# Washtenaw Community College Comprehensive Report

## CNT 295 CNT Cisco Certification Preparation
## Effective Term: Fall 2021

### Course Cover

**Division:** Business and Computer Technologies
**Department:** Computer Science & Information Technology
**Discipline:** Computer Networking Technology
**Course Number:** 295
**Org Number:** 13400
**Full Course Title:** CNT Cisco Certification Preparation
**Transcript Title:** CNT Cisco 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 Computer Networking Academy I certificate.
**Proposed Start Semester:** Winter 2025
**Course Description:** In this course, students will apply their knowledge of computer networking to application and preparation for the CCNA Routing and Switching 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**
CNT 206 minimum grade "C"
and
**Prerequisite**
CNT 216 minimum grade "C"
and

**Prerequisite**
CNT 226 minimum grade "C"; may enroll concurrently

## General Education

## Request Course Transfer
**Proposed For:**

## Student Learning Outcomes

1. Apply knowledge and skills related to network fundamentals, network access, IP connectivity, IP services, security fundamentals, and automation and programmability.
   **Assessment 1**
   Assessment Tool: CCNA Routing and Switching 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 CCNA Routing and Switching certification exam.
   **Assessment 1**
   Assessment Tool: CCNA Routing and Switching 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.

## Course Objectives

1. Describe network fundamentals required for network implementation.

2. Configure and maintain devices for network access.

3. Configure and implement routing to allow for connectivity between remote networks.

4. Configure and verify network IP services.

5. Implement secure network features and protocols.

6. Recognize the advantages of automation and programmability in both traditional and controller-based networks.

7. Recognize test-taking strategies used in the CCNA Routing and Switching certification exam.

8. Apply test-taking strategies used in the CCNA Routing and Switching certification exam.

## New Resources for Course

## Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software

## Equipment/Facilities

Level III classroom
Computer workstations/lab

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