Neurology

Chair

• George B. Richerson

Faculty: https://medicine.uiowa.edu/neurology/people/
primary-appointments
Website: https://medicine.uiowa.edu/neurology/

Neurology is the branch of medical science concerned with diagnosis and management of disorders of the brain, spinal cord, peripheral nervous system, and muscle.

The Department of Neurology’s hallmark is its history of carefully integrating patient care, scientific investigation, and the education of medical, postdoctoral, and graduate students. The department also offers research opportunities in various fields of neuroscience including neuropsychology, neuroimaging, and neuroanatomy to Ph.D. students in neuroscience and psychology.

Research

The faculty’s investigative interests center on cognitive neuroscience, degenerative diseases, cerebrovascular disease, neurogenetics, neuromuscular diseases, electrophysiological correlates of central and peripheral nervous system disease, growth factors in the nervous system, control and regulation of autonomic functions, neuroophthalmology, movement disorders, epilepsy, and pain management. For more information see the Department of Neurology website.

M.D. Training

The department provides clinical and clinical research training to second-, third-, and fourth-year M.D. students.

Residency

The Department of Neurology offers an active, four-year approved residency program that qualifies physician trainees for board certification in neurology. Experience in clinical electrophysiology, pediatric neurology, psychiatry, and neuropathology is part of this training.

Courses

Neurology Courses

NEUR:5365 Seminar: Neuropsychology and Neuroscience
Clinical neuropsychology and cognitive neuroscience: cutting-edge research from scientific journals, case presentations in clinical neuropsychology, and current research. Same as NSCI:5365, PSY:5365.

NEUR:6240 Topics in Cognitive Neuroscience 1-3 s.h.
Key topics in the neural basis of human cognition; research literature. Recommendations: graduate courses in basic neuroscience and cognitive psychology. Same as NSCI:6240.

NEUR:7235 Neurobiology of Disease 3 s.h.
Broad, thematic understanding of disease mechanisms in neurobiological disorders. Same as NSCI:7235.

NEUR:7238 Introduction to Neuropsychological Assessment arr.
Standard neuropsychological and behavioral assessment procedures; selection, administration, and scoring of neuropsychological tests under staff supervision; involvement in case presentation.

NEUR:7239 Advanced Neuropsychological Assessment arr.
Continuation of NEUR:7238; preparation of integrated reports on collected data; case presentations.

NEUR:8301 Clinical Neurology 2,4 s.h.
Experience in clinical neurology through ward work and case-based conferences linked to required reading; focus on neurologic examination, diagnosis of neurologic problems.

NEUR:8401 Advanced Inpatient Neurology 2,4 s.h.
Experience and management of patients with seizure disorders, headache, cerebrovascular diseases; conferences, clinical rounds; two weeks on each inpatient service for a total of four weeks. Prerequisites: NEUR:8301.

NEUR:8402 Advanced Outpatient Neurology 2,4 s.h.
Experience in evaluation, management of patients with various neurologic diseases; four weeks in clinic patient care. Prerequisites: NEUR:8301.

NEUR:8404 Advanced Inpatient Subinternship in Neurology 4 s.h.
Care of patients with acute and serious neurological diseases, management of patients with varied cerebrovascular diseases; treatment of acute brain disease, comorbid medical diseases, medical and neurological complications that occur among patients with stroke; clinical assessments of patients, writing orders and clinical notes, contribution to rounds; close communication with patients, families, and colleagues; assignment to evening calls for emergency visits and consultations.

NEUR:8497 Research in Neurology arr.
Medical research, clinical or laboratory projects; individual study.

NEUR:8498 Neurology On Campus arr.
NEUR:8499 Neurology Off Campus arr.