CMED 301 Medical Informatics Course Orientation 1435 - 2014

Who are we? Medical Informatics and e-learning Unit (MIELU)

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Health/Clinical/Biomedical Informatics

The science of health/clinical health/clinical
bio/medical

The science of health/clinical health/clinical n/knowledge is



×Manipulated

× Classified

×Organized

× Retrieved

× Stored

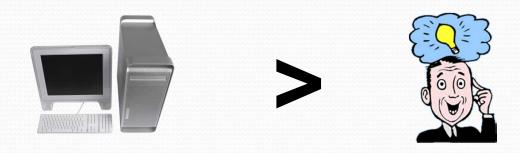


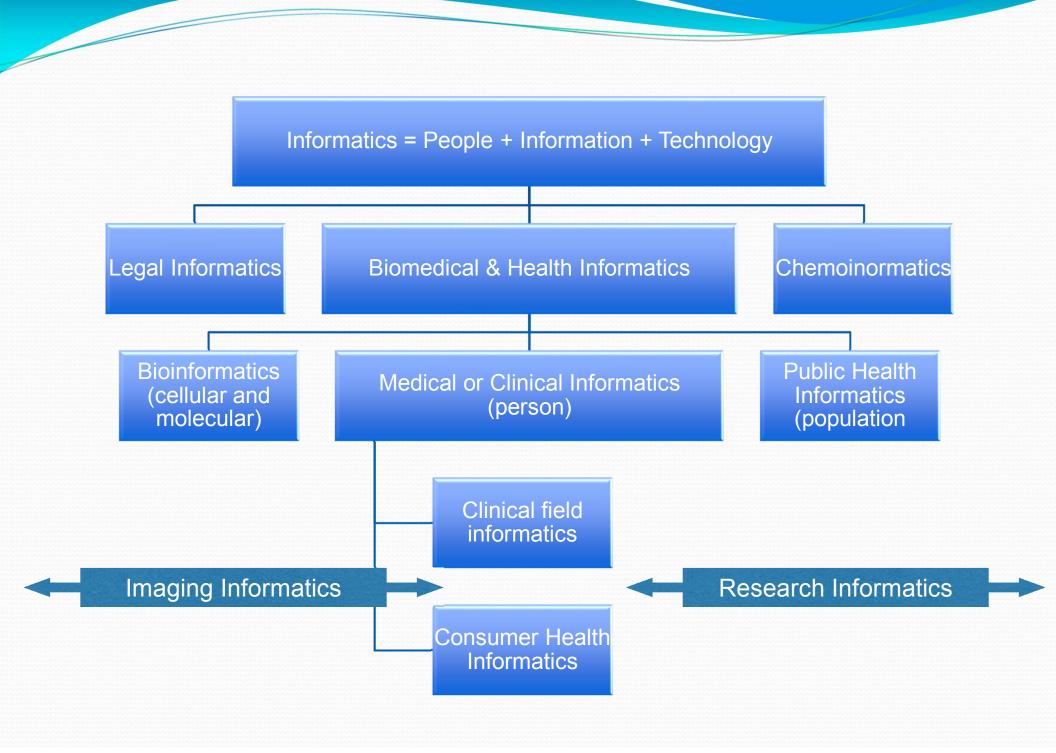
The Fundamental Theorem of Informatics (Friedman, 2009)

×Goal of informatics is



×Goal of informatics is not





Medical Informatics

- *This course is designed to provide 3rd year students with **knowledge and skills about Medical Informatics**.
- ×Students will learn how <u>data</u>, <u>information and</u> <u>knowledge is created</u>, <u>managed and processed</u> <u>using Information and Communication</u> <u>Technology</u>.
- *This course will also introduce the students to electronic health record, computerized physician order entry, imaging, and Internet health applications.

Learning Objectives (LO)

At the end of the course, students will be able :

LO1: To understand the current trends in medical informatics as they apply to the healthcare field and the health profession

LO2: To **increase awareness** of the ways in which information technology is used in **health-related situations**

LO3: To explore computer applications in health education, practice, administration and health research. Identify various types of information systems used within healthcare institutions.

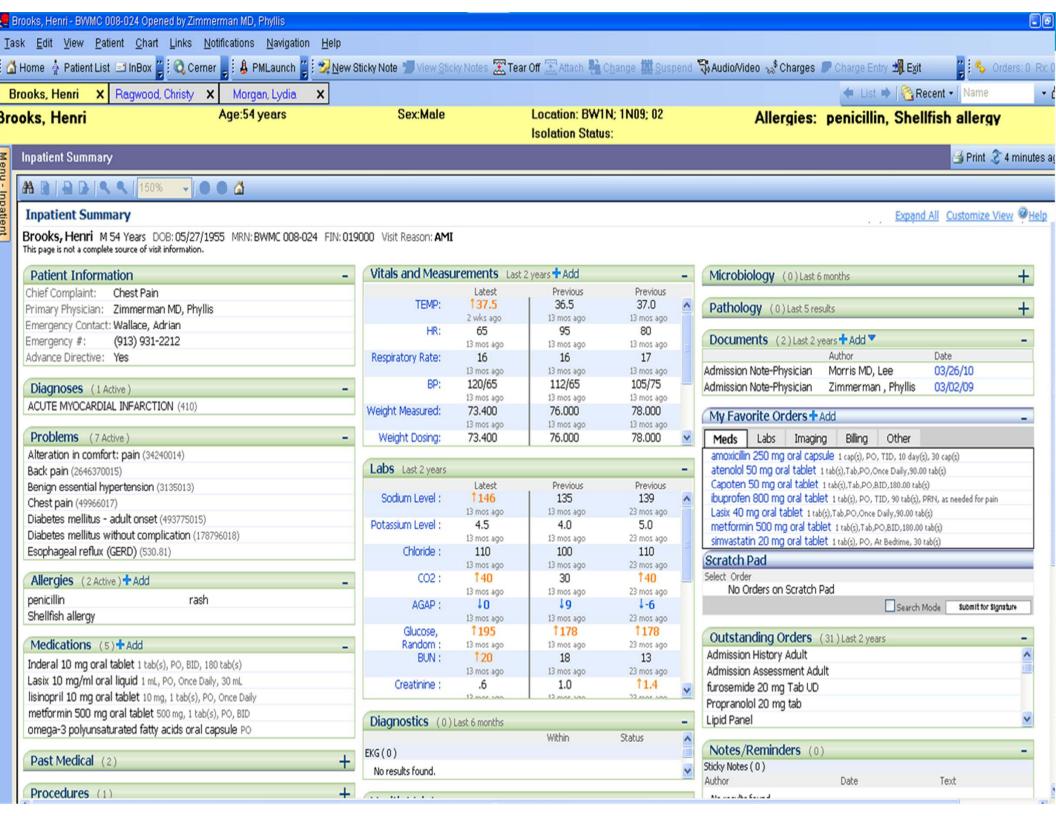
Learning Objectives

LO₄: To explore computer applications in_health education, practice, administration and health research.

LO₅:To identify various types of information systems used within **various units** in healthcare institutions

LO6:To conduct online search in healthcare literature as educational resources

Learning Objectives	Topics Covered	Assessments
LO1	All topics esp Consumer Health Informatics, Telehealth	Quiz, Midterm, Finals
LO2	Workshops, EHR, DSS, Telehealth, CPOE	Quiz, Midterm, Final, Workshop
LO3	EHR, DSS, Telehealth, CPOE	Quiz, Midterm, Final
LO4	CIS field visit, Ethics	CIS field visit report
LO5	Clinical Informatics as A Career for Physician, Ethics	Quiz, Midterm, Final
LO6	Tutorials & Workshops	Tutorials & Workshops



Assessments

- 1.Two Online quiz (10%)
- 2. Workshop & Tutorial Participation (10%)
- 3. Clinical Information System Site Visit Report Project (20%)
- 4. Midterm (20%)
- 5. Final Exam (40%)

Use of Computer and Web

- × Blackboard
- × Search Engine
- × Googledoc, SlideShare, Dropbox

Blackboard- Learning Management System

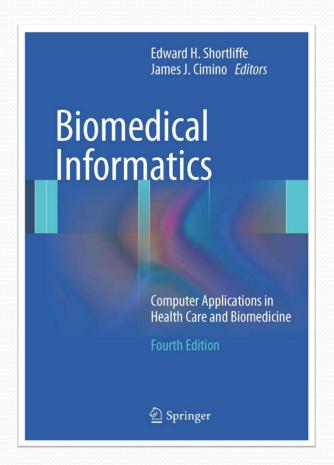
- × www.lms.ksu.edu.sa
- × Logging In
- × Course name
- × Download lecture slides/View lecture slides
- × Announcements
- × Online Quiz
- × Upload report

Resources

- × Notes from lecture
- × Readings from textbook

Shortliffe, E., Cimino, J. (2013).Biomedical Informatics: Computer Applications in Healthcare and Biomedicine, 4th Edition, Springer

- × Readings from selected papers
- × Discussion with faculty members/KKUH staff



Attendance

- Class Attendance
 Please come on time of the class
 10% missing- 1st warning letter
 20% missing- 2nd warning letter
 25%- will be barred from taking the final examination
- Workshop & Tutorial participationAttendanceActive Participation

Tutorial Sessions

- a. Discussion
- b. Quizzes
- c. Brainstorming Centers
- d. Review articles
- e. Guest Lecture and Demo
- f. Group presentations

Course Policy i. Lecture Hours

- - × Attend class regularly
 - × Pay attention
 - × Questions are welcomed
 - × Respect each other
- ii. Tutorial and Workshop Hours
 - × Be prepared
 - × Avoid flaming and arguing without basis
 - × Open discussion
 - × Discussion within given topics
 - × Other issues can be brought up outside classroom

Course Policy

iii. Grades

- Follow grading criteria (available on Blackboard)
- × Re-grading can only be done by submitting written requests and within one week after grade is announced.
- × Always check <u>Grade Center</u> from time to time and contact us if there's any error as soon as possible

Clinical Information System Site Visit

- To visit ONE clinical information system used in a healthcare organization/center/wards.
- Examples
 - Electronic Health Record,
 - Radiology Information System
 - Computerized Physician Order Entry
 - PACS

Clinical Information System Site Visit

CIS Milestone

Week 2: Announcement of the Project

Week 5: Select system & write letter to organization

Week 7-10: Visit Organisation (choose one convenient date)

Week11-15: Prepare CIS Site Visit Report

Week 22: CIS Presentation Day

Week 24: Submit Report

Stay Connected

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Facebook:

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Thank You

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