

BME

BME Master of Engineering Preceptorship for Biomedical Engineers

Who: Select BME Master of Engineering students

What: First-hand experience in a clinical environment. Get exposure to the clinical environment in an intensive hands-on experience and clinician engagements with additional components including pre-hospital orientation and skills / protocol introduction and weekly engagement during the semester.

When: Fall and spring semesters

Where: Guthrie Hospital in Sayre, PA

Why: Preceptorship is a well-known process in healthcare education described as a short-term relationship between a student novice and an experienced health care professional providing individual attention within a clinical environment.



BME 5100 leverages this methodology and enables our students to experience the dynamics of a clinical environment, observe the routine practice of a clinician, identify potential needs, and, through a formal process, evaluate the merits and provide ideas on how to address these perceived needs.

The instructor will educate the students about the clinical environment, dress and behavior code, interaction with hospital staff and patients, as well as monitor and manage each student-preceptor team. The instructor and other engineering faculty will also review the student's experiences and assist in any assignments the preceptor may have given to the student.

The preceptor will guide the student with in depth knowledge of the related anatomy, physiology and pathology associated with his specialty. The preceptor will also provide the student the ability to participate and observe as well as generate weekly assignments.

The sponsoring institution and the preceptors are very interested in the identified problems, the ideas resultant of the process, and how these ideas could be addressed by applying principles of engineering. The student will provide feedback in the form of a final report as well as an on-site poster presentation at the end of the academic year. The merited ideas will be placed in the pipeline for the sponsored design projects.

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