



Password Technical College
44 Calle Dr. Santiago Veve
San Germán, PR 00683
<http://passwordtech.edu20.org>

Syllabus

COURSE GENERAL INFORMATION

Course Title: Security Essentials Lab
Code: LWHS 1020
Contact Hours: 56.25
Term: April 5, 2021 to June 7, 2021
Teacher: Prof. Joel Vargas
Email: jvargas@passwordpr.com

Course Description

Information Technology security is paramount to organizations. With the massive amounts of data transmitted and stored throughout the world, it's essential to have effective security practices in place. This class will introduce the baseline skills needed to perform core security functions.

Objectives

At the end of the course:

- Students will learn the basics of being safe online.
- Students will be introduced to different types of malware and attacks, and how organizations are protecting themselves against these attacks.
- Students will explore the career options in cybersecurity.
- Will learn the language used to describe cybersecurity concepts is designed to be easily understood by learners at all levels and embedded interactive activities help reinforce comprehension.
- Will participate in activities, including paper-based labs, videos, and quizzes, address a variety of learning styles and help stimulate learning and promote increased knowledge retention.

Skills Distribution

- Lab 1- What Was Taken
- Lab 2- Who Owns Your Data
- Lab 3- Cybersecurity Cube
- Lab 4- Learning details of Attack
- Lab 5- Exploring the World of Cybersecurity Professional



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Skills Distribution

Introduction to Cybersecurity v2.0 Course Outline

Class 1	Chapter 1- The Need fo Cybersecurity
Class 2	Chapter 1- The Need fo Cybersecurity (Cont.)
Class 3	Chapter 2- Attacks, Concepts and Techniques
Class 4	Chapter 2- Attacks, Concepts and Techniques (Cont.)
Class 5	Chapter 3- Protecting Your Data and Privacy
Class 6	Chapter 3- Protecting Your Data and Privacy (Cont.)
Class 7	Chapter 4- Protecting Your Data and Privacy
Class 8	Chapter 4- Protecting Your Data and Privacy (Cont.)
Class 9	Chapter 5- Cybersecurity is a Big Business?
Class 10	Chapter 5- Cybersecurity is a Big Business? (Cont.)
Class 11	Chapter 6- The Cybersecurity World
Class 12	Chapter 6- The Cybersecurity World (Cont.)
Class 13	Chapter 7- Cybersecurity Cube
Class 14	Chapter 8- Cybersecurity Threats, Vulnerabilities and Attacks
Class 15	Chapter 8- Cybersecurity Threats, Vulnerabilities and Attacks (Cont.)
Class 16	Chapter 9- Cryptography
Class 17	Chapter 9- Cryptography (Cont.)
Class 18	Chapter 10- High Availability

Lab Policy

1. For the student's and equipment's safety **no eating and/or drinking** is allowed in the classroom or laboratory.
2. Students must always apply preventing ESD (Electrostatic Discharge) procedures before using electronic devices.
3. The use of Smartphone or any other personal device is prohibited during lab sessions unless approved by the professor.



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Evaluation Criteria

CRITERIA	Grade total
Laboratory 1-2	100
Laboratory 3-5	100
Laboratory 6-7	100
Attendance	100
Total	400

*4 Points less for each absence.

*Assignments are always due in class on the day designated. You are responsible for any work lost due to technical problems, etc. Late papers will lose a letter grade for each day that they are late. Any exceptions must be properly documented and discussed in advance for an extension to be arranged.

Educational Resources

Cisco Corporate Social Responsibility program. (2021). Cisco Network Academy.

Netacad. <https://www.netacad.com>

Neo LMS (2021). Security Essentials. *passwordtech.edu20*.

<https://passwordtech.edu20.org/>

Gibson, D. (2017). CompTIA Security + Get certified get ahead SY0-601 Study Guide.

(4th Edition). YCDA, LLC. Virginia Beach, VA.



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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, and plagiarism and / or any other inappropriate behavior in relation to 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.