



## **CNT-102 Introduction to Networking**

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### **Description:**

CNT-102 prepares students for success on CompTIA's Network+ N10-007 certification exam and provides a solid foundation for an exciting career installing, configuring, and troubleshooting computer networks. The course is fully mapped to all objectives of the new CompTIA Network+ N10-007 certification exam, including protocols, topologies, hardware, network design, security, and troubleshooting. The organization of CNT-102 makes essential information easily accessible and helps readers visualize high-level concepts. An emphasis on real-world problem solving equips students to succeed in any computer networking environment. MindTap Networking provides additional hands-on practice and certification test prep.

**Textbook:** Network + Guide to Networks, 8<sup>th</sup> Ed. – West, Dean, Andrews – ISBN: 9781337569415

### **Course objectives:**

Throughout the course, you will meet the following goals:

- Define common networking terms and compare different network models.
- Describe the operation of the basic network hardware most commonly used.
- Describe the primary physical and logical networking topologies in common use.
- Explain the purpose of a network protocol and the layers in the TCP/IP architecture.
- Understand and apply the basics of IP addressing, the OSI, and IEEE 802 models.
- Describe the advanced features and operation of various network hardware.
- Describe network security devices and develop a network security policy.
- Explain the major components of an OS, including file system, processes, and the kernel.

### **Contents:**

Ch 1: Introduction to Networking  
 Ch 2: Network Equipment  
 Ch 3: Addressing on Networks  
 Ch 4: Network Protocols  
 Ch 5: Network Cabling  
 Ch 6: Wireless Networking

Ch 7: Virtualization/Storage and the Cloud  
 Ch 8: Subnetting and VLANs  
 Ch 9: Network Security  
 Ch 10: Authentication and Access Control  
 Ch 11: Performance and Recovery  
 Ch 12: Wide Area Networks

### **Grading Scale**

**A = 95-100%**  
**B = 88-94.9%**  
**C = 80-87.9%**  
**D = 70-79.9%**  
**F = Below 70%**

### **Grade Weighting**

**Chapter Quizzes..... 70%**  
**Final Exam ..... 30%**  
**100%**