



# BROWARD COMMUNITY COLLEGE COURSE OUTLINE

**LAST REVIEW:** 2006-2007

**NEXT REVIEW:** 2011-2012

**STATUS:** A

**COURSE TITLE:** Electronic Medical Record and Technology

**COMMON COURSE NUMBER:** HIM 2112

**CREDIT HOURS:** 2

**CONTACT HOUR BREAKDOWN**  
*(per 16 week term)*

**CLOCK HOURS:0**  
*(Voc. Course ONLY)*

Lecture: 32

Lab: 0

Clinic: 0

Other: 0

**PREREQUISITE(S):** HIM 1800

**COREQUISITE(S):** HIM 2012, HIM 2652

**PRE/COREQUISITE(S):**

**COURSE DESCRIPTION:** *(750 characters, maximum)*

This course will review the history of the electronic health record and current trends in healthcare information applications such as clinical information systems, administrative information systems, and management support systems. Students will explore the transition from a paper based health record to an electronic health record and associated issues.

## UNIT TITLES

1. Introduction to Electronic Health Records
2. Challenges to EHR Adoption
3. Roles in EHR Design and Implementation
4. EHR Migration Path Impact on Quality
5. Strategic EHR Planning
6. Healthcare Process Assessment
7. Functional Needs Assessment
8. Data Infrastructure Assessment
9. Technology Infrastructure Assessment
10. EHR Functional Requirements Specification
11. Return on Investment
12. EHR Selection and Contract Negotiation
13. HER System Implementation and Ongoing Monitoring



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**Common Course Number: HIM 2112**

## **UNITS**

### **Unit 1: Introduction to Electronic Health Records**

#### **General Outcome:**

1.0 The student shall understand what is an electronic health record and how they are used in different healthcare settings.

#### **Specific Measurable Learning Outcomes:**

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

- 1.1 Describe the difference between an EHR and PHR.
- 1.2 Discuss and understand EHR terminology
- 1.3 Describe the difference between implementation and adoption of a EHR.
- 1.4 Understand the different types of EHR – full electronic system versus hybrid system



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## **Unit 2: Challenges to EHR Adoption**

### **General Outcome:**

2.0 The student shall understand challenges to EHR Adoption

### **Specific Measurable Learning Outcomes:**

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

- 2.1 Understand the legal aspects of EHR
- 2.2 Understand the legal implications of E-signature
- 2.3 Understand what an E-signature is
- 2.4 Understand and able to discuss impact of clinician involvement in the EHR
- 2.5 Able to describe a CPOE and e-Rx system



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**Unit 3: Roles in EHR Design and Implementation**

**General Outcome:**

3.0 The student shall have an understanding of the key components needed to begin the process of design and implementation for EHR

**Specific Measurable Learning Outcomes:**

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

3.1 Describe the roles needed to design and implement and EHR system in different healthcare setting

3.1.1 Inpatient verses clinic

3.1.2 Physician office

3.2 Outline EHR Organizational Structure

3.3 Describe the necessary components Project Management Plan

3.4 Describe the key personnel needed for a Steering Committee

3.5 Discuss how to overcome resistance to change



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**Unit 4: EHR Migration Path Impact on Quality**

**General Outcome:**

4.0 The student shall understand the concepts related to EHR Data Migration and the impact to the healthcare setting.

**Specific Measurable Learning Outcomes:**

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

- 4.1 Understand economic benefit to data migration
- 4.2 Understand the term and impact of Outcome Modeling



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**Unit 5: Strategic EHR Planning**

**General Outcome:**

5.0 The student shall understand how HIM and IT are critical components of strategic planning.

**Specific Measurable Learning Outcomes:**

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

- 5.1 Understand what a strategic plan is
- 5.2 Understand and contrast the difference between EHR in acute versus long term care
- 5.3 Describe what a Migration Path Course Project is



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**Unit 6: Healthcare Process Assessment**

**General Outcome:**

6.0 The student shall have a basic understanding of Process Redesign.

**Specific Measurable Learning Outcomes:**

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

- 6.1 Identify healthcare system processes for redesign
- 6.2 Discuss impact of automating a manual process
- 6.3 Discuss Team Building and Process Team



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**Unit 7: Functional Needs Assessment**

**General Outcome:**

7.0 The student shall understand what a core functionality is and be able to identify functionality owner.

**Specific Measurable Learning Outcomes:**

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

- 7.1 Understand what are core functionalities and how to asses functional need
- 7.2 Understand HL7 EHR DC1 Functions and have a basic understanding of function rating
- 7.3 Discuss EHR functions to benefits



**Common Course Number: HIM 2110**

**Unit 8: Data Infrastructure Assessment**

**General Outcome:**

8.0 The student shall be able to describe what is data infrastructure.

**Specific Measurable Learning Outcomes:**

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

- 8.1 Discuss structured verses unstructured data.
- 8.2 Link AHIMA DQMM to HL7 HER DSTU
- 8.3 Discuss what is a data owner
- 8.4 Understand what a Data Directory is and describe it's function



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**Unit 9: Technology Infrastructure Assessment**

**General Outcome:**

9.0 The student shall have a basic understanding of hardware needs for an EHR implementation

**Specific Measurable Learning Outcomes:**

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

9.1 Describe different types of hardware used with EHR systems

9.2 Describe and compare integration and interfacing



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**Unit 10: EHR Functional Requirements Specification**

**General Outcome:**

10.0 The student shall be able to assist in identifying functional specification for an EHR System

**Specific Measurable Learning Outcomes:**

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

- 10.1 Identify 10 key functional specification critical for an EHR
- 10.2 Locate EHR Vendors and review specifications
- 10.3 Identify sources of Clinical Decision Support
- 10.4 Understand the requirements for Privacy and Security



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**Unit 11: Return on Investment**

**General Outcome:**

11.0 The student shall understand what the return on investment is for an EHR System

**Specific Measurable Learning Outcomes:**

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

11.1 Understand what an Impact Analysis is and how it's used

11.2 Gain an understanding of the financial impact to facilities implementing EHR systems.



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**Unit 12: EHR Selection and Contract Negotiation**

**General Outcome:**

12.0 The student shall have a basic understanding of vendor selection process.

**Specific Measurable Learning Outcomes:**

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

- 12.1 Compare vendor functionality
- 12.2 Understand how to create a vendor selection criteria for an RFP
- 12.3 Discuss the merits of purchasing a system verses ASP



**Common Course Number: HIM 2112**

**Unit 13: EHR System Implementation and Ongoing Monitoring**

**General Outcome:**

13.0 The student shall understand the ongoing process post implementation of EHR System

**Specific Measurable Learning Outcomes:**

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

13.1 Discuss the importance of EHR Project Management to timeline

13.2 Discuss the impact of ongoing monitoring