



CNT-103 Network Security

Description:

Mapped to the new CompTIA Security+ SY0-501 Certification Exam, CNT-103, thoroughly prepares students for professional certification and career success. The course covers threats, attacks, and vulnerabilities; technologies and tools for combating attacks, architecture, and design; identity and access management; risk management; and cryptography. It also includes expansive coverage of embedded device security, attacks and defenses, and the latest developments and trends in information security, including new software tools to assess security. New Hands-On Projects and case activities help readers put what they learn into practice, while end-of-chapter exercises direct them to the Information Security Community Site for additional activities, blogs, videos, and up-to-the-minute news and insight from the field.

Textbook: CompTIA Security+ Guide to Network Security Fundamentals, 6th Ed. – Ciampa – ISBN: 9781337289306

Course objectives:

Throughout the course, you will meet the following goals:

- Define information security and explain its challenges and its importance.
- Define malware and list the different types of malware.
- Explain the different types of cryptographic and networking-based attacks.
- List the different types of network security devices and how they can be used.
- Explain how to manage and secure network platforms.
- Describe how to assess and offer solutions for the security posture of an enterprise.

Contents:

Ch 1: Introduction to Security	Ch 9: System and Application Security
Ch 2: Malware and Social Engineering Attacks	Ch 10: Mobile and Embedded Device
Ch 3: Basic Cryptography	Ch 11: Access Management Fundamentals
Ch 4: Advanced Cryptography and PKI	Ch 12: Authentication Account Management
Ch 5: Networking-Based and Web Server Attacks	Ch 13: Vulnerability Assessment & Security
Ch 6: Network Security Devices and Technologies	Ch 14: Business Continuity
Ch 7: Administering a Secure Network	Ch 15: Risk Mitigation
Ch 8: Wireless Network Security	

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%
<u>Final Exam</u>	<u>30%</u>
	100%