscopic sign-out and conferences. Exposure to cytopathology, hematopathology, and clinical pathology is available.

Prerequisite(s): Consent of instructor; fourth-year medical students.

Learning Activities: Clinical Activity 40 hour(s), Variable.

Enrollment Restriction(s): Restricted to Medical Students only.

Grade Mode: Honors/Pass/Fail.

PMD 465 – Applied Clinical Laboratory Medicine (3-6 units)

Course Description: Emphasis upon laboratory techniques, procedures, and interpretation of laboratory results. Students will be expected to participate fully and in all laboratory operations including bench techniques, laboratory management, and quality control.

Prerequisite(s): Consent of instructor.

Learning Activities: Variable 40 hour(s).

Repeat Credit: May be repeated.

Grade Mode: Honors/Pass/Fail.

PMD 466 – The Other Medical Literature: Finding Humanity & Balance through Reading (6 units)

This version has ended; see updated course, below.

Course Description: Course will examine literary works (novels, memoirs, and short stories) that deal with illness, medicine, and physician wellness.

Learning Activities: Discussion 40 hour(s).

Grade Mode: Pass/Fail only.

PMD 466 – The Other Medical Literature: Finding Humanity & Balance through Reading (6 units)

Course Description: Examine literary works (novels, memoirs, and short stories) that deal with illness, medicine, and physician wellness.

Learning Activities: Discussion 40 hour(s).

Grade Mode: Pass/Fail only.

This course version is effective from, and including: Spring Semester 2026.

PMD 470 – Sub-Specialty in Didactic Pathology (3-16 units)

Course Description: Externship provides in-depth exposure to one of a variety of sub-specialties in Pathology.

Prerequisite(s): Consent of instructor.

Learning Activities: Lecture/Lab 25 hour(s).

Repeat Credit: May be repeated.

Grade Mode: Honors/Pass/Fail.

PMD 474 – Anatomic Pathology Acting Internship (3-9 units)

Course Description: Anatomic Pathology AI will permit students to gain skills needed for first year Pathology Residency. Students will perform autopsies and take full responsibility for a variety of surgical pathology cases. A mix of outpatient and inpatient cases is expected.

Prerequisite(s): Fourth-year medical student or consent of instructor.

Learning Activities: Clinical Activity 40-80 hour(s).

Enrollment Restriction(s): Restricted to medical students only.

Repeat Credit: May be repeated.

Grade Mode: Honors/Pass/Fail.

PMD 475 – Anatomic Pathology Acting Internship (3-9 units)

Course Description: Year four level course designed to provide a concentrated experience in Surgical Pathology and Cytopathology. Rotate on the surgical and cytopathology sub-specialty teams and assume responsibility for patient cases.

Prerequisite(s): PMD 410A; PMD 410B; PMD 410C; PMD 410D; or equivalent, and consent of instructor. Successful completion of third-year clinical rotations.

Learning Activities: Clinical Activity 40-80 hour(s).

Enrollment Restriction(s): Restricted to Medical Students only.

Repeat Credit: May be repeated.

Grade Mode: Honors/Pass/Fail.

PMD 493 – Interdisciplinary Study of Gastrointestinal Cancer (6 units)

Course Description: In-depth study of gastrointestinal, hepatic and pancreatic cancer. Emphasis on an integration of basic science and clinical medicine. Participating departments include pathology, surgical oncology, medical oncology, gastroenterology, radiology and radiotherapy.

Prerequisite(s): Consent of instructor.

Learning Activities: Lecture 5 hour(s), Clinical Activity 12 hour(s), Laboratory 3 hour(s), Discussion/Laboratory 20 hour(s).

Cross Listing: SUR 493D.

Grade Mode: Honors/Pass/Fail.

PMD 497T – Tutoring in Pathology (1-5 units)

Course Description: Assist instructor by tutoring medical students in preparation for one of the departmental courses that is a component of the required curriculum of the School of Medicine.

Prerequisite(s): Advanced standing or consent of instructor.

Learning Activities: Tutorial 3-15 hour(s).

Grade Mode: Honors/Pass/Fail.

PMD 498 – Advanced Group Study (1-5 units)

Course Description: Group study in variety of advanced topics in general, special, experimental, or comparative pathology.

Prerequisite(s): Consent of instructor; medical student.

Learning Activities: Variable.

Grade Mode: Honors/Pass/Fail.

PMD 499 – Research (1-18 units)

Course Description: Research in experimental, molecular, comparative, and applied pathology.

Prerequisite(s): Medical student with consent of instructor.

Learning Activities: Variable.

Enrollment Restriction(s): Limited enrollment.

Repeat Credit: May be repeated.

Grade Mode: Honors/Pass/Fail.