Emergency Medicine

Chair
- Andrew Nugent

Faculty: https://medicine.uiowa.edu/emergencymedicine/people/primary-appointments
Website: https://medicine.uiowa.edu/emergencymedicine/learning-resources

The Department of Emergency Medicine prepares new physicians to recognize and treat a variety of urgent and emergent conditions. The program fosters basic science and clinical research relevant to emergency medicine and is dedicated to the education and training of Emergency Medical Services (EMS) personnel through the Emergency Medical Services Learning Resources Center (EMSLRC).

Resources
The Emergency Department, located on the first floor of Roy Carver Pavilion, is a Level I Adult and Pediatric Trauma Center. It serves as a referral center for communities across Iowa.

M.D. Training

Elective rotations for Doctor of Medicine students are available at University of Iowa Hospitals and Clinics and at several other sites throughout Iowa, including St. Luke's Hospital, Cedar Rapids; Great River Medical Center, Burlington; Covenant Medical Center, Waterloo; Broadlawns Medical Center, Des Moines; and MercyOne Siouxland Medical Center, Sioux City. Students also may arrange an off-service elective independently with established residency programs throughout the United States.

The program offers an annual introductory month to emergency medicine; advanced life support; and Wilderness Medicine, a rotation that includes scenario and didactic training in wilderness medicinal skills with travel to areas such as Colorado.

Residency

The emergency medicine faculty directs the Emergency Medicine Residency, Iowa's only emergency medicine residency. The residency is a three-year program that prepares residents for careers in diverse areas of emergency medicine, from rural practice to academics. The program emphasizes critical care training and rotations in a wide variety of specialties. Part of the clinical component is spent at St. Luke's Hospital, Cedar Rapids.

Courses

Emergency Medicine Courses

**EM:8402 Emergency Medicine UIHC**
- Preceptorship with residents and faculty; emphasis on principles of acute medicine; clinical shifts, case conferences, simulations, exams. Requirements: completion of surgery, pediatrics, and internal medicine or advanced practice management.

**EM:8403 Wilderness Medicine**
- 4 s.h.
- Didactic and scenario training in physiology, diagnosis, and emergency treatment of heat- and cold-related illnesses, high altitude disorders, wilderness trauma, envenomations, and immersion injuries. Taught in wilderness areas. Requirements: completion of M.D. third year.

**EM:8404 Emergency Medicine: St. Luke’s, Cedar Rapids**
- 4 s.h.
- Preceptorship with full-time emergency department physicians; clinical shifts, case conferences, simulations, exams. Requirements: completion of M.D. third year.

**EM:8405 Rural Emergency Medicine at Burlington, Iowa**
- 4 s.h.
- In-depth clinical experience in a busy rural hospital emergency department under supervision of residency-trained emergency physicians; lectures, skill labs, projects. Requirements: completion of M.D. third year.

**EM:8406 Emergency Medicine Des Moines**
- 4 s.h.
- Participation in acute emergency care, management of acute illnesses, follow-up care when possible; Broadlawns Hospital, Des Moines. Requirements: completion of surgery, pediatrics, and internal medicine or advanced practice management.

**EM:8407 Emergency Medicine Waterloo**
- 4 s.h.
- Participation in acute emergency care, management of acute illnesses, follow-up care when possible; Covenant Medical Center, Waterloo. Requirements: completion of M.D. third year.

**EM:8409 Transition to Residency**
- 2 s.h.
- Intensive program providing basic training in life support skills, experience in procedures common to inpatient hospital environment, and practice with simulated critical care scenarios; lectures, small group discussions, procedure labs, high-fidelity simulations, and self-directed online learning; students become certified in Advanced Cardiac Life Support (ACLS). Requirements: completion of surgery, pediatrics, and IM or APM.

**EM:8410 Medical Toxicology Sioux City**
- 2,4 s.h.
- Clerkship at the Iowa Poison Control Center; intense introduction to breadth and depth of medical toxicology; students work independently and concentrate on many different areas and interests; work with a multidisciplinary team of nurses, pharmacists, and physicians; activities may include reviewing and presenting active poisoned patient cases during daily rounds and opportunities to see toxicology patients at bedside; preparation and short presentation in any area of medical toxicology. Requirements: M.D. enrollment.

**EM:8411 Medical Toxicology UIHC**
- 2 s.h.
- In-depth introduction to medical toxicology; how to recognize and treat various toxicidromes and the most common toxicologic exposures; initial management steps for life-threatening toxicologic exposures; focus on basics of pathophysiology and pharmacology to understand how drugs affect patients, and critical assessment of laboratory and other data obtained on the poisoned patient.

**EM:8497 Research in Emergency Medicine**
- arr.
- Medical research, clinical or laboratory projects; individual study.

**EM:8401 Introduction to Advanced Life Support Skills**
- 4 s.h.
- Experience managing acute threats to life—including trauma, respiratory failure, poisoning, sepsis, stupor/coma, and acute MI—using ACLS and PALS courses and clinical manikin work with EMS staff. Requirements: completion of M.D. core clerkship year.
EM:8498 Emergency Medicine On Campus arr.
Clinical research experience with a mentor in the Emergency Treatment Center and the Department of Emergency Medicine; principles of design, methodology, basic statistics.

EM:8499 Emergency Medicine Off Campus arr.
Preceptorship with residents and faculty; emphasis on principles of acute medicine; Liaison Committee on Medical Education (LCME) accredited off-campus site. Requirements: completion of M.D. third year and approval from UIHC Emergency Medicine clerkship director.