PHYSICIANS, HOSPITALS AND CLINICS

EBME 480F

COURSE DESCRIPTION: Rotation through one or more health care provider facilities for a first-hand understanding of care delivery practice, coordination, and management issues. First-hand exposure to clinical personnel, patients, medical devices and instruments, and organizational workflow. Familiarity with provider protocols, physician referral practices, electronic records, clinical decision support systems, acute and chronic care, and inpatient and ambulatory care. (3 credit hours)

FACULTY: Mehran Mehregany, Ph.D.
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Director, Case School of Engineering San Diego

TEXTBOOK: None.

ADDITIONAL MATERIAL: Reference articles

PREREQUISITES: 480A, 480B, 480D

COURSE OBJECTIVES: This course is designed to provide the students with a first-hand understanding of health care delivery in a clinical setting.

TOTAL TIME IN CARE SETTING: 40 hours.

LOCATION: A hospital, clinic or care center approved by the course faculty. Student may suggest site(s).

COURSE GRADE: Diary (100%), detailing the learning experience, developing a list of needs that are potentially addressable by wireless health solutions, and designing a wireless health solution that brings value to a care setting, e.g., patient care, clinical education, clinical staff workplace quality, health care systems delivery/management, etc.

LECTURE SCHEDULE:

Module 1: Primary/Outpatient Care – experience care delivery in an outpatient setting

Module 2: Urgent Care – observe care in an urgent/emergent setting, including the initiation of an admission to the hospital

Module 3: Inpatient Care, MD – spend day with an inpatient medical team to see hospital care, in a teaching setting

Module 4: Inpatient Care, RN – shadow RN during inpatient admission, ongoing care, and discharge processes

Module 5: Follow-up Care – choose from amongst recovery settings to observe convalescent care

University Student Ethics Policy
http://studentaffairs.case.edu/ai/policy.html

Violations of the Student Ethics Policy will result in failure in the assignment in question or the course, or referral to the academic integrity board as per university policy.

All forms of academic dishonesty including cheating, plagiarism, misrepresentation, and obstruction are violations of academic integrity standards. Cheating includes copying from another's work, falsifying problem solutions or laboratory reports, or using unauthorized sources, notes or computer programs. Plagiarism includes the presentation, without proper attribution, of another's words or ideas from printed or electronic sources. It is also plagiarism to submit, without the instructor's consent, an assignment in one class previously submitted in another. Misrepresentation includes forgery of official academic documents, the presentation of altered or falsified documents or testimony to a university office or official, taking an exam for another student, or lying about personal circumstances to postpone tests or assignments. Obstruction occurs when a student engages in unreasonable conduct that interferes with another's ability to conduct scholarly activity. Destroying a student's computer file, stealing a student's notebook, and stealing a book on reserve in the library are examples of obstruction.