

EMERGENCY MEDICINE (EMED)

EMED G700 - Emergency Medicine Clerkship (2 Credits)

The Emergency Medicine Clerkship introduces students to the principles of acute care medicine while providing in-depth exposure to the specialty of Emergency Medicine. Students will encounter a wide range of patients, presenting complaints, and levels of acuity. Students will have the opportunity to evaluate patients as well as formulate effective testing and treatment strategies. Active participation in patient care and procedural skills are emphasized in a strictly supervised setting. During the course, students will complete daytime, nighttime, and weekend shifts as they rotate through a variety of emergency clinical settings, including the level one trauma center and tertiary care facility of Greenville Memorial Hospital (adult areas and Peds ED), and the outlying community emergency departments of Hillcrest in Simpsonville, Greer Memorial in Greer, North Greenville in Traveler's Rest, and Baptist-Easley Hospital in Easley. Students will also have an eight-hour teaching shift with an EM resident.

EMED G715 - Emergency Medicine Pediatric Focus (2 Credits)

This two week elective is designed for third year medical students who are interested in gaining in depth exposure to Emergency Medicine, with an emphasis on Pediatric Emergency Medicine. Students will work primarily in the Pediatric Emergency Department at Greenville Memorial Hospital. This department is located in a tertiary care facility, and students will have the opportunity to evaluate a variety of common (and very uncommon) complaints. They will also work approximately 2 shifts in a community emergency department in Traveler's Rest, where they will gain better understanding of community pediatric emergency medicine and gain some exposure to common adult emergencies as well. The Emergency Medicine – Pediatric Focus rotation will introduce students to the principles of acute care medicine. Students will have the opportunity to evaluate patients and develop understanding of common and life-threatening illness across a wide range of ages, as well as formulate effective testing and treatment strategies. Active participation in patient care and procedural skills are emphasized in a strictly supervised setting.

EMED G720 - Procedural and Advanced Emergency Medicine (2 Credits)

This is a two-week Emergency Medicine elective designed for students who are interested in learning more about Emergency Medicine and procedures in Emergency Medicine. During this course, students will have the opportunity to practice a variety of advanced emergent procedures, such as airway management and central venous access, in a simulated environment. Students will also be introduced to basic concepts of medical and trauma resuscitation through didactic learning and hands-on practice in the simulation center. In addition, students will work four, eight-hour shifts in the Emergency Department, where they will be immersed in the specialty of Emergency Medicine and the principles of acute care medicine. Students will encounter a wide range of patients, presenting complaints, and levels of acuity. Active management and ownership of patients is emphasized in a strictly supervised setting. These shifts will include one shift in the critical care area at Greenville Memorial Hospital and three additional shifts that may take place at Greenville Memorial and the community hospitals of Greer, Hillcrest, Baptist Easley, Oconee, and Laurens. In general, these shifts will include a weekend shift and one overnight shift. Students will also complete one teaching shift guided by a dedicated senior resident at Greenville Memorial. During this shift, they will receive dedicated teaching in a small group on topics such as procedural skills, resuscitation, documentation, or other topics inspired by patients seen in the Emergency Department. At the conclusion of the rotation, students will complete a final assessment in the simulation center, where they will demonstrate patient management and procedural skills developed on the rotation.

EMED G760 - Emergency Medicine as Microcosm (2 Credits)

As social, economic, and racial disparities continue to grow in our country, the Emergency Department provides one of the last refuges available to all, without any barrier to entry. By critically evaluating the patients, staff, and care provided in the Emergency Department, students will gain insight into the current state of our society and identify areas for positive engagement. The intersection of public health and the individual needs of each patient who presents to the Emergency Department will also be explored. Topics will include social determinants of health, narrative medicine, the impact of health (and non-health) policy, and the role of implicit bias.

EMED G800 - Emergency Medicine Acting Internship (4 Credits)

This is a four week Acting Internship designed for fourth year medical students, especially those who may be interested in pursuing a career in Emergency Medicine. It rotates students through a variety of emergency clinical settings, including the level one trauma center and tertiary care facility of Greenville Memorial Hospital (with shifts in Critical Care, Intermediate Care, and our Children's Emergency Center), and the outlying community emergency departments of Hillcrest in Simpsonville, Greer Memorial in Greer, and North Greenville in Traveler's Rest. Shifts will vary from 8 to 12 hours in length and incorporate some weekends, evenings, and nights in an equitable fashion. The A-I in Emergency Medicine will immerse students in the specialty of Emergency Medicine and the principles of acute care medicine. Students will encounter a wide range of patients, presenting complaints, and levels of acuity. Active management and ownership of patients is emphasized in a strictly supervised setting. There will also be an end of rotation final exam and brief patient presentation.

EMED G810 - Emergency Medicine (2 Credits)

This is a two week rotation designed for fourth year medical students who are interested in gaining in depth exposure to the specialty of Emergency Medicine. Students will rotate through a variety of emergency clinical settings, including the level one trauma center and tertiary care facility of Greenville Memorial Hospital (with shifts in Critical Care, Intermediate Care, and our Children's Emergency Center), and the outlying community emergency departments of Hillcrest in Simpsonville, Greer Memorial in Greer, and North Greenville in Traveler's Rest. Shifts will vary from 8 to 12 hours in length and incorporate some weekends, evenings, and nights in an equitable fashion. The Emergency Medicine rotation will introduce students to the principles of acute care medicine. Students will encounter a wide range of patients, presenting complaints, and levels of acuity. Students will have the opportunity to evaluate patients as well as formulate effective testing and treatment strategies. Active participation in patient care and procedural skills are emphasized in a strictly supervised setting.

EMED G815 - Pediatric Emergency Medicine (2 Credits)

This is a two week rotation designed for fourth year medical students who are interested in gaining in-depth exposure to the specialty of Pediatric Emergency Medicine. Students will be taught at the tertiary care facility of Greenville Memorial Hospital Children's Emergency Center. Student shifts will vary from 8 to 12 hours in length, some of which will include weekends, evenings, and nights. The Pediatric Emergency Medicine rotation will introduce students to the principles of acute care Pediatric Emergency Medicine. Students will encounter a wide range of pediatric aged patients, chief complaints, and levels of acuity. Students will have the opportunity to evaluate patients as well as formulate effective testing and treatment strategies. Active participation in patient care and procedures are emphasized in a strictly supervised setting.

EMED G820 - Wilderness Medicine (2 Credits)

This course will serve as an introduction to wilderness medicine for the graduating medical student, utilizing wilderness scenarios and illnesses to review and expand their current medical knowledge. Traditional, simulation-based and outdoor experiential learning will be utilized to engage the learner and optimize retention.

EMED G825 - Prehospital Medicine (4 Credits)

Students will receive didactic lectures that describe EMS systems with regards to design, operations, communications, predictive deployment, fleet, finances, and human resources. Each student will participate in a variety of experiential activities that incorporate all forms of EMS delivery including rotations in the following areas: a. 9-1-1 communications center b. First responders c. EMS ambulance crews d. Interfacility transport services The student will actively participate in any quality improvement activity assigned by faculty and collaborate with EMS administrators and providers as needed to complete tasks. Teaching in any ongoing prehospital education course will be expected. Students will also participate in and discuss strategies involved with any preparedness planning activities and will participate in drills as applicable.

EMED G830 - Emergency Medicine Ultrasound (4 Credits)

The rotation will be comprised of the following components: 1. Self-directed learning (GHS EM Ultrasound Curriculum link under Didactics) 2. Hands-on scanning shifts in the emergency department (with US faculty and EM residents) with completion of QA sheets for scans performed 3. Participation in US educational sessions for EM residents 4. GHS US Division Conferences Each student's schedule will vary slightly month to month based upon US faculty availability for scan shifts in the ED. Didactics During the rotation students are expected to complete the GHS EM US Curriculum. This Curriculum is designed to provide a backbone of foundational knowledge that students will build upon while scanning. The curated resources are available free online or through the GHS Health Sciences Library. Hands-On Scanning Hands-on scanning will take place in the ED. The "GHS Ultrasound QA Sheet" will be used to maintain a record of the scans performed during the ultrasound rotation. Some shifts will be scanning with US faculty where students are in the ED scanning with an US faculty member (who is not working clinically). Other shifts will be assigned with US faculty members while they are working clinically to see the use of US in patient flow. Students will complete at least six 3-hour scanning shifts per week in addition to participating in educational activities as scheduled. Student schedule will mirror the EM resident schedule on US, which varies from week to week.

EMED G835 - Urgent Care (2 Credits)

This two week elective offers an opportunity for each student to evaluate and formulate a plan for treatment for patients in the Urgent Care setting with direct supervision by an attending physician throughout the entirety of each shift. Shifts will range from 8-12 hours and occur approximately 7-9 times throughout the rotation. Students will learn to evaluate patients in a timely but thorough manner. This includes learning to identify patients who may need transfer to a higher level of care, and learning what may be done to stabilize the patient prior to transfer, in addition to treating lower acuity patients. Students will learn basic procedural skills during this rotation and will be expected to attend one Emergency Medicine resident didactic session (generally falling on a Tuesday morning).

EMED G840 - Rural Emergency Medicine (2 Credits)

This is a two week rotation designed for fourth year medical students who are interested in gaining additional exposure to the specialty of Emergency Medicine specifically in rural, community based locations. Students will rotate through two rural community Emergency Departments, North Greenville in Traveler's Rest and Oconee Memorial Hospital in Seneca, with a roughly equitable split between the two locations. There will be 8 shifts, 8 hours in duration, which will incorporate days, evenings, and one weekend (either a Saturday or Sunday), but no overnights. Students will also be required to attend Emergency Medicine resident didactics on both Tuesdays. This Rural Emergency Medicine rotation will immerse students in the principles of acute care medicine with an emphasis on the challenges of practicing Emergency Medicine in a rural community setting. Students will have the opportunity to evaluate patients as well as formulate effective testing and treatment strategies. Active participation in patient care and procedural skills are emphasized in a strictly supervised setting.

EMED G845 - Emergency Medicine Interdisciplinary (2 Credits)

This two-week elective is designed for fourth year medical students who are interested in gaining a unique perspective into the Emergency Department (ED). From an all encompassing view, the M4 students will have an opportunity to work with the interdisciplinary staff that serves the ED patient. The schedule is arranged to have students work intimately with members of the ED faculty, Advance Practice Providers, House Resident Staff, Respiratory Care team, Nursing staff, Social Worker team, and ED technicians. It is through this bird's eye view that the student will learn to work with the care team to achieve appropriate patient care.

EMED G850 - Free Medical Clinic (2 Credits)

This is a longitudinal elective designed for fourth year medical students interested in gaining experience in working with a free medical clinic. Students will work closely with the Greenville Free Medical Clinic and with resident and faculty physician volunteers at the clinic. Students will see adult patients presenting for a medical visit. They will have the opportunity to evaluate patients and develop treatment plans, with a particular focus on resources available, under the supervision of USC-SOMG faculty. Students interested in the course will be required to submit a 1-2 paragraph statement discussing their prior experience with free clinics and why they would like to participate in.

EMED G855 - Medical Toxicology Longitudinal Elective (4 Credits)

This is a longitudinal elective for fourth year medical students interested in learning more about the practice of medical toxicology and the care of the acutely poisoned patient. Students will work closely with Medical Toxicology faculty to evaluate and treat patients across the lifespan presenting to Greenville Memorial Hospital with overdoses, toxic exposures, withdrawal syndromes, and envenomations. There will also be didactic components covering important core topics in Medical Toxicology. The didactic component will also include field trips to the Greenville Zoo to study venomous snakes, the Clemson Botanical Gardens to study toxic plants, and the Palmetto Poison Center in Columbia, SC to participate in poison center calls. Students will be expected to complete at least 15 patient consultations under the supervision of the faculty and residents. Students will also be expected to attend all field trips and participate in 8 human exposure calls during their time at the Palmetto Poison Center. Students will also be expected to cover all 15 core topics on the list below. The options for reviewing core topics will include patient encounters (preferred), field trips, chapter readings followed by in-person discussions with the course director, or simulation followed by debriefing. Finally, students will complete two short (5-10 minute) presentations on a topic of interest to them. Grading is pass/fail. Core topics: 1. Toxicology history, physical exam, and labs 2. Stabilization and decontamination of toxicology patients 3. Toxidromes 4. Acetaminophen 5. Aspirin 6. Carbon monoxide 7. Cardiac medications (beta-blockers, calcium-channel blockers, and digoxin) 8. Envenomation (snakes, spiders, scorpions, and hymenoptera) 9. Ethanol withdrawal 10. Household chemicals (caustics, hydrocarbons, cleaning products) 11. Opioids 12. Toxic alcohols (methanol, ethylene glycol, and isopropanol) 13. Toxic plants/mushrooms 14. Tricyclic antidepressants 15. Weapons of mass destruction (nerve agents, dirty bombs)

EMED G860 - Emergency Medicine as Microcosm (2 Credits)

As social, economic, and racial disparities continue to grow in our country, the Emergency Department provides one of the last refuges available to all, without any barrier to entry. By critically evaluating the patients, staff, and care provided in the Emergency Department, students will gain insight into the current state of our society and identify areas for positive engagement. The intersection of public health and the individual needs of each patient who presents to the Emergency Department will also be explored. Topics will include social determinants of health, narrative medicine, the impact of health (and non-health) policy, and the role of implicit bias

EMED G899 - Emergency Medicine Away Rotation (4 Credits)

The student will complete an intensive study of Emergency Medicine at another hospital or practice. This course must be approved through the VSAS application service or office of the M3/M4 Director.