OVERVIEW:
This course is designed to provide an overview of the role technology and communications play in health care and the management of health care information. In addition to introducing basic concepts and architecture of information systems, emphasis will be placed on methods for system analysis, techniques, and skills necessary to search and acquire information, as well as approaches to converting observation and thought into appropriate clinical documentation, and applications to the management and operations of health care organizations. This course will also introduce students to appropriate health documentation techniques, health, and administrative research using health information (clinical records, administrative documents) for achieving a more efficient, accountable and better quality of health care system operation and management.

COURSE OBJECTIVES:
Upon completing this course, students will be able to

- Discuss the significance of information and knowledge management for healthcare delivery, healthcare professionals, and healthcare consumers.
- Describe the role technology plays in the management of healthcare information.
- Discuss how information systems affect privacy, confidentiality, and security from the legal and ethical perspectives.
- Differentiate between the electronic medical record (EMR), electronic health record (EHR), computer-based patient record (CPR) and personal health record (PHR)
- Analyze the impact of legal and regulatory requirements on the management of healthcare information.

Topics covered in the course are as follows:

I. Basic introduction to Information System
   A. Information Concepts
      Information Technology Terminology and History
      System Thinking: General System Concept
   B. Information Technology
      Computer Hardware
      Computer Software
      Networking and Telecommunication
   C. Building information architecture for integrated health delivery systems
   D. Introduction to new technologies in healthcare

II. Information System Planning and Management
   A. Strategic Information Systems Planning
B. Health Management Information System Development and Analysis Methodologies
   System Design, Evaluation and Selection
C. Data Management
   Data sources
   Developing and using sources of data
   Integrating technology: architecture of health management information system
D. Privacy, confidentiality, security and data integrity
   HIPAA
   Legal & Ethical issues
   Risk Management of health management information system

III. Applications of Management Information System in health care organizations
   A. Quality/outcome improvement project
   B. Financial consideration
   C. Operational/ function improvement

IV. Internet & Health Resources
   A. E-Commerce
   B. World-wide-web access
   C. Health Information and resources on the Internet

Textbook and Readings

**Required Textbook:**


**Additional books of interest:**


Additional Readings: There are several journals that you may want to review to supplement your textbook readings. Among them are


- *Healthcare informatics*: the business magazine for information and communication systems [www.healthcare-informatics.com/](http://www.healthcare-informatics.com/) (also see Bell Library holdings)


- *CIN: Computers, informatics, nursing* [www.cinjournal.com/](http://www.cinjournal.com/) (also see Bell Library holdings)

Other readings may be found in journals specific to your specialty or area of interest.

Expectations for class

Students are responsible for active participation in the classroom and on the Blackboard site for the course. This will require students to log on to the site frequently, and to complete all assignments. Communication will be in classroom and via Blackboard e-mail and discussion board. If you experience difficulties with Blackboard be sure to contact the help desk TAMUCC Island Online Help Desk at (361)825-2825 or long distance 1-866-353-2491, or iol.support@tamucc.edu.

Course Requirement and Evaluation

Class participation: Participation in class and on-line discussions is required. Students are expected to post individual responses to the topics identified in Blackboard. Postings should reflect original thought based on textbook readings as well as related articles.

Assignments

Assignments and papers should be submitted on-line via Blackboard using the Assignments tool. Students will also post the Power Point from the final paper on the discussion board so that all students can review and critique. Assignments submitted late will have points deducted, at the discretion of the course faculty. No assignment will be accepted if late for more than one week.

Grading

Grades will be assigned based on the following assignments:

1. Class participation via attendance and postings to assigned discussion topics.

2. Graded assignments and on-line, objective exams/quizzes designed to test your understanding of the information technology issues covered in the class.

3. A written partner/group project, approximately 10 - 15 double-spaced pages in length, excluding title page and references. Specific project requirements and possible topics will be discussed in class and posted on Blackboard along with the grading sheet.
Grades will be assigned based on the following weight

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<th>Component</th>
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<tr>
<td>Class participation</td>
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<tr>
<td>Graded assignments, quizzes/exams</td>
<td>35%</td>
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<td>Group project &amp; presentation (Project report and Power Point)</td>
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<td><strong>Total</strong></td>
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<td>90 - 100</td>
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<td>83 - 89</td>
<td>B</td>
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<td>75 – 82</td>
<td>C</td>
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<tr>
<td>66 and below</td>
<td>F</td>
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Plagiarism:
The highest standards of academic honesty are expected from the student. Faculty adheres to the University policy regarding academic honesty as published in the University Catalog. Refer to APA Manual, p. 95-98 for the proper way to use and cite quoted material. Plagiarism means to steal and pass off the work of another as one’s own work. It usually results from bad paraphrasing or improper referencing. The substitution of a few changes from those of the original author and forgetting to use quotation marks, and reference citation are technically considered plagiarism. The only safe way to paraphrase is to read the original over several times and then write your conception of what you have read without looking at the original. In other words, when paraphrasing, keep the source book closed! Wilson, p. 523


Statement for Americans with Disabilities Act:
Texas A&M University-Corpus Christi is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 93112-The Rehabilitation Act of 1973 as amended. With the passage of new federal legislation entitled Americans with Disabilities Act - (ADA), pursuant to section 504 of The Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens.

As a faculty member, I am required by law to provide “reasonable accommodation” to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty at the beginning of the semester and in providing authorized documentation through designated administrative channels. Information regarding specific diagnostic criteria and policies for obtaining academic accommodations can be found at [http://disabilityservices.tamucc.edu/](http://disabilityservices.tamucc.edu/). Also you may visit the Office of Students with Disabilities in Driftwood 101 on campus.

Academic Advising
The College of Nursing and Health Sciences requires that students meet with an Academic Advisor as soon as they are ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a faculty mentor, and the department chair. The College’s Academic Advising Center is located in the Island Hall, rooms 318, and 321 advisors are Rachael Verhayden 825-3748 (last name M-Z) and Angelica Santillan 825-2461 (last name A-L).

Academic Honesty:
University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to a penalty includes all forms of cheating, such as illicit possession of examinations or examination
materials, forgery, or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.) [http://judicialaffairs.tamucc.edu/StudentCofC.html](http://judicialaffairs.tamucc.edu/StudentCofC.html)

**Grade Appeal Process**

As stated in the College of Nursing and Health Sciences (CONHS) Handbook under section VII Policies and Procedures, a student that believes they have an academic grade appeal is encouraged to go through the CONHS academic review process prior to pursuing University Grade Appeal. See the handbook for the process.

As stated in University Rule 13.02.99.C2, Student Grade Appeals, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Rule 13.02.99.C2, Student Grade Appeals, and University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules Web site at [http://www.tamucc.edu/provost/university_rules/index.html](http://www.tamucc.edu/provost/university_rules/index.html). For assistance and/or guidance in the grade appeal process, students may contact the Office of Student Affairs.