Washtenaw Community College Comprehensive Report

CSS 212 Computer Security V
Proposed start term: Fall 2010

Course Cover

Division: Business and Computer Technologies
Department: Computer Instruction
Discipline: Computer Systems Security
Course Number: 212
Org Number: 13400
Full Course Title: Computer Security V
Transcript Title: Computer Security V
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission: Course Change
Change Information:
Course description
Outcomes/Assessment
Objectives/Evaluation
Rationale: Course is no longer part of the Cisco Academy program
Proposed Start: Fall 2010

Course Description: This course teaches students to design and implement secure solutions for wireless networks. The student is first introduced to the fundamentals of wireless technology, including principles of radio transmission. Other topics encompass IEEE standards, implementing wireless topologies, wired equivalant privacy (WEP) and the extensible authentication protocol (EAP) framework. The title of this course was previously Fundamentals of Secure Wireless Local Area Networks.

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: Student:
Repeatable for Credit: NO
Grading Methods: Letter Grades
Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

Requisites

Prerequisite
Academic Reading and Writing Levels of 6; CNT 211 and CSS 205, minimum grade "C"

General Education

Request Course Transfer

Proposed For:

JV logged 3/9/10 JV

Student Learning Outcomes

1. Recognize facets of radio frequency transmission.
   Assessment 1
   Assessment Tool: Department-developed final concepts and skills exam.
   Assessment Date: Fall 2012
   Assessment Cycle: Every Three Years
   Course section(s)/other population: Minimum of two sections over the three year period.
   Number students to be assessed: All students in selected sections.
   How the assessment will be scored: Concepts and skills exams are scored and evaluated with department-developed rubric.
   Standard of success to be used for this assessment: At least 80% of students must score 75% or better.
   Who will score and analyze the data: Department Faculty and external sources (if available).

2. Recognize specific technological implementations.
   Assessment 1
   Assessment Tool: Department-developed final concepts and skills exam.
   Assessment Date: Fall 2012
   Assessment Cycle: Every Three Years
   Course section(s)/other population: Minimum of two sections over the three year period.
   Number students to be assessed: All students in selected sections.
   How the assessment will be scored: Concepts and skills exams are scored and evaluated with department-developed rubric.
   Standard of success to be used for this assessment: At least 80% of students must score 75% or better.
   Who will score and analyze the data: Department Faculty and external sources (if available).

3. Implement various secure wireless topologies.
   Assessment 1
   Assessment Tool: Department-developed final concepts and skills exam.
   Assessment Date: Fall 2012
   Assessment Cycle: Every Three Years
   Course section(s)/other population: Minimum of two sections over the three year period.
   Number students to be assessed: All students in selected sections.
   How the assessment will be scored: Concepts and skills exams are scored and evaluated with department-developed rubric.
   Standard of success to be used for this assessment: At least 80% of students must score 75% or better.
   Who will score and analyze the data: Department Faculty and external sources (if available).

Course Objectives

1. Identify the components of a wireless local area network.
   Methods of Evaluation
   Exams/Tests
   Exams/Tests
   Matched Outcomes
   1. Recognize facets of radio frequency transmission.

2. Identify and describe the different types of transmission methods.
   Methods of Evaluation
   Exams/Tests
   Exams/Tests
   Matched Outcomes

1. Recognize facets of radio frequency transmission.

3. Identify the standards pertinent to WLANs.
   Methods of Evaluation
   Exams/Tests
   Exams/Tests
   Matched Outcomes
   2. Recognize specific technological implementations.

4. Identify security threats and weaknesses in security methods.
   Methods of Evaluation
   Exams/Tests
   Exams/Tests
   Matched Outcomes
   2. Recognize specific technological implementations.

5. Configure the different topologies that may be implemented for WLANs.
   Methods of Evaluation
   Activity or Exercise
   Discussion
   Lab Activity, Report or Test
   Matched Outcomes

6. Configure secure methods for transmission.
   Methods of Evaluation
   Lab Activity, Report or Test
   Matched Outcomes

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software
Other

Equipment/Facilities