Tech Prep
In
Computer Science

A consortium of High School, Community College and University Departments

This document contains student competency requirements for the specialized area of:

**CCNA I.**
**CS 265**
**5 Credits**

To receive college credit a student must complete all competencies with at least 80% proficiency. It is requested the high school instructor initial each competency area that is completed by the student. By initialing these competencies, the instructor is verifying the student has completed the required work at a level that merits college credit.

Revision date: January 2008

When articulating this course for Tech Prep credit it is requested the high school instructor coordinate with the WWCC Computer Sciences Department Chair / CISCO Coordinator.
# CCNA I

## COMPETENCY AREAS:

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Student Name: ________________________________

High School: ________________________________

Student WWCC Identification Number: _________________ / SS #: ________________

__________________________

(high school instructor signature)

High school signature verifying successful completion of all competencies with a minimum of 80% proficiency and awarding of a local high school grade of A or B.

Date: __________________
CCNA I / CS 265

Rating Scale for Performance Tasks:

This course provides an in-depth description of the IP network-addressing scheme, including sub-netting, and the design of IP addressing schemes for enterprise wide networks.

For individual competencies the following grading criteria will be observed.

4 - Highly Skilled/Proficient
   Student can complete the competency accurately.
   Student can direct others to do the competency.
   Student needs little supervision.
   Written tests, 90%

3 – Skilled/Performs with Minimum Supervision
   Student can perform all parts of the competency.
   Student needs only completed work spot-checked.
   A student meets speed and accuracy requirements (if any).
   Student needs minimum supervision.
   Written tests, 80%

2 - Limited Skills/Performs with Close Supervision
   Student can perform most parts of the competency.
   Student needs help with only the most difficult parts.
   Student needs close supervision.
   Written tests, 70%

1 – Exposure/Introductory
   Student can do simple basics of this competency with very close supervision.

0 - No exposure/Not Taught
   Student has had no exposure to this competency
CCNA I / CS 265

UNIT 1: Internet Protocol.

1.1 The student shall demonstrate knowledge of Internet Protocol addressing scheme.

1.2 The student shall demonstrate knowledge of the sub-netting concept.

1.3 The student shall demonstrate knowledge of and the ability to calculate the Internet Protocol addressing schemes for different network configurations.

1.4 The student shall demonstrate knowledge of Address Resolution Protocol (ARP) and the ARP cache.

UNIT 2: Routing

2.1 Student must demonstrate knowledge of Routing and its relationship to the OSI model.

UNIT 3: Network Jacks

3.1 Student must demonstrate knowledge of network connections.

UNIT 4: Patch Cables.

4.1 Student must demonstrate knowledge of patch cables.

4.2 Student must construct patch cables as specified by instructor.

4.3 Student must install patch cables built by student.

4.4 Student must test patch cables built and installed by student.
UNIT 5: Cumulative Project.

5.1 Student must complete a cumulative project as specified by the instructor.

5.2 Student must document cumulative project in a concise written report. Instructors may require a verbal presentation of said report.

Required submission materials:

1) Cumulative project written report with instructor evaluative comments.
2) CISCO test certifications as appropriate
3) Signed instructor verification form

Note: The Cumulative Projects for CS 265, 266, 267 & 268 may be combined. However, for credit to be granted the submitted student documentation must contain evidence of a Cumulative Project as assigned by the instructor.