

# Scholarly Concentration in Emergency Preparedness and Response

## Mission

Provide future physicians with training in aspects of Emergency Operations, Disaster Medicine, Bioterrorism Preparedness and Response, and Risk Communication.

The Program includes didactic coursework, research experience (Bench Science, Epidemiology, or Drill Development/Review), and an experiential component (Training Drill and Emergency Medical Services)

## Timeline for student completion of concentration requirements:

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Year 1: Didactic Courses\*  
UTMS Summer Research Program (10 weeks)  
Year 2: Didactic Courses\*  
Year 3: Didactic Courses\*  
Year 4: Experiential Activities\*\*

\*Any sequence and yearly distribution of didactic courses (listed below) is acceptable, but all must be completed by the end of Year 3.

\*\*All experiential activities (listed below) are required.

## Didactic Requirements (to be completed by the end of year 3)

- Emergency Operations Management Course, a series of 4 nationally recognized free on-line courses from FEMA, called Incident Command Systems 100, 200, 700, and 800. <https://training.fema.gov/EMIWeb/IS/ICSResource/TrainingMaterials.htm> (total time = 11 h).
- Risk Communication Course (SPH), a lecture (live or recorded) that provides strategy for preparing messages during emergencies to avoid mixed messages and confusion between officials and the public. (time = 2 h)
- Core Disaster Life Support Training, a free on-line course from the National Center for Biomedical Research and Training that serves as an introduction to all-hazards preparedness: a brief overview of natural and accidental man made events, traumatic and explosive events, nuclear and radiologic events, biological events, and chemical events. (time = 4 h)
- Bioterrorism Preparedness and Response Course (MS), a 10-week seminar series with lectures from local experts on topics ranging from the biology of Select Agent organisms to clinicians' and scientists' responsibilities relevant to the threat. The series occurs in the fall semester of odd years. Seminars are presented from noon to 1:00 pm. (total time = 10 h)

## Experiential Requirements

- Participation in a Training Drill (biological, chemical, or radiation) of the Texas State Guard, Texas Task Force One Urban Search and Rescue, or a Medical Reserve Core Unit (generally these occur monthly, advance notice required)
- Participation in the planning and execution of a hospital emergency exercise
- Elective - Emergency Medical Services and Disaster Medicine (year 4)

## Faculty-Mentored Student Scholarly Projects

Project may be Bench Science, Epidemiology, or Development/Review of a Training Drill. A 2-3 page proposal must be submitted to the directors for approval. Research will continue beyond Year 1 summer as necessary. Students will apply for funding from the SRP. Generally, students begin their research as part of the UTMS Summer Research Program (SRP). Students who are not awarded funding from the SRP, may be funded by the PI's grant.

Projects will result in an abstract, a poster presentation, and a student-authored manuscript.

- The abstract can be submitted to the Summer Research Program Abstract Book.
- The poster can be presented in the Summer Research Program Poster Session (Fall of year 2).
- The poster may be presented at other local or national conferences as the discretion of the research advisor.
- The paper may be submitted to a peer-reviewed journal in the field or (more likely) data from the paper may be combined with data from other related research for submission of a co-authored manuscript.

## Scholarly Concentration Faculty

| <b>Faculty Name</b>                | <b>Contribution(s) to Concentration</b>   |
|------------------------------------|---|
| <a href="#">Theresa M. Koehler</a> | Bench Research and Didactic Teaching  |
| <a href="#">Richard N. Bradley</a> | Emergency Medical Services and Disaster Medicine Elective and Didactic Teaching |
| <a href="#">Robert Emery</a>       | Public Health Research and Didactic Teaching                                    |

Current Mentors:

Jim Langabeer, PhD, FHIMSS, CMA  
Associate Professor and Director  
Center for Emergency Preparedness  
School of Public Health

