

**OAKTON COMMUNITY COLLEGE
GENERIC COURSE SYLLABUS**

I.	<u>COURSE PREFIX</u>	<u>COURSE NUMBER</u>	<u>COURSE NAME</u>	<u>CREDIT</u>	<u>LECTURE</u>	<u>LAB</u>
	CNA	140	CISCO Fundamentals of Voice & Data Cabling	3	3	2
		(Formerly CNA 105)				

II. PREREQUISITE:

None

III. COURSE (CATALOG) DESCRIPTION:

This is the same course as ELT 105 and students cannot receive credit for both CNS 140 and ELT 105. This course covers the physical aspects of voice and data network cabling and installation. It also provides an overview of the industry and its worldwide standards, types of media and cabling, physical and logical networks, as well as signal transmission. This hands-on, lab-oriented course stresses documentation, design and installation issues, laboratory safety, on-the-job safety, and working effectively in group environments. The course helps prepare students for the BICSI Registered Certified Installer, Level 1 exam.

IV. LEARNING OBJECTIVES:

Upon completion students will be able to install voice and data cabling systems consisting of copper and fiber optic media within a network enterprise.

V. ACADEMIC INTEGRITY:

Students and employees at Oakton Community College are required to demonstrate academic integrity and follow Oakton's Code of Academic Conduct. This code prohibits:

- cheating
- plagiarism (turning in work not written by you, or lacking proper citation)
- falsification and fabrication (lying or distorting the truth)
- helping others to cheat
- unauthorized changes on official documents
- pretending to be someone else or having someone else pretend to be you
- making or accepting bribes, special favors, or threats, and
- any other behavior that violates academic integrity.

There are serious consequences to violations of the academic integrity policy. Oakton's policies and procedures provide students a fair hearing if a complaint is made against you. If you are found to have violated the policy, the minimum penalty is failure on the assignment and, a disciplinary record will be established

and kept on file in the office of the Vice President for Student Affairs for a period of 3 years.

Details of the Code of Academic Conduct can be found in the Student Handbook.

VI. OUTLINE OF TOPICS:

1. Cabling and Safety
2. Networking Basics
3. Signals and Wires
4. Copper media
5. Fiber Optic Media
6. Cabling Standards
7. Structured Cabling
8. Tools of the Trade
9. Cabling Installation Process
10. Rough-in Phase
11. Trim Out Phase
12. Finish Phase
13. Customer Support Phase
14. Emerging Cabling Technologies

VII. METHODS OF INSTRUCTION:

Lecture and hands-on lab assignments

VIII. COURSE PRACTICES REQUIRED:

Completion of on-line exams
Completion of final exam
Completion of lab projects

IX. INSTRUCTIONAL MATERIALS:

On-line Curriculum: Fundamentals of Voice and Data Cabling

X. METHODS OF EVALUATING STUDENT PROGRESS:

Quizzes	30%
Labs	50%
Final Exam	20%

XI. OTHER COURSE INFORMATION:

If you have a documented learning, psychological, or physical disability you may be entitled to reasonable academic accommodations or services. To request accommodations or services, contact the ASSIST office in the Learning Center. All students are expected to fulfill essential course requirements. The College will not waive any essential skill or requirement of a course or degree program.