

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: HCM 202

Credit Hours: 3-3-0

Course Title: Healthcare Informatics

Course Prerequisites: None

Textbook: Shanholtzer, Health Information Management and Technology, 1st ed. McGraw-Hill.
ISBN: 9781260607093

Course Description: This course provides an overview of ways technology is used to organize information in various healthcare settings. Students will explore the benefits of technology related to acquisition, maintenance, retrieval and application of biomedical knowledge and information to improve patient care, medical information, and health science research. Students will review the role of informatics applications for administrative functions, telemedicine, public health, radiology, surgery, pharmacy, dentistry and rehabilitative therapies. Issues regarding security and privacy of information in the electronic format will be discussed.

Learning Outcomes: By the completion of this course, students will have:

- A. Discussed basic information technology concepts appropriate for healthcare professions;
- B. Described current methods for managing and organizing medical information; and
- C. Described privacy and security issues related to healthcare systems.

To achieve the learning outcomes, the student will

1. Discuss information technology, computers/computer literacy and their significance in today's healthcare system;
2. Define healthcare informatics;
3. Compare electronic medical records (EMR) and electronic health records (EHR);
4. Discuss national/regional interoperability;
5. Define clinical, special-purpose, and administrative applications of computer technology in health care and its delivery;
6. Define telemedicine and discuss the legal, licensing and privacy issues involved in telemedicine;
7. Define public health and public health informatics and discuss the role of computers in determining public health trends and statistics;
8. Discuss the ways digital technology has transformed the field of radiology imaging;
9. List some of the uses of computers in surgery and describe the role of computers in planning and performing surgical procedures;
10. Explain the uses of computer technology in pharmacies and telemedicine;
11. Describe the uses computer technology in dentistry and teledentistry;
12. Define patient simulators and discuss the of simulation programs to teach surgical procedures, dentistry and other skills;
13. Explain a computerized decision support system;
14. Describe the contributions of information technology to the design of medical devices and medication delivery systems; and

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15. Define privacy and security; discuss potential issues/threats to privacy and security related to information technology.

Course Requirements:

- To pass the course, student must achieve a course average of 70% or above.
- Students must have access to a computer (not mobile device) and the Internet to complete the assignments. Computer, software, and the Internet are available to students on campus during scheduled computer lab times and in the Learning Commons located in the BPCC Library.
- Students are required to use BPCC's LMS and are encouraged to use the BPCC Library to research topics and employment opportunities.

Course Grading Scale:

- A = 90 - 100
- B = 80 - 89
- C = 70 - 79
- D = 60 - 69
- F = 0 - 59

Attendance Policy:

Each student is expected to attend class regularly; excessive unexcused absences constitute grounds for suspension. Refer to the student handbook for [Attendance Policy](#).

Course Fees: This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, software licenses, certification exams and/or clinical fees.

Nondiscrimination Statement: Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

Coordinator for SECTION 504 AND ADA

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Equity/Compliance Coordinator

Teri Bashara, Director of Human Resources

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Bossier City, LA 71111

Phone: 318-678-6056

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