

Washtenaw Community College Comprehensive Report

CNT 237 Health Information Networking Proposed Start Semester: Spring/Summer 2011

Course Cover

Division: Business and Computer Technologies
Department: Computer Instruction
Discipline: Computer Networking Technology
Course Number: 237
Org Number: 13400
Full Course Title: Health Information Networking
Transcript Title: Health Information Networking
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission:
Change Information:
Rationale: Course Conditionally Approved. Seeking full approval.
Proposed Start Semester: Spring/Summer 2011

Course Description: The Cisco® Health Information Networking course is a technology-focused curriculum primarily designed for Cisco Networking Academy® students. Students will be introduced to Electronic Health Care Records regulations and terminology. Students will be expected to use their Cisco CCNA training to design and implement networks in health care settings. Students with industry experience using Cisco technologies may contact one of the instructors to discuss possible registration permission.

Course Credit Hours

Variable hours: No
Credits: 4
Lecture Hours: Instructor: 60 Student: 60
Lab: Instructor: 0 Student: 0
Clinical: Instructor: 0 Student: 0
Other: Instructor: 0 Student: 0
Total Contact Hours: Instructor: 60 Student: 60
Repeatable for Credit: NO
Grading Methods: Letter Grades
 Audit
Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

Requisites

Prerequisite
 CNT 236 minimum grade "C"
Prerequisite
 Academic Reading and Writing Levels of 6

General Education

Request Course Transfer

Proposed For:
 Eastern Michigan University

By [signature] logged 9/8/10 sjv

Student Learning Outcomes

1. Identify important electronic health record terms.

Assessment 1

Assessment Tool: Cisco Systems online multiple choice final exam.

Assessment Date: Fall 2013

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: All students

How the assessment will be scored: Automatically scored by Cisco Systems.

Standard of success to be used for this assessment: 70 percent of the students will score at least 70 percent on the assessment related multiple-choice questions on the Cisco online final exam.

Who will score and analyze the data: Departmental faculty will analyze the data.

2. Design, configure, and troubleshoot networks in a healthcare environment

Assessment 1

Assessment Tool: Cisco Systems Skills-Based Assessment (SBA).

Assessment Date: Fall 2013

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: All students

How the assessment will be scored: Scored by the instructor teaching the class.

Standard of success to be used for this assessment: 70 percent of the students will score at least 70 percent on the SBA.

Who will score and analyze the data: Departmental faculty will analyze the data.

Course Objectives

1. Identify the protocols, safety procedures, and privacy considerations when working in a health-care environment.

Methods of Evaluation

Exams/Tests

Matched Outcomes

1. Identify important electronic health record terms.
2. Design, configure, and troubleshoot networks in a healthcare environment

2. Explain how the use of Health IT applications affects network design.

Methods of Evaluation

Discussion

Matched Outcomes

1. Identify important electronic health record terms.
2. Design, configure, and troubleshoot networks in a healthcare environment

3. Describe the purpose, function and key components of an Electronic Health Records (EHR) system.

Methods of Evaluation

Exams/Tests

Matched Outcomes

1. Identify important electronic health record terms.
2. Design, configure, and troubleshoot networks in a healthcare environment

4. Identify the benefits and requirements for supporting nationwide HIT interoperability and the Nationwide Health Information Network.

Methods of Evaluation

Exams/Tests

Matched Outcomes

1. Identify important electronic health record terms.

5. Identify the requirements for implementing an EHR system.

Methods of Evaluation

Exams/Tests

Matched Outcomes

1. Identify important electronic health record terms.

6. Describe the workflow of a medical practice and how that workflow must be adjusted for implementation of Electronic Medical Records.

Methods of Evaluation

Exams/Tests

Matched Outcomes

1. Identify important electronic health record terms.

7. Describe the benefits of a hierarchical design and the basic functions of the core, distribution and access layers.

Methods of Evaluation

Exams/Tests

Matched Outcomes

1. Identify important electronic health record terms.

8. Implement security requirements for medical data at the access layer.

Methods of Evaluation

Individual or Group Performance, Project or Presentation
Lab Activity, Report or Test

Matched Outcomes

1. Identify important electronic health record terms.
2. Design, configure, and troubleshoot networks in a healthcare environment

9. Describe security and design considerations when implementing or connecting to a data center

Methods of Evaluation

Exams/Tests

Matched Outcomes

1. Identify important electronic health record terms.

10. Implement wireless security and design considerations into the medical group network.

Methods of Evaluation

Individual or Group Performance, Project or Presentation

Lab Activity, Report or Test

Matched Outcomes

1. Identify important electronic health record terms.
2. Design, configure, and troubleshoot networks in a healthcare environment

11. Prototype a network design prior to implementation.

Methods of Evaluation

- Exams/Tests
Individual or Group Performance, Project or Presentation
Lab Activity, Report or Test

Matched Outcomes

2. Design, configure, and troubleshoot networks in a healthcare environment

12. Integrate remote access and WAN services.

Methods of Evaluation

- Exams/Tests
Individual or Group Performance, Project or Presentation
Lab Activity, Report or Test

Matched Outcomes

2. Design, configure, and troubleshoot networks in a healthcare environment

13. Implement WAN services for an EHR system

Methods of Evaluation

- Exams/Tests
Individual or Group Performance, Project or Presentation
Lab Activity, Report or Test

Matched Outcomes

2. Design, configure, and troubleshoot networks in a healthcare environment

14. Secure the network edge for an EHR system

Methods of Evaluation

- Exams/Tests
Individual or Group Performance, Project or Presentation
Lab Activity, Report or Test

Matched Outcomes

2. Design, configure, and troubleshoot networks in a healthcare environment

15. Describe the levels of support and processes for troubleshooting a medical group network.

Methods of Evaluation

- Discussion
Exams/Tests

Matched Outcomes

1. Identify important electronic health record terms.

16. Troubleshoot, remotely monitor and manage a medical group network.

Methods of Evaluation

Exams/Tests
 Individual or Group Performance, Project or Presentation
 Lab Activity, Report or Test

Matched Outcomes

2. Design, configure, and troubleshoot networks in a healthcare environment

New Resources for Course

Course Textbooks/Resources

Textbooks
 Manuals
 Periodicals
 Software
 Other

Equipment/Facilities

Level III classroom
 Computer workstations/lab

Reviewer	Action	Date
Originator:	<i>Originator</i>	
Department Chair/Area Director: <i>Joy Garrett</i>	<i>Recommend Approval</i>	<i>Sep 24, 2010</i>
Dean: <i>Joy Garrett</i>	<i>Recommend Approval</i>	<i>Sep 24, 2010</i>
Vice President for Instruction: <i>Stuart Blacklaw</i>	<i>Approve</i>	<i>Nov 17, 2010</i>
President:		