Jr Cyber-security Analyst Course, Class 5: Network Defense

Tuesday & Thursday 5:30-7:30 pm Virtua

with Dr. Mayreather Willis
Email: mwillis@challengeprepacademy.org

Class Overview

This class will be a blend of virtual course sessions via Google Classroom/Meeting and online learning modules from Cisco Networking Academy links. Expect for virtual sessions to be a combination of condensed online learning modules and student discussions. Students will then be required to access the online learning modules throughout the week for a deeper dive into the course material. There will be a weekly assignment and quiz covering the weeks material to assist in gaining a more thorough understanding of content. Flexibility, participation and self-motivation will be critical in your successful completion of this course 27 hour course!

After successful completion of this course, you should have developed an understanding of: How to monitor and protect your network and evaluate security alerts.

Class Website

All assignments and directions will be posted to Google Classroom site that can be accessed by students. Students are encouraged to view Google Classroom site weekly to find assignments on Google Calendar and pertinent documents in Class Drive Folder.

Click here to go to the Class Google Site

Grading Components

- ❑ Lesson Assignments
  - Must Do
  - Should Do
  - Aspire To
- ❑ *Mastery Checks (Must pass with ≥75% or retest)
- ❑ End of Module Quizzes (Can take as often as you want)
- ❑ Final Exam (Must pass with ≥80% or retest)

Tips for Distance Learning

- ❑ Get out of bed! That is to say that you should create a place to do your work that is free from distraction.
- ❑ Schedule your day and include:
  - ❑ Google Classroom/Teams or Zoom meetings
  - ❑ Specific homework assignments
  - ❑ Breaks
- ❑ Have a specific goal or task you want to complete during each working session
- ❑ Work for 25 minutes then take a 5 minute break where you get up, dance, stop looking at a screen
- ❑ Write down your username and password for the different sites you use in a SAFE place
- ❑ Shut down your computer/laptop each night

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Virtual Meeting Rules

- ❏ Attend all classes.
- ❏ Log on to the meeting at the START of the meeting time. Just like class, it is important to arrive on time.
- ❏ Be engaged in the discussion
  - Try to find a quiet place to reduce distractions
- ❏ Type in the chat or click "raise hand" to be unmuted
- ❏ No recording or taking pictures during the meeting
- ❏ Stay on topic.
- ❏ Do not sign up for Self-Pacing classes. If you do, your scores will not count. It is your responsibility to log into this instructor lead course.

*Weekly Assignments

Week 1 - Module 1: Understanding Defense , Quiz
Module 2: System and Network Defense, Quiz
Module 3: Access Control, Quiz
Homework: Checkpoint Exam: Principles, Practices, and Processes of Network Defense due Sunday before 12 noon
Week 2 - Module 4: Access Control Lists, Quiz
Module 5: Firewall Technologies, Quiz
Module 6: Zone-Based Policy Firewalls, Quiz
Review Modules 1-6
Week 3 - Module 7: Cloud Security, Quiz
Module 8: Cryptography, Quiz
Homework: Checkpoint Exam: Firewalls, Cryptography, and Cloud Security due Sunday before 12 noon
Week 4 - Module 9: Technologies and Protocols, Quiz
Module 10: Network Security Data, Quiz
Module 11: Evaluating Alerts, Quiz
Review Modules 7 - 11
Day 5 - Checkpoint Exam: Evaluating Security Alerts
Network Defense (NetDef) Course Final Exam expand start Course Final Exam
End of Course Survey

Grading Policy

- ❏ All assignments and quizzes must be completed by 12:00 PM on Sunday of the class week to receive credit for them; unless otherwise stated. **(Students must communicate with me prior to due date/time if you are unable to complete requirements on time!)**
- ❏ Students MUST earn ≥80% on Mastery Checks, You have 3 times to take. Your grade will be average.
- ❏ No revisions or retests on Final Exam.
- ❏ Students are to check Google Site for assignments and grades.
- ❏ Missing Work must be coordinated with me in order to make it up at a later time.
- ❏ Missing Quizzes must be coordinated with me in order to make them up at a later time.

Academic Honesty and Stuff

- ❏ Cheating means copying or lending for copying any form of work
  - ❏ This INCLUDES google!
- ❏ Good students don't ask their friends or other students to compromise their values!
- ❏ Be a good classmate by offering assistance to your fellow classmates. Google Hangouts is a good option for meeting up and having discussions!
- ❏ Be prepared! Participate! Ask LOTS of questions! We will move through the content swiftly!
- ❏ Communicate, communicate, communicate!