

# ITNT-2990: NETWORKING CAPSTONE

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## Cuyahoga Community College

**Viewing: ITNT-2990 : Networking Capstone**

**Board of Trustees:**

January 2024

**Academic Term:**

Fall 2024

**Subject Code**

ITNT - Info Tech-Networking Software

**Course Number:**

2990

**Title:**

Networking Capstone

**Catalog Description:**

Capstone course for Networking Hardware and Software degree programs. Focus is on career preparation, importance of soft skills, ethical considerations, and industry-recognized information technology certifications.

**Credit Hour(s):**

3

**Lecture Hour(s):**

3

## Requisites

**Prerequisite and Corequisite**

To be taken within the last 15 credits of the IT (Networking Software) or the EET (Networking Hardware) degree programs, or departmental approval.

## Outcomes

**Course Outcome(s):**

Apply software and/or hardware networking knowledge to prepare for related industry accepted certification exams.

**Objective(s):**

1. [Explain the relevance of information technology certifications.](#)
2. Identify industry-recognized certifications related to hardware and/or software.
3. Prepare to sit for software and/or hardware certification exams.

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**Course Outcome(s):**

Refine the skills necessary for industry employment success, apart from hardware and software skills.

**Objective(s):**

1. [Discuss the importance of soft skills required in the information technology industry.](#)
2. Identify ethical considerations related to information technology.
3. Demonstrate skills related to resume writing, job search techniques, interviewing, and electronic portfolio creation.

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**Methods of Evaluation:**

Evaluation can include any combination of the following:

1. Assignments

2. Quizzes
3. Exams
4. Lab Assignments
5. Projects (e.g., project demonstrating understanding of enterprise network physical/logical topology, IT-related Request for Proposal response, case study analysis of an IT-related process, or other special project approved by the professor.)
6. Reports
7. Oral Evaluations
8. Portfolio Evaluation

**Course Content Outline:**

1. Industry-recognized certification exams relevant to computer hardware and/or software
  - a. examples include A+, Network+, Security+, Linux+, CCNA, Microsoft certification
2. Pre-certification exam preparation
  - a. available test-prep resources
  - b. practice certification exams
  - c. certification exam strategies
3. Importance of information technology (IT) industry recommended soft skills
  - a. teamwork, communication, self-directed, adaptability, problem solving, critical thinking, work ethic, interpersonal
4. Ethical Considerations
  - a. understanding of ethical dilemmas
  - b. common ethical considerations related to IT
5. Employment Preparation
  - a. CCC career services
  - b. resume writing
  - c. job search
  - d. interview preparation
  - e. electronic portfolio creation
  - f. informational interview with current IT professional

**Resources**

Testout Staff. *TestOut Network Pro*. Moab: TestOut Corporation, 2021.

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TestOut Staff. *TestOut PC Pro*. Moab: TestOut Corporation, 2022.

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Odom, W. *CCNA 200-301 Official Cert Guide*. 1st. Hoboken: Cisco Press, 2019.

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TestOut Staff. *Hybrid Server Pro: Core*. Moab: TestOut Corporation, 2023.

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TestOut Staff. *Linux Pro*. Moab: TestOut Corporation, 2022.

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Ciampa, M. *CompTIA Security+ Guide to Network Security Fundamentals*. 7th. Boston: Cengage, 2022.

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West, J. *Network+ Guide to Networks*. 9th. Boston: Cengage, 2022.

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Andrews, J., Shelton, J., & Pierce, N. *CompTIA A+ Guide to Information Technology Technical Support*. 11th. Boston: Cengage, 2023.

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**Resources Other**

1. <https://www.tri-c.edu/career-services/index.html> (<https://www.tri-c.edu/career-services/>)
2. <https://www.microsoft.com/en-us/learning/certification-overview.aspx>
3. <https://certification.comptia.org/>
4. <https://www.cisco.com/c/en/us/training-events/training-certifications/certifications/associate/ccna.html>
5. <https://www.wireshark.org>
6. <https://www.cengage.com/unlimited/>

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