

**JOLIET JUNIOR COLLEGE
DEPARTMENT OF COMPUTER INFORMATION
AND OFFICE SYSTEMS**

COURSE SYLLABUS

Course Prefix and Number	CNT 104
Course Title	Wide Area Network
Curriculum	Computer Information Systems
Semester Hours	4
Lecture	4
Lab	0
Prerequisites	CNT 103 with a grade of C or better

Catalog Description

Study of Wide Area Networks. Topics include; WAN principles, WAN design, PPP, ISDN, and Frame Relay. Each subject is explored through the use of threaded case studies. Also includes an overall review in preparation for the CCNA exam. This course is the last of four that prepares students for the Cisco Certified Network Associate.

Course Objectives: See attached

Prepared by:

Reviewed by:

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4/00

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Updated 12/00

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Department Chairperson

Date

STUDENT MATERIALS

A. Textbook:

OPTIONAL

Title: WAN Technologies CCNA 4 Companion Guide

Author: Reid

Publisher: Cisco Press Prentice Hall

B. Other Required Materials

Student Evaluation (Type of Grading)

Complex router configuration; maintain a journal; online exams and an online final exam.

Week	Unit, Topic, Class Activity (Indicate approximate time allotment for each topic/unit)	Comments
1	1. WAN's	
2	2. WAN Technologies	
3	3. WAN Design	
4	4. Scaling IP addresses	
5	5. WAN Technologies	
6	6. WAN Technologies	
7	7. PPP	
8	8. PPP	
9	9. ISDN	
10	10. ISDN DDR	
11	11. Frame Relay	
12	12. Frame Relay	
13	13. Introduction to Network Administration	
14	14. PPP	
15	15. Course review	

OBJECTIVES

Upon completion of the course, the student will be able to:

1. Master Basic Content: WANs, WAN Design, PPP, ISDN, Frame Relay
2. Master Lab Skills: All CCNA exam-related skills
3. Master Documentation Skills: Maintain Engineering Journal, Electronic Portfolio.