

ENRH-160: Clinical Informatics in Medicine

Course Directors: TBD

Faculty Sponsors: Mujeeb Basit, M.D. & Christoph Lehmann, M.D.

Departments: Clinical Informatics Center

Requirements:

Minimum participants: 5

Maximum participants: N/A

Rationale: The Clinical Informatics in Medicine elective aims to connect students with high profile faculty and hospital leadership within UTSW's informatics community, including Chris Lehmann, MD (Director of the Clinical Informatics Center); DuWayne Willett, MD (Chief Medical Informatics Officer for the UTSW Health System); and those actively engaged in health informatics research. 3 hands-on workshops will be held to introduce students to working with real world healthcare data in R, REDCap, and Epic.

Objectives: The intent of the lecture discussions is to give students an introduction to clinical informatics, and demonstrate how data and informatics are currently used at UTSW in guiding clinical practice and decision making. During the one-hour lecture series, clinical faculty will present a core theme of informatics and examples of its application across medicine here at UTSW. Students will learn how data is being used to drive evidence-based medicine and build impactful clinical decision support models; how healthcare data is collected, managed, wrangled, and analyzed; and how to critically evaluate data models. Additionally, students will be introduced to real-world examples of informatics being used in both clinical and basic science research. We will cover the use of ClinDEN, REDCap, and other campus resources to expand on the research skillset of students. A brief, hands on overview of navigating Epic will also be covered.

Format: One semester, 6 one-hour sessions, and 3 two-hour workshops. Classes will consist of guest presentations or interactive workshops.

Student Evaluation: Grading will be pass/fail. To receive transcript acknowledgment, students must attend 9 of 12 participant hours and complete the online REDCap course evaluation form.