

Washtenaw Community College Comprehensive Report

CSS 296 Cybersecurity Operations Certification Preparation Effective Term: Fall 2021

Course Cover

Division: Business and Computer Technologies

Department: Computer Science & Information Technology

Discipline: Computer Systems Security

Course Number: 296

Org Number: 13400

Full Course Title: Cybersecurity Operations Certification Preparation

Transcript Title: Adv. 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 Cybersecurity Operations certificate.

Proposed Start Semester: Fall 2021

Course Description: In this course, students will apply their knowledge of advanced cybersecurity concepts to application and preparation for the Cisco CCNA Cyber Operations Associate Examination.

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 225 minimum grade "C"

and

Prerequisite

CNT 290 minimum grade "C"; may enroll concurrently

and

Prerequisite

CPS 141 minimum grade "C"

General Education**Request Course Transfer**

Proposed For:

Student Learning Outcomes

1. Apply knowledge and skills required to monitor and analyze network traffic, host-based attacks and network intrusions.

Assessment 1

Assessment Tool: Cisco CCNA Cyber Operations Associate Examination preparation exam.

Assessment Date: Winter 2025

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 70% of the 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-taking strategies that will prepare the student for the Cisco CCNA Cyber Operations Associate Examination.

Assessment 1

Assessment Tool: Cisco CCNA Cyber Operations Associate Examination preparation exam.

Assessment Date: Winter 2025

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 70% of the 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. Explain cybersecurity operations concepts and protocols.
2. Identify the technologies, tools, regulations and frameworks in a cybersecurity operations network.
3. Monitor and analyze network traffic.
4. Analyze host-based attacks.
5. Analyze network intrusions.
6. Apply knowledge and skills to implement secure policies and procedures before, during, and after an incident has occurred.
7. Recognize test-taking strategies used in the Cisco CCNA Cyber Operations Associate Examination.
8. Apply test-taking strategies used in the Cisco CCNA Cyber Operations Associate Examination.

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>