

**Health Information Systems  
HITT 1311**

**Course Description:** Introduction to health IT standards, health-related data structures, software applications, and enterprise architecture in health care and public health.

**Semester Hours Credit:** 3

**Lecture Lab Hours 2 / 4**

**Prerequisite:** None

**Text:** Health Care Information Systems: A Practical Approach for Health Care Management –

Karen A. Wager, Frances Wickham Lee, John P. Glaser ISBN-13: 978-1118173534 ISBN-10: 1118173538 Edition: 3rd

**Teaching Methods:** Lecture, Class assignments, assessments [tests], Lab exercises, and a written report.

**End of Course Outcomes:** Upon successful completion of this course the student will:

1. Describe general functions, purposes and benefits of health information systems;
2. Describe the evolution and adoption of health information systems;
3. Compare health information systems in terms of their ability to support the requirements of a health care enterprise;
4. Explain the impact of electronic health records on reporting outcomes; explain strategies to minimize major barriers to the adoption of electronic health records;
5. Explain the principles of health care data exchange and standards;
6. Review workflow design and assessment, and their relationship to patient care, productivity and data analysis;
7. Propose the hardware, software, operating system and networking considerations necessary for effective data storage and use in health care organizations;
8. Understand tools and techniques used for collecting, storing, securing, retrieving, and reporting health care data.

**Evaluation Methods:**

1. Exams
2. Classroom activities
3. Online assignments as Lab Exercises.

**Student Learning Outcomes: Lecture**

The student will demonstrate *communicative skills* in being able to use knowledge of computer systems, health information programs, and documentation requirements for health care to present a case for the adoption of an electronic medical record by a health care provider or facility.

**Assessment:** The assessment will be conducted:

The students completing a report which reflects knowledge of computer systems, health information programs, and documentation requirements for health care to present a case for the adoption of an electronic medical record in a 10 minute presentation to the class of the basic argument of the paper completed for step 1.

**Target:**

At least 90% of the student will score 75% or higher on the paper and presentation.

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**Student Learning Outcomes:** Lab Exercises

The student will demonstrate knowledge of the basic terms used in information technology as it relates both to the hardware and software used in health information systems. This knowledge is used to support the communicative and teamwork skills in working with information technology situations.

**Assessment:**

The assessment will be done by a test over the meaning and use of basic health information technology vocabulary.

**Target:**

At least 90% of the students score at a 75% or greater on the given test [assessment] at each of the four sites or of the Internet class {if the class is held using the Internet}.

**Detailed Syllabus**

Week	Lecture- Topic	Assignments / Assessments / Module Exams
1.	Health Care Information	Each Week Lecture: Read chapter; Each Chapter has short essay type questions whose answer requires a summary of what is reported in the text of the chapter and discussion topics or words to discuss.
2.	Health Care Data Quality	There are 4 Module tests each covering 4 chapters. The final module test covers the entire semester and is the Final for the course.
3.	Health Care Information Regulations, Laws and Standards	
4.	History & Evolution of Health Care Systems	Each Week Lab Exercises Each Chapter has a quiz over basic facts in the chapter and a web based research question.
5.	Clinical Information Systems	
6.	Federal Law and Information Systems	
7.	Acquiring a Health Care System	
8.	System Implementation and Support	
9.	The Technology behind Health Care Information Systems	
10.	Health Care Information Standards	
11.	Security	

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12.	Organizing Information tech Services	
13.	IT Strategies	
14.	IT Governance	
15.	Management and value of Health Care Information	
16.	Finals Week	

**ADA Statement:** No qualified individual with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of the College District, or be subjected to discrimination by the College District. Nor shall the College District exclude or otherwise deny equal services, programs, or activities to an individual because of the known disability of an individual with whom the individual is known to have a relationship or association. 42 U.S.C. 12132; 28 CFR 35.130(g).

See at: [GL \(Legal\)](#)

**Special Needs Services:** Students with special needs, including physical and learning disabilities, who wish to request accommodations in this course should contact the Student Development Office as soon as possible to make arrangements; this should occur no later than the second week of class or as soon as the student has the documentation on the disability and requested accommodation per a certified medical or psychological professional. In accordance with federal law, a student requesting accommodations must provide documentation of disability to the Student Development Advisor.

For more information, contact: in Alice at [sdalice@coastalbend.edu](mailto:sdalice@coastalbend.edu); Beeville at [sdbeeville@coastalbend.edu](mailto:sdbeeville@coastalbend.edu); Kingsville at [sdkingsville@coastalbend.edu](mailto:sdkingsville@coastalbend.edu); and Pleasanton at [sdpleasanton@coastalbend.edu](mailto:sdpleasanton@coastalbend.edu).

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See at: [FLB \(Local\)](#) and [FM \(Local\)](#).

See the [Student Handbook](#) for further explanation of Scholastic Dishonesty.

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**NOTE:** The College website ([www.coastalbend.edu](http://www.coastalbend.edu)) serves as the main source with the most current version of the Coastal Bend College Board Policies and the Coastal Bend College Catalog.

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