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, neuro-
ophthalmology, 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  arr.
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.