

Syllabus

COURSE GENERAL INFORMATION

Course Title: Networking Fundamentals
Code: PWNF 1010
Contac Hours: 42.5
Term: August 13, 2019 – August 26, 2019
Teacher: Joel Vargas
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Course Description

Networking Fundamentals covers basic networking concepts within the context of the networks you encounter every day. In this 45-hour course, students will develop hands-on networking skills and understand the role networks play in our lives. This course introduces students to networking careers and prepares them for further study.

Objectives

- Learn how to plan and install a network using real equipment and connect it to the Internet.
- Practice verifying and troubleshooting network and Internet connectivity.
- Learn how to recognize and mitigate security threats to a home network.
- Configure common Internet applications, set up sharing between computers, and configure basic IP services.
- Get immediate feedback on your work through built-in quizzes and tests.
- Connect with the global Cisco Networking Academy community.

Themes Content

- Module 1: Communicating in a Connected World
- Module 2: Internet Access Technology
- Module 3: Build a Small Network
- Module 4: Network Protocols and Communications
- Module 5: Application Network

Assessments

- Communication in a Connected World
- Access Technology

Laboratories

- Lab 1: Binary Conversions
- Lab 2: Netwalk- Interactive Puzzle
- Lab 3: Observing DNS Resolution
- Lab 4: My Local Network

Evaluation Criteria

CRITERIA	Grade total
Quizzes	100
Assessment 1-2	100
Laboratories 1-4	100
Mid-Term Exam	100
Final Exam	100
Total	500

Educational Resources

- Cisco Network Academy (2020). CCNA Introduction to Networking. *Netacad*. Retrieve of <https://9001538.netacad.com/courses/509789>
- Sequeira, A. (2016). CompTIA Network + N10-007 Cert Guide: Learn, Prepare and practice for exam Success. Indianapolis, Indiana. Pearson.

Notes

- **Reasonable Accommodation:** Any student who requires a reasonable accommodation should do the request at the beginning of the course or as soon as he/she acquires knowledge of what it requires, through the Professor in charge and this notifying the Academic Director.
- **Honesty, fraud, plagiarism:** The lack of honesty, fraud, plagiarism and/or any other inappropriate behavior about the student's academic performance constitute violations of the Institution's Catalog, its Rules of Conduct and Student Duties. Major infractions, as determined by the Catalog, may result in the suspension of the Institution for a definite time or permanent expulsion as stipulated in the Norms of Conduct and Duties of the Student.