

Washtenaw Community College Comprehensive Report

CSS 295 Cybersecurity Industry Certification Preparation Effective Term: Fall 2021

Course Cover

Division: Business and Computer Technologies

Department: Computer Science & Information Technology

Discipline: Computer Systems Security

Course Number: 295

Org Number: 13400

Full Course Title: Cybersecurity Industry Certification Preparation

Transcript Title: Cyber Cert Prep

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Time Schedule , Web Page

Reason for Submission: New Course

Change Information:

Rationale: Certification preparation goes beyond the scope of a standard course. This one credit hour capstone course will prepare students for the industry certification related to the WCC Principles of Cybersecurity certificate.

Proposed Start Semester: Fall 2021

Course Description: In this course, students will apply their knowledge of cybersecurity principles to application and preparation for the CompTia Security+ certification exam.

Course Credit Hours

Variable hours: No

Credits: 1

Lecture Hours: Instructor: 15 Student: 15

Lab: Instructor: 0 Student: 0

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 15 Student: 15

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

College-Level Math

Requisites

Prerequisite

CSS 200 minimum grade "C"

and

Prerequisite

CSS 205 minimum grade "C"

and

Prerequisite

CSS 210 minimum grade "C"; may enroll concurrently

General Education**Request Course Transfer**

Proposed For:

Student Learning Outcomes

1. Apply knowledge and skills to install, configure and manage identity and access services when implementing and administering a secure network architecture.

Assessment 1

Assessment Tool: CompTia Security+ certification preparation exam

Assessment Date: Winter 2025

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: Answer key

Standard of success to be used for this assessment: 70% of students will score 70% or higher.

Who will score and analyze the data: The exam will be automatically graded by the Test Preparation Tool. The results will be analyzed by full-time faculty.

2. Demonstrate test-takings strategies that will prepare the student for the CompTia Security+ certification exam.

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How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 70% of students will score 70% or higher.

Who will score and analyze the data: The exam will be automatically graded by the Test Preparation Tool. The results will be analyzed by full-time faculty.

Course Objectives

1. Identify and troubleshoot common cybersecurity threats, attacks and vulnerabilities.
2. Utilize cryptography to ensure confidentiality and integrity in networked systems.
3. Implement and administer a secure network architecture to ensure confidentiality, integrity and availability.
4. Analyze and interpret output from electronic devices and applications in a network to ensure security.
5. Install, configure and manage identity and access services to ensure confidentiality and integrity.
6. Evaluate the cybersecurity posture of an organization to ensure business continuity and reduce risk.
7. Recognize test-taking strategies used in the CompTia Security+ certification exam.
8. Apply test-taking strategies used in the CompTia Security+ certification exam.

New Resources for Course**Course Textbooks/Resources**

Textbooks

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom

Computer workstations/lab

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Cyndi Millns</i>	<i>Faculty Preparer</i>	<i>Jan 05, 2021</i>
Department Chair/Area Director: <i>Cyndi Millns</i>	<i>Recommend Approval</i>	<i>Jan 06, 2021</i>
Dean: <i>Eva Samulski</i>	<i>Recommend Approval</i>	<i>Jan 07, 2021</i>
Curriculum Committee Chair: <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Mar 03, 2021</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Mar 04, 2021</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Mar 05, 2021</i>