

NEUROLOGY (NEU)

School of Medicine

NEU 103 – Human Clinical Neuroanatomy (4 units)

Course Description: Clinically relevant anatomy of the normal human nervous system, including external and internal anatomy of the brain, spinal cord, and cranial nerves. Blood supply to the brain and spinal cord. Functional neuroanatomy of motor, sensory, and cognitive systems. Application of neuroanatomical principles relevant to clinical problem solving for students entering health care professions.

Prerequisite(s): CHA 101; or consent of instructor.

Learning Activities: Lecture 3 hour(s), Laboratory 3 hour(s).

Enrollment Restriction(s): Open to upper division students.

Cross Listing: CHA 103.

Grade Mode: Letter.

General Education: Science & Engineering (SE).

NEU 199 – Individual Special Study & Research (1-4 units)

Course Description: Individual special study in neurophysiology and biomedical engineering is offered to qualified students. Studies on psychophysics, single-unit electrophysiology and instrumentation are offered in Davis.

Prerequisite(s): Consent of instructor.

Learning Activities: Variable.

Grade Mode: Pass/No Pass only.

NEU 298 – Group Study (1-5 units)

Course Description: For graduate students desiring to explore particular topics in depth. Lectures and conferences may be involved.

Prerequisite(s): Consent of instructor.

Learning Activities: Variable.

Grade Mode: Satisfactory/Unsatisfactory only.

NEU 299 – Individual Special Study & Research (1-12 units)

Course Description: Individual special study and research in Neurophysiology and Biomedical engineering is offered at both Davis and Sacramento Medical Center.

Prerequisite(s): Consent of instructor.

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

Grade Mode: Satisfactory/Unsatisfactory only.

NEU 420 – Clinical Neurosciences (2 units)

Course Description: Pathophysiology underlying neurological disorders, including disorders of development, muscle, nerve, cerebral circulation, metabolism, myelin, cortical function, movement, cerebrospinal fluid, autonomic function and special senses. Anatomical basis of clinical testing, nervous system infection, neoplasia and trauma.

Learning Activities: Lecture/Discussion 1 hour(s), Lecture 1.50 hour(s).

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

Grade Mode: Pass/Fail only.

NEU 440 – Where Drugs Come From: How They are Discovered, Developed, Regulated, & Marketed (3-6 units)

Course Description: Includes the following topics: Overview of the Drug Discovery Process; Drug Regulation in the United States; Patents and Other Forms of Exclusivity; Drug Targets and Pharmacology; Identification of Lead Candidates; Preclinical Assessment; ADME Including Basic Pharmacokinetic Principles; Principles of Drug Toxicity; Principles of Drug Safety; Clinical Trials; Generic Drugs; Pharmaceutical Industry; Drug Distribution and Marketing; Dietary Supplements; Controlled Substances.

Learning Activities: Lecture.

Grade Mode: Honors/Pass/Fail.

NEU 450 – Clinical Neurology Clerkship (3-6 units)

Course Description: Critical elements of neurological clinical skills (history & exam) and basic and clinical neurological concepts expected for general residency preparation. Active, didactic, experiential and independent learning to encourage maturation of general professional competencies.

Prerequisite(s): Open to all fourth-year medical students; third-year medical students with consent of instructor.

Learning Activities: Clinical Activity 24 hour(s), Conference 12 hour(s), Seminar 4 hour(s), Independent Study 10 hour(s).

Enrollment Restriction(s): Restricted to six students per rotation.

Repeat Credit: May be repeated.

Grade Mode: Honors/Pass/Fail.

NEU 452 – Advanced Clinical Neurology (6 units)

Course Description: Teaches the principles and skills necessary to recognize and manage the neurologic diseases a general medical practitioner is most likely to encounter in practice. Gain clinical experience in both inpatient and outpatient settings, and learn how to interview patients and their caregivers to obtain a complete and reliable neurologic history and perform a reliable neurologic examination.

Prerequisite(s): Consent of instructor; completion of four-week Neurology selective.

Learning Activities: Clinical Activity.

Grade Mode: Honors/Pass/Fail.

NEU 455 – Child Neurology (1-12 units)

Course Description: Exposure to children with disorders of the nervous system, both in outpatient and inpatient services. Cases presented to a member of full-time faculty who will discuss clinical findings, differential diagnosis, management and therapy. Satisfies fourth-year neuroscience requirement.

Prerequisite(s): IMD 430; OBG 430; PED 430; consent of instructor.

Learning Activities: Clinical Activity.

Grade Mode: Honors/Pass/Fail.

NEU 460 – Externship in Neurology (3-6 units)

Course Description: Externship course for Neurology rotations not meeting the qualifications to be an Acting Internship.

Prerequisite(s): Consent of instructor.

Learning Activities: Clinical Activity.

Repeat Credit: May be repeated.

Grade Mode: Honors/Pass/Fail.

NEU 462 – Externship in Advanced Neurology (3-6 units)

Course Description: Away rotation in Neurology where coursework meets the standards to be counted as an Acting Internship.

Prerequisite(s): Consent of instructor.

Learning Activities: Clinical Activity.

Grade Mode: Honors/Pass/Fail.

NEU 493F – Issues in Geriatric Care (6 units)

Course Description: Four-week module teaches an approach to common problems in the elderly through history and exam, with an emphasis on integration of underlying anatomy, physiology, and pathophysiology in common geriatric presentations.

Learning Activities: Seminar.

Repeat Credit: May be repeated.

Grade Mode: Honors/Pass/Fail.

NEU 498NE – Group Study in Neurology (1-6 units)

Course Description: Directed readings and discussions with a comprehensive written examination at the end of course.

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

Learning Activities: Variable 3-5 hour(s).

Grade Mode: Pass/Fail only.

NEU 499 – Research (1-12 units)

Course Description: Approved for graduate degree credit. Laboratory investigation on selected topics.

Prerequisite(s): Consent of instructor.

Learning Activities: Laboratory 2-24 hour(s).

Repeat Credit: May be repeated.

Grade Mode: Honors/Pass/Fail.