Emergency Medicine

Chair
- Andrew Nugent

Faculty: https://medicine.uiowa.edu/emergencymedicine/profile
Website: https://medicine.uiowa.edu/emergencymedicine/

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).

Research
Research in the department is built on four research pillars: clinical, injury prevention, medical education, and health systems. Faculty members, graduate students, emergency medicine residents, medical students, and undergraduates are involved in research in a variety of projects and programs. Specific research interests include:

- rural regionalization and teledmedicine;
- quality of care, efficiency, and cost effectiveness of interhospital transport;
- prevention, diagnosis, and care of traumatic brain injury;
- off-road injury prevention;
- highway motor vehicle crash scene analysis;
- safe driving advocacy;
- simulation in medical education;
- improving access and quality of emergency care;
- decision-making processes for optimal drug selection in the emergency department;
- addiction medicine and harm reduction;
- toxicology;
- global health care access; and
- early risk stratification and prophylaxis in critical illness.

Patient Care
The Department of Emergency Medicine at University of Iowa Hospitals & Clinics and University of Iowa Stead Family Children's Hospital provides care for the most critically ill adults and children in a patient- and family-centered atmosphere. The department handles emergency cases in Iowa and from surrounding states.

Resources
The Emergency Department, located on the first floor of Roy J. 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 & Clinics and at several other sites throughout Iowa, including St. Luke's Hospital, Cedar Rapids; Great River Health, Burlington; MercyOne Waterloo Medical Center, Waterloo; Broadlawns Medical Center, Des Moines; UnityPoint Health, Des Moines; and Genesis Health Group, Davenport. 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; Wilderness Medicine, a rotation that includes scenario and didactic training in wilderness medicinal skills with travel to areas such as Colorado; and a two- or four-week toxicology elective.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM:8301</td>
<td>Core Emergency Medicine</td>
<td>2 s.h.</td>
</tr>
<tr>
<td>EM:8401</td>
<td>Advanced Life Support</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>EM:8402</td>
<td>Emergency Medicine UIHC</td>
<td>arr.</td>
</tr>
<tr>
<td>EM:8403</td>
<td>Wilderness Medicine</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>EM:8404</td>
<td>Emergency Medicine: St. Luke’s, Cedar Rapids</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>EM:8405</td>
<td>Rural Emergency Medicine at Burlington, Iowa</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>EM:8406</td>
<td>Emergency Medicine Des Moines</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>EM:8407</td>
<td>Emergency Medicine Waterloo</td>
<td>4 s.h.</td>
</tr>
</tbody>
</table>

Exams.

M.D. Training
Elective rotations for Doctor of Medicine students are available at University of Iowa Hospitals & Clinics and at several other sites throughout Iowa, including St. Luke's Hospital, Cedar Rapids; Great River Health, Burlington; MercyOne Waterloo Medical Center, Waterloo; Broadlawns Medical Center, Des Moines; UnityPoint Health, Des Moines; and Genesis Health Group, Davenport. 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; Wilderness Medicine, a rotation that includes scenario and didactic training in wilderness medicinal skills with travel to areas such as Colorado; and a two- or four-week toxicology elective.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM:8301</td>
<td>Core Emergency Medicine</td>
<td>2 s.h.</td>
</tr>
<tr>
<td>EM:8401</td>
<td>Advanced Life Support</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>EM:8402</td>
<td>Emergency Medicine UIHC</td>
<td>arr.</td>
</tr>
<tr>
<td>EM:8403</td>
<td>Wilderness Medicine</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>EM:8404</td>
<td>Emergency Medicine: St. Luke’s, Cedar Rapids</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>EM:8405</td>
<td>Rural Emergency Medicine at Burlington, Iowa</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>EM:8406</td>
<td>Emergency Medicine Des Moines</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>EM:8407</td>
<td>Emergency Medicine Waterloo</td>
<td>4 s.h.</td>
</tr>
</tbody>
</table>

Exams.
EM:8409 Introduction to Advanced Life Support 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).

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 toxicity patients at bedside; preparation and short presentation in any area of medical toxicology. Requirements: M.D. enrollment.

EM:8411 Medical Toxicology UIHC 2,4 s.h.
In-depth introduction to medical toxicology; how to recognize and treat various toxidromes 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:8412 Emergency Medicine Unity Point Des Moines 4 s.h.
Clinical shifts in emergency department and emergency medicine related didactics; advanced cardiovascular life support (ACLS), airway management, calling a consult/communication, chest pain, toxicology, trauma, sepsis, ultrasound, febrile infant, headache, and psychobehavioral disorders.

EM:8413 Emergency Medicine Genesis Davenport 4 s.h.
Clinical shifts in emergency department and emergency medicine related didactics; advanced cardiovascular life support (ACLS), airway management, calling a consult/communication, chest pain, toxicology, trauma, sepsis, ultrasound, febrile infant, headache, and psychobehavioral disorders.

Medical research, clinical or laboratory projects; individual study.

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.