

# Neurology

## Chair

- George B. Richerson

**Faculty:** <https://neurology.medicine.uiowa.edu/profile/>

**Website:** <https://neurology.medicine.uiowa.edu/>

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 PhD 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.

The new Iowa Center for Neurodegeneration, housed in the Department of Neurology and affiliated with the Iowa Neuroscience Institute, will concentrate on combating neurodegenerative diseases such as Alzheimer's disease, Parkinson's disease, dementia, and amyotrophic lateral sclerosis (ALS).

## MD Training

The department provides clinical and clinical research training to second-, third-, and fourth-year MD 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:7235 Neurobiology of Disease** 3 s.h.

Broad, thematic understanding of disease mechanisms in neurobiological disorders. Prerequisites: ACB:6252. Same as NSCI:7235.

**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.