



# Wayne County Community College District

## COURSE SYLLABUS

### CIS 244 TCP/IP CONCEPTS AND PRACTICES

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**CREDIT HOURS:** 3.00

**CONTACT HOURS:** 45.00

**COURSE DESCRIPTION:**

In this course the students will learn Transmission Control Protocol/Internet Protocol (TCP/IP) key concepts and protocols. Network routing, network troubleshooting and network management also will be addressed.

**PREREQUISITE:** *CIS 110, CIS 240*

**EXPECTED COMPETENCIES:**

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

- Introduce and understand basic network functions
- Explore the OSI model
- Understand transmission basics and network media
- Introduction to TCP/IP Protocols
- Gain an understanding of topologies and Ethernet standards
- Explore network hardware components
- Gain understanding of WANS and remote connectivity
- Introduce wireless network concepts
- Examine network operating systems
- Explore voice over IP
- Gain understanding of network security issues
- Trouble shoot network issues

**ASSESSMENT METHODS:**

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. 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