Course Information

Course Title	CCNA 1: Introduction to Networks
Course Prefix, Num. and Title	ITCC 1414 - CCNA 1: Introduction to Networks
Division	Technology & Business
Department	Computer Science
Course Type	WECM Course
Course Catalog Description	This course covers networking architecture, structure, security, and functions; introduces the principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations to provide a foundation for the curriculum.
Pre-Requisites	None
Co-Requisites	None

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours: Lab/Other Hours	4:3:3
Equated Pay Hours	4.5
Lab/Other Hours Breakdown: Lab Hours	3
Lab/Other Hours Breakdown: Clinical Hours	0
Lab/Other Hours Breakdown: Practicum Hours	0
Other Hours Breakdown	0

Approval Signatures

Title	Signature	Date
Prepared by:		
Department Head:		
Division Chair:		
Dean/VPI:		
Approved by CIR:		

Additional Course Information

Topical Outline: Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, and clinical or other non-lecture instruction).

Exploring the Network
Configuring a Network Operating System
Network Protocols and Communications
Network Access
Ethernet
Network Layer
Transport Layer
IP Addressing
Subnetting IP Networks
Application Layer

Course Learning Outcomes:

Learning Outcomes – Upon successful completion of this course, students will:

1. Configure a small network using basic security
2. Perform basic configuration on routers and switches
3. Implement IP addressing schemes.

Methods of Assessment:

All outcomes will be assessed by one or more of the following:

Individual Projects
Tests and Quizzes
Lab Assignments
Final Exam
Skills Exam

Required text(s), optional text(s) and/or materials to be supplied by the student:

• CCNA Portable Command Guide Third Edition by Empson ISBN-9781587204302 Book:9780133381368
• USB Flash Drive
• High-speed Internet Connection

Suggested Course Maximum:

16

List any specific or physical requirements beyond a typical classroom required to teach the course.

Computer for each student, Cisco routers, switches, wireless routers, fiber cable tester, Ethernet cable testers.

The course maximum is set by current equipment contained in the lab.

Course Requirements/Grading System: Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course.

Course Requirements:
Comprehensive Skills Exam: 20-25%

Comprehensive Final Exam: 20-25%
Labs / Homework: 25-30%
Chapter Tests: 20-25%
Attendance / Participation: 0-15%

Grading System:
100 -90 = A
89 - 80 = B
79 - 70 = C
69 - 60 = D
and below = F

Curriculum Checklist:

☐**Administrative General Education Course** (from ACGM, but not in WCJC Core) – No additional documents needed.

☐**Administrative WCJC Core Course**. Attach the Core Curriculum Review Forms

    ☐Critical Thinking

    ☐Communication

    ☐Empirical & Quantitative Skills

    ☐Teamwork

    ☐Social Responsibility

    ☐Personal Responsibility

☒**WECM Course** -If needed, revise the Program SCANS Matrix and Competencies Checklist