Course Syllabus
Wayne County Community College District
CT 217 Computer Networking IV

CREDIT HOURS: 4.00

CONTACT HOURS: 60.00

COURSE DESCRIPTION: This course covers introduction to Windows 2003 directory services infrastructure. Topics include active directory overview, planning the active directory structure and implementation, multi domain structure, directory sites, replication, group, policies and certificates, planning and implementing active directory connector, upgrading to Windows NT domain models to active directory.

EXPECTED COMPETENCIES:
Upon successful completion of this course, the student will:
- Explain Windows 2003 directory services and Windows 2003 Server Active directory structure
- Explain the use of organizations units, domains, trees, forests, and sites in Active Directory
- Discuss the use of group policies in Windows 2003 directory services
- Discuss the advantages of using Active Directory and TCP/IP together on a network.
- Analyze business organization structures
- Analyze business management models
- Analyze business goals and strategies
- Analyze business processes and information flow
- Analyze legal requirements and company policies
- Analyze outside relationships, acquisition plans, and risk tolerance
- Analyze IT organizations structures
- Analyze IT decision flow
- Analyze the relationships between a company and its IT organization
- Analyze how IT strategies map to an organizations goals and objectives
- Analyze IT funding and cost issues
- Analyze change management and user productivity issues
- Analyze the effect of outsourcing on Active Directory design
- Analyze an organization’s user base, resources, user access, and user productivity
- Analyze an organization’s existing software systems and databases
- Analyze corporate culture and software implementation
- Analyze system performance and security issues
- Analyze backup and disaster recover methods
- Analyze technical support, user help, and training
- Analyze hardware systems used in organizations
- Analyze local area networks and bandwidth
- Analyze wide area networks and bandwidth
- Analyze network management
- Analyze user access, productivity and performance issues
- Analyze network and Internet security
- Understand Active Directory design issues
- Develop a forest design, including a forest modification policy
- Develop a tree and domain design, including a tree and domain modification policy
- Develop a schema design, including a schema modification policy
- Design Active Directory services in relation to organizational and business management models.
- Design Active Directory services in relation to network models.
- Create and implement an OU plan that includes delegating authority and managing group policies
- Create and implement a site plan
- Create and implement a DNS server plan
- Plan for coexisting with other directory services
- Plan and use Windows 2003 groups, including domain local, global, and universal groups
- Plan group policy and create new group policies
- Configure group policy objects
- Plan and configure group policy management of security and client workstation desktops.
- Plan and implement Active Directory object security by using administrative security groups
- Plan and implement Active Directory object security for domains, sites, Ous, and group policy
- Plan and create group policy filters
- Plan for Active Directory coexistence with other directory services
- Explain the operations master roles in Active Directory
- Transfer and seize the roles of operations masters
- Explain the role of the global catalog server in Active Directory
- Create an operations master and global catalog server design topology for a basic Active Directory installation
- Create operations master and global catalog server design topologies for regional, national, and international geographic models.
- Explain how Active Directory replication works, including the use of the Knowledge Consistency Checker
- Design the Active Directory replication topology for an organization
- Design Dfs for folder and file replication
• Plan disaster recovery methods, including backing up and restoring Active Directory and other critical system data
• Explain Active Directory containers
• Discuss organizational analysis techniques

**ASSESSMENT METHODS:**
Student performance may be assessed by examination, quizzes, case studies, oral reports, group discussion, written reports or presentations and/or in-house or field projects. The instructor reserves the option to employ one or more of these assessment methods during the course.

**GRADING SCALE:**
- 90%-100% = A
- 80%-89.9% = B
- 70%-79.9% = C
- 60%-69.9% = D
- <60% = E