



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

LAST REVIEW: 2008-2009
(i.e. 2003-2004)

NEXT REVIEW: 2013-2014
(i.e. 2008-2009)

STATUS: A
(A, I, D)

COURSE TITLE: Health Information Systems

COMMON COURSE NUMBER: HIM 2652

CREDIT HOURS: 3

CONTACT HOUR BREAKDOWN
(per 16 week term)

CLOCK HOURS:
(Voc. Course ONLY)

Lecture: **48** Lab:

Clinic: Other:

PREREQUISITE(S): CGS 1540C, HIM 1800

COREQUISITE(S):

PRE/COREQUISITE(S):

COURSE DESCRIPTION *(750 characters, maximum):*

This course is a (3) credit introduction to information technology related to healthcare and the automated tools and techniques for collecting, storing, and retrieving data. Topics include: system analysis, design, and security; file structure, networking, telecommunications, document imaging, medical informatics, the electronic health record, and implementation issues. Activities include HIM computer applications. Upon completion, students should be able to assist in the design, implementation, evaluation, and maintenance of automated information systems in healthcare

UNIT TITLES

1. Infrastructure, Technology and applications
2. Telemedicine and Clinical Information Technology
3. Information System Life Cycle and Project Management
4. Class MPI Database Project



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ASSESSMENT:

Please provide a brief description (250 characters maximum) that details how students will be assessed on the course outcomes.

1. Announced and unannounced quizzes and Unit examinations
2. Cumulative/comprehensive final examination
3. Assessment of reading and online assignments via submission of homework projects
4. Participation in Discussion Forums on the E-learning site
5. Completion of projects – individual or group as assigned

**** Complete the following only if course is seeking general education status ****

GENERAL EDUCATION Competencies and Skills*:

Please highlight in green font all Competencies/Skills from the list below that apply to this course. In the box to the right of the Competency/Skill, enter all specific learning outcome numbers (i.e. 1.1, 2.7, 5.12) that apply.

1. Read with critical comprehension	
2. Speak and listen effectively	
3. Speak and listen effectively	
4. Think creatively, logically, critically, and reflectively (analyze, synthesize, apply, and evaluate)	
5. Demonstrate and apply literacy in its various forms: (highlight in green ALL that apply) (1. technological, 2. informational, 3. mathematical, 4. scientific, 5. cultural, 6. historical, 7. aesthetic and/or 8. environmental)	
6. Apply problem solving techniques to real-world experiences	
7. Apply methods of scientific inquiry	
8. Demonstrate an understanding of the physical and biological environment and how it is impacted by human beings	
9. Demonstrate an understanding of and appreciation for human diversities and commonalities	
10. Collaborate with others to achieve common goals.	
11. Research, synthesize and produce original work	
12. Practice ethical behavior	
13. Demonstrate self-direction and self motivation	
14. Assume responsibility for and understand the impact of personal behaviors on self and society	
15. Contribute to the welfare of the community	



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UNITS

Unit 1 Infrastructure, Technology and Applications

General Outcome:

1.0 Student will have a basic but functional knowledge of hospital information system and how it impacts health information management.

Specific Instructional Objectives:

Upon successful completion of this unit, the student will be able to:

1. Define key terms
2. Explain fundamental concepts of database models
3. Understand the functionality of structured query language
4. Explain how a wireless network communicates with devices on the Network
5. Characterize the differences between two-tier and three tier architecture
6. Identify network protocols used on the internet
7. Explain Decision Support Systems for: Administrative and Clinical
8. Discuss computer security requirements



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Unit 2 Telemedicine and Clinical Information Technology

General Outcome:

2.0 The student will have an understanding of cutting edge technology in the health informatics.

Specific Instructional Objectives:

Upon successful completion of this unit, the student will be able to:

1. Describe store and forward technology
2. List various subspecialties in telemedicine
3. Describe the uses of telemedicine
4. Discuss the changing roles in tele-healthcare
5. Discuss IT uses in Radiology
6. Discuss IT uses in Surgery
7. Discuss IT uses in Pharmacy
8. Define key terms



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Unit 3 Information Systems Life Cycle and Project Management

General Outcome:

3.0 The student will understand the life cycle of an information system and be able to explain the role of a Project Manager.

Specific Instructional Objectives:

Upon successful completion of this unit, the student will be able to:

1. Define key terms
2. Discuss and explain various life cycles
3. Discuss life cycle stages
4. Identify the three stages of the information system
5. Describe various techniques that are used to evaluate information systems, including benefits realization, break-even analysis, payback period, and discounted payback periods
6. Describe the activities that take place during system implementation
7. Explain the purpose of an RFP
8. Describe the usual process that follows the purchase of a vendor system



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Unit 4 Class MPI Database Project

General Outcome:

4.0 The student will learn to work with a team to design, implement, query, and analyze data in an Access database.

Specific Instructional Objectives:

Upon successful completion of this unit, the student will be able to:

1. Understand how database function
2. Understand structure of a database
3. Apply your knowledge of Excel and/or Access to create a simple MPI
4. Generate reports
5. Compare and contrast data derived from MPI & Utilization Reports
6. Present information in a logical and intelligent manner
7. Prepare a written presentation