

EMERGENCY MEDICINE (EMED)

Courses

EMED 3005. Emergency Medicine Clerkship. 4 Credit Hours.

This four week core clerkship introduces the 3rd year medical students to the specialty of emergency medicine and reviews principles of emergency care that will benefit a graduate entering any specialty.

EMED 4002. Topics in Emergency Medicine. 2 Credit Hours.

This elective will allow students to create, implement, and/or complete special clinical, research and/or educational projects in the specialty of Emergency Medicine. Specific learning objectives will be written and tailored to the project by the supervising faculty member with approval by the course director prior to the start of the elective.

EMED 4005. Emergency Medicine Selective. 4 Credit Hours.

This sub-internship is designed to prepare students for the intense and responsible role of the intern. The sub-intern is an integral member of the team and will participate in all team activities and medical care for his/her patients, under the supervision of the Emergency Medicine attending. In addition to working clinical shifts, students are expected to participate in didactic sessions and perform ambulatory ride-alongs to successfully complete the course. This course is an outpatient selective. Prerequisite: EMED 3005.

EMED 4006. Toxicology and Poison Center Clinical Elective. 4 Credit Hours.

The Toxicology & Poison Center rotation is a 4-week, on-campus, pass-fail elective in the MS-4 year. This rotation is designed to develop fundamental knowledge and skills necessary to evaluate and treat patients experiencing a wide range of poisonings, envenomations, and toxicological exposures. The learner will develop skills to diagnose and manage acute and chronic poisoning in adults and children, covering the spectrum of not sick to critically ill patients. Participants will learn about the major classes of intoxication/poisoning, as well as relevant antidotes and supportive care. Environmental and occupational toxicology are also emphasized, along with terrorist toxicological weapons of destruction. The concentrated experience of lectures, case discussion rounds, webinars, simulation scenarios, hands-on toxicology lab, journal club discussion, telephone consultations, teaching by Specialists in Poison Information, and occasional patient encounters will provide an educationally rich and productive experience. Students have the opportunity to participate in a wide variety of educational experiences including toxicology case rounds, topic presentations, conferences, informal teaching sessions reviewing interesting cases with toxicology faculty, poisoning prevention, and community educational outreach activities.

EMED 4007. Wilderness and Survival Medicine. 4 Credit Hours.

Wilderness and Survival Medicine is a four-week elective designed to prepare students to practice safely in resource-limited and backcountry environments. The course consists of three weeks of face-to-face instruction and skills-training and an additional four-day wilderness practicum. All instructors are UT Health San Antonio faculty from the Departments of Emergency Medicine, Orthopedics, and Medicine. In addition to the standard wilderness medicine curriculum, students will receive specialized training in austere ultrasound, infectious disease, and survival. Upon successful completion of this course, students will be eligible for Advanced Wilderness Life Support (AWLS) certification. Prerequisites: Completion of the Emergency Medicine (3rd year) clerkship.

EMED 4008. Emergency Medicine in Global Health. 4 Credit Hours.

The elective is designed for senior medical students who will be pursuing Emergency Medicine residency, and who have interest in global health or emergency care in resource-limited environments. The entirety of the World Health Organization Basic Emergency Care (WHO BEC) curriculum for initial care of acutely ill or injured patients will be covered, and students will also complete a "training of the trainer" program so that they can be certified to co-teach the WHO BEC curriculum in the future. This will be the major component of the elective, and will strengthen senior medical students' confidence and abilities in patient resuscitation in both resource-rich and austere environments. This will also allow students to educate and develop other healthcare providers. This elective curriculum will also touch upon more advanced emergency care topics, high-yield tropical medicine, environmental and wildlife exposures, travel medicine, global health ultrasound applications, and humanitarian aid response. The curriculum consists of lectures, small group and case-based sessions, and hands-on skill sessions. Students will be evaluated based on their attendance, participation in group-based scenarios, and written examination. Prerequisites: EMED 3005. Open for Cross Enrollment on Space Available Basis.

EMED 4051. Emergency Ultrasound. 4 Credit Hours.

Senior (4th year) medical students will be instructed in the basic use of ultrasound equipment and its application in the emergency department. Topics to be covered during this elective include ultrasound equipment and knobology, basic ultrasound physics, ultrasound-guided vascular access (peripheral, central, arterial), Extended Focused Assessment with Sonography for Trauma (E-FAST), aortic ultrasound, pelvic ultrasound, biliary ultrasound, bedside echocardiography, musculoskeletal ultrasound, deep venous thrombosis evaluation, ocular ultrasound, ultrasound guided regional anesthesia, thoracic ultrasound, renal and bladder ultrasound, ultrasound-guided procedures. This training will be accomplished with a combination of didactic lectures, extensive supervised bedside ultrasound training on emergency department patients, independent student ultrasound scanning sessions, required textbook reading, weekly video review sessions and weekly literature review. Each student will be required to complete a minimum of 100 complete ultrasound examinations covering the scope of the course material. This elective is designed to provide a base knowledge in emergency ultrasound for students interested in pursuing an emergency medicine residency.

EMED 4060. Disaster Medicine, Climate Change, Emergency Preparedness. 4 Credit Hours.

This intensive course is designed to equip medical professionals with the knowledge and skills necessary to effectively respond to a wide range of disasters and emergencies, both natural and non-natural. Participants will engage with a multidisciplinary approach covering disaster medicine, incident command systems, emergency preparedness, and global health considerations. This course is only open to 4th year or late 3rd year medical students who have completed their core clerkships. Prerequisites include completion of all core clerkships. Open for Cross Enrollment on Space Available Basis.

EMED 4076. Emergency Medicine Rotation - Brooke Army Medical Center. 4 Credit Hours.

BAMC is a Level 1 Trauma Center seeking approximately 50,000 patients per year. All patient types are seen: trauma victims, complicated medical patients, children, OB/GYN patients and psychiatric patients. There is no "compartmentalization" of the Emergency Department. Students work on average of 5 eight-hour shifts per week with a mixture of days, evenings, nights and weekends. Students work one-on-one with staff physicians or senior emergency medicine residents. There are five hours of Grand Rounds per week. There is Morning Report every Monday, Tuesday, Wednesday and Thursday. Each student has the opportunity to participate in a procedure lab, DPL, chest tubes, thoracotomy, transvenous pacing and cricothyroidotomy. This rotation must be arranged through Vanessa Soto, even if you are a HPSP student. No late Drops will be accepted.

EMED 7000. Off Campus Rotation In Emergency Medicine. 4 Credit Hours.

All off campus rotations must be approved by the designated faculty member prior to the beginning of the rotation (at least one week before the course begins). Credit will not be given for any rotation that has not been approved in advance. Required paperwork includes: "Course Approval" form, a written letter or email of acceptance from the physical preceptor with the start and ending dates of the course/rotation, and a course description of your learning objectives and responsibilities during the rotation. Forms must include a complete address and telephone number for the off campus location or residence address for the student while at the off campus site. Forms will not be approved after the rotation has already begun.