Course Prefix and Number: HCM 202  
Course Title: Healthcare Informatics  
Credit Hours: 3  

Course Prerequisites: None

Textbook: Information Technology for the Health Professions. Please refer to the BPCC bookstore for the edition required during your semester of enrollment.

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

Course Requirements:  
A. Class attendance (see the student handbook for attendance policies)  
B. Students are required to use our LMS and are encouraged to use the BPCC Library to research healthcare management topics and employment opportunities.

Course Grading:  
A. Letter grades will be assigned based on a ten point grading scale (90-100 = ‘A’, 80-89=’B’, 70-79=’C’, 60-69=’D’, 0-59=’F’).  
B. Although Instructors may give other assignments, they will administer at least four tests, two writings, and a comprehensive final examination.
Attendance Policy: The college attendance policy is available at http://www.bpcc.edu/catalog/current/academicpolicies.html

Course Fees: (none)

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.

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