



Saint Martin's
UNIVERSITY

W A S H I N G T O N
VETS2TECH

Veterans ★ Transitioning service members ★ Military spouses

Cybersecurity Administration
Weekly Training Plan

Agenda

- Program Notes
- Cybersecurity Administration Pathway learning objectives
- Professional Development overview
- Weekly Breakdown (weeks 1-16)
 - Session 08
 - Session 09
- Questions
- Conclusion

Program Notes

- **Current pathway prerequisites:**
 - College-level Algebra
 - Behavioral Interview
- **Classroom Instruction:**
 - Academics:
 - Students will be in class Monday through Friday from 9:00 am to 5:00 pm
 - Students will attend three classes, twice a week for 2 ½ hours each class
 - During unstructured time, students will have the opportunity to work on classwork, work on group projects, or study for certification exams
- **Professional Development:**
 - Career Development Managers will teach Professional Development classes twice a week and focus on:
 - Resumes
 - Cover Letters
 - Virtual Presence (LinkedIn, Social Media, etc.)
 - Job Search
 - Mock Interviews



Cybersecurity Administration – Learning Objectives

May 25, 2023

Pre-Requisites

College Algebra transcripts
or
Math placement test available online

Outcomes

- ❑ Understand physical security principles, Internet & wireless security
- ❑ Analyze user authentication, permissions, password & audit policies, encryption & malware
- ❑ Create dedicated firewalls, network isolation & protocol security
- ❑ Configure & protect cloud data stores & local databases
- ❑ Conduct security & risk assessments & system audits
- ❑ Create an incident response report
- ❑ Create a risk assessment report on a real-world business

Certification Opportunities*



* Two certification exam vouchers are included in lab fees. WAV2T reserves the right to change which certifications are included under the voucher program.

Core

CSC 160: Computing Technologies

Python/PHP

- ❑ Develop skills in Python/PHP/Bash scripting
- ❑ Develop basic programming logic
- ❑ Learn basics of Linux CLI – using Kali Distribution
- ❑ Key topics: conditionals, strings/int/float; tuples, dictionaries, lists, methods, sets, classes, binary/hex
- ❑ Understand key data structures and algorithms
- ❑ Web programming basics
- ❑ Install Git & create a GitHub account

CSC 325: Computer Security

- ❑ Analyze security requirements
- ❑ Understand CIA/DAD triad
- ❑ Relate national security implications of cybersecurity & info. Infrastructure; protection to individual/private
- ❑ Understand how OS, Apps and websites work, how to discover & exploit their vulnerabilities
- ❑ Apply Kali Linux tools: Maltego, Burp Suite, Sqlmap, Metasploit
- ❑ Intro to cryptography: monitor crypto systems
- ❑ Octal and permission settings in Linux
- ❑ Linux CLI core commands

CSC330: Network and Server Fundamentals

CompTIA Network+ Exam Preparation

- ❑ Explain the concepts of computer networking, the protocols: TCP/IP & DHCP & NPS
- ❑ Understand Windows active directory
- ❑ Implement security configuration on network devices & other technologies;
- ❑ Explain the basic concepts of virtualization, virtual machines, and software defined networks
- ❑ Intercept & analyze network traffic
- ❑ Learn how to harden OS/Apps and secure networks from attacks
- ❑ Identify adversary threat vectors (tactics & against / using OSI level protocols)
- ❑ Understand Wireshark. Metasploit, Aircrack-ng, Nmap,

Advanced

CSC 455 Cloud Technologies

AWS Solutions Architect Exam Preparation

- ❑ Explain concepts of Identity Management, the Control Plane, Access Control to cloud/server architectures
- ❑ AAA: Authentication, Authorization, Accounting
- ❑ Cloud security/cloud service models/backup & log analytics
- ❑ Cloud gateways, Web App security, Firewalls & dealing with DDoS threats
- ❑ Cloud Disk & Storage Encryption
- ❑ Identify key legal/ethical/regulatory elements that underpin identity management, AC, & accountability

CSC 364: Cybersecurity Threat Intelligence

CompTIA Sec+ Exam Preparation

- ❑ Monitor use of data files and regulate access to safeguard information in computer files
- ❑ Demonstrate how NIST Cybersecurity Framework is used in planning/assessing info. sys. security plans/ programs
- ❑ Autopsy tools – digital forensics
- ❑ Monitor current report of viruses/understand when to update virus protection systems
- ❑ Reverse engineering (Ghidra)
- ❑ Research top 10 vulnerabilities according to OWASP
- ❑ Shodan.io, OSINT

CSC 426: Vulnerability Assessment:

- ❑ Relate organizational risk management to vulnerability assessment and risk mitigation
- ❑ Apply the concepts of threat modeling & threat surfaces to IT systems, public, private and hybrid cloud environments
- ❑ Explain architectural security elements OSI
- ❑ Monitor current report of viruses/understand when to update virus protection systems
- ❑ Conduct vulnerability assessments using CVE: Common Vulnerabilities and Exposure data, in conjunction with situation-specific threat modeling
- ❑ Develop and implement risk mitigation solutions to contain, eliminate or otherwise mitigate risks found in IT systems



Professional Development

- The Career Development Managers (CDM) for the Washington Veterans to Tech (WaV2T) program are responsible for the job placement function for a cohort of WaV2T students.
- Our CDMs also maintain relationships with employers, and graduates of the WaV2T program, managing the social network of this specialized community.



Resumes

- Translating military experience
- Personal assessment
- Target Resumes



Cover Letters

- Personalization
- Selling yourself



Virtual Presence

- LinkedIn
- Personal branding
- Social Media



Job Search

- Target job market
- Hiring managers
- Recruiters



Interview skills

- Research Company
- Mock Interviews
- Negotiations
- Job offers

Week 1

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00 AM	WaV2T Orientation				
8:30 AM			CSC 325: Computer Security		Unstructured Time
9:00 AM		Professional Development		Professional Development	
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM	WaV2T Orientation	CSC 330: Networking and Server Fundamentals	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	Unstructured Time
1:30 PM					
2:00 PM					
2:30 PM					
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4:30 PM					
5:00 PM					

Learning Outcomes

- **CSC 160**
 - Course Introduction
 - Algorithms, Pseudocode, and Software Development
 - Introduction to Python
 - Program #1, Quiz #1
- **CSC 325**
 - Course Introduction
 - Cybersecurity Landscape
 - Threats, Attacks, and Vulnerabilities
 - TestOut and LabSim Activities
- **CSC 330**
 - Course Introduction
 - Networking Basics
 - OSI & TCP Reference Models
 - TestOut and LabSim Activities

Professional Development

- Classes:
 - Orientation, administrative tasks, teams and calendar overview

Week 2



Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 325: Computer Security	Professional Development	CSC 325: Computer Security	Professional Development	Unstructured Time
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	Unstructured Time
1:30 PM					
2:00 PM					
2:30 PM					
3:00 PM					
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5:00 PM					

Learning Outcomes

- **CSC 160**
 - Data Types, Assignment Statements, and Arithmetic Expressions
 - Int, Float, Strings, Lists, Tuples, and Dictionaries
 - zyBooks Labs, Quiz #2
- **CSC 325**
 - Network and Endpoint Security
 - Device/Network Protection and Network/Host Design
 - TestOut and LabSim Activities
- **CSC 330**
 - Network Cabling and Hardware Devices
 - Network Cabling Discussion
 - Research Paper #1
 - TestOut and LabSim Activities

Professional Development

- Classes:
 - Your focus determines your reality
 - Guest speaker from Amazon

Week 3



Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 325: Computer Security	Professional Development	CSC 325: Computer Security	Professional Development	Unstructured Time
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	Unstructured Time
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM					
1:30 PM	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	Unstructured Time
2:00 PM					
2:30 PM					
3:00 PM					
3:30 PM					
4:00 PM					
4:30 PM					
5:00 PM					

Learning Outcomes

- **CSC 160**
 - Iteration & Selection Statements and Boolean Logic
 - Branching (if-else), Loops (for, while)
 - zyBooks Labs, Program #2, Quiz #3
- **CSC 325**
 - Network and Endpoint Security
 - Security Appliances, Firewalls, VPNs, and Network Threats/ Applications/Access Control
 - TestOut and LabSim Activities
- **CSC 330**
 - Network Addressing and Services
 - IPv4, DHCP, (others: SMTP, IMAP/POP, HTTP), Transport Layer (TCP/UDP), and Network Troubleshooting
 - Cisco Packet Tracer lab #1
 - TestOut and LabSim Activities

Professional Development

- Classes:
 - Survey your professional environment (1)
 - Survey your professional environment (2)

Week 4



Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 325: Computer Security	Professional Development	CSC 325: Computer Security	Professional Development	Unstructured Time
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	Unstructured Time
1:30 PM					
2:00 PM					
2:30 PM					
3:00 PM					
3:30 PM					
4:00 PM					
4:30 PM					
5:00 PM					

Learning Outcomes

- **CSC 160**
 - Designing with Functions and Using Lists & Dictionaries
 - zyBooks Labs
 - Quiz #4, Quiz #5
- **CSC 325**
 - Identity, Access, and Account Management
 - Access Control, Active Directory, User Mgmt, and Authentication/ Authorization
 - Research Paper #2
 - TestOut and LabSim Activities
- **CSC 330**
 - Network Addressing and Services
 - DNS, NTP, IPv6, Troubleshooting DNS & IP Communications, and Troubleshooting IP configurations
 - TestOut and LabSim Activities

Professional Development

- Classes:
 - Constructing your Resume/Cover letter
 - Student Bio and Resume construction
 - AWS guest speaker

Week 5

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 325: Computer Security	Professional Development	CSC 325: Computer Security	Professional Development	Unstructured Time
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	Unstructured Time
1:30 PM					
2:00 PM					
2:30 PM					
3:00 PM					
3:30 PM					
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5:00 PM					

Learning Outcomes

- **CSC 160**
 - Working with Files (input/output) and Strings (Subscript Operator)
 - zyBooks Labs
 - Program #3
 - Quiz #6
- **CSC 325**
 - Cryptography and Public Key Infrastructure (PKI)
 - Cryptography & PKI Implementations, Hashing, and File Encryption
 - TestOut and LabSim Activities
- **CSC 330**
 - Ethernet/Wiring Standards
 - Research Paper #2
 - TestOut and LabSim Activities

Professional Development

- Classes:
 - Define your target market and personal marketing plan
 - Professional Development roadmap and milestones
 - Review resumes and student bios

Week 6

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 325: Computer Security	Professional Development	CSC 325: Computer Security	Professional Development	Unstructured Time
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	Unstructured Time
1:30 PM					
2:00 PM					
2:30 PM					
3:00 PM					
3:30 PM					
4:00 PM					
4:30 PM					
5:00 PM					

Learning Outcomes

- **CSC 160**
 - Data Types (Classes) and Object-Orientation Programming (OOP)
 - Zybooks Labs
 - Quiz #7
- **CSC 325**
 - Cloud, Virtualization, and Wireless Security
 - Wireless Threats/Defenses, Securing Mobile Devices, and Virtual Networking
 - Governance and Compliance
 - Research Paper #3
 - TestOut and LabSim Activities
- **CSC 330**
 - Firewalls and Intrusion Detection
 - TestOut and LabSim Activities

Professional Development

- Classes:
 - Gather marketplace information & other methods of search
 - Hiring Managers
 - Guest Speaker
 - Start Job Tracker

Week 7

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 325: Computer Security	Professional Development	CSC 325: Computer Security	Professional Development	Unstructured Time
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	Unstructured Time
1:30 PM					
2:00 PM					
2:30 PM					
3:00 PM					
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5:00 PM					

Learning Outcomes

- **CSC 160**
 - Event-Driven Programming and Graphical User Interfaces (GUI)
 - Program #4
 - Quiz #8
- **CSC 325**
 - Security Assessments
 - Penetration Testing, Monitoring & Reconnaissance, and Intrusion Detection
 - Secure Coding (Data & Applications)
 - TestOut and LabSim Activities
- **CSC 330**
 - Cisco Packet Tracker Lab #2 (in-class lab)
 - Research Paper #3

Professional Development

- Classes:
 - LinkedIn and your virtual presence
 - LinkedIn from a recruiter perspective
 - Elevator pitches and Interviewing

Week 8

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 325: Computer Security	Professional Development	CSC 325: Computer Security	Professional Development	Unstructured Time
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	CSC 160: Computing Technologies	CSC 330: Networking and Server Fundamentals	Unstructured Time
1:30 PM					
2:00 PM					
2:30 PM					
3:00 PM					
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Learning Outcomes

- **CSC 160**
 - Searching & Sorting Algorithms, Algorithm Complexity (Big-O) and Multi-Threading & Networking (Client/Server)
 - Quiz #9
 - Quiz #10
- **CSC 325**
 - Incident Response and Resilience
 - Log Mgmt, Digital Forensics, File & Packet Manipulation, Backups and Restores
 - Risk Management
 - TestOut and LabSim Activities
- **CSC 330**
 - Cellular Technologies
 - CompTIA Network+ exam review
 - Group Presentation

Professional Development

- Classes:
 - Financial Health and assessing your finances
 - Transitioning to a new position
 - Guest Speaker

Transition from session 08 to 09

Notes:

- Students must pass Session 08 to move on to Session 09
- Mid-semester report, tracking students grades and certifications earned
- Setup interview schedule for students who demonstrate ability to go to FTE roles

Week 9



Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	Unstructured Time
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM	Professional Development	CSC 455: Cloud Technologies	Professional Development	CSC 455: Cloud Technologies	Unstructured Time
1:30 PM					
2:00 PM					
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5:00 PM					

Learning Outcomes

- **CSC 364**
 - Course Introduction
 - Threats, Attacks, and Vulnerabilities
 - Physical Security
 - Labs

- **CSC 426**
 - Course Introduction
 - Introduction to Penetration Testing
 - Video/Reading in TestOut (Modules 1 & 2)
 - PenTest Process & Types
 - Threat Actors & Target Selection
 - Assessment Types
 - Legal and Ethical Compliance
 - TestOut, TryHackMe, and Module 2 Quizzes

- **CSC 455**
 - Course Introduction
 - Cloud Concept Overview
 - Video/Reading in AWS Academy (Modules 1 & 2)
 - Cloud Concept Overview
 - Introduction to AWS
 - Create AWS Free Account
 - Configure Account and Create a Billing Alarm
 - CloudShell & AWS CLI Overview

Professional Development

- Classes:
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews

Week 10

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	Unstructured Time
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM	Professional Development	CSC 455: Cloud Technologies	Professional Development	CSC 455: Cloud Technologies	Unstructured Time
1:30 PM					
2:00 PM					
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5:00 PM					

Learning Outcomes

- **CSC 364**
 - Networks and Hosts Design and Diagnosis
 - Devices and Infrastructure
 - Labs
 - Quiz #1
- **CSC 426**
 - Reconnaissance
 - Video/Reading in TestOut (Modules 3 & 4)
 - Rec. Overview
 - Countermeasures & Scanning
 - Banner Grabbing
 - Enumeration Overview
 - TestOut and LabSim activities
 - Modules 3 & 4 quizzes
- **CSC 455**
 - Cloud Identity Access Management
 - Cloud Economies and Billing
 - Billing Dashboard
 - Introduction to AWS IAM
 - Create IAM User and MFA
 - Cloud Computing
 - Launching Cloud Services

Professional Development

- Classes:
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews
 - Guest Speaker

Week 11

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	Unstructured Time
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM	Professional Development	CSC 455: Cloud Technologies	Professional Development	CSC 455: Cloud Technologies	Unstructured Time
1:30 PM					
2:00 PM					
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5:00 PM					

Learning Outcomes

- **CSC 364**
 - Identity, Access, and Account Management
 - Cryptography and PKI
 - Labs
- **CSC 426**
 - Vulnerabilities Assessment
 - Video/Reading in TestOut (Modules 5 & 6)
 - Introduction to Vulnerabilities
 - Vulnerability Management Life Cycle
 - Scoring Vulnerabilities (CVSS & VPR)
 - Vulnerability Assessment Tools
 - Vulnerability Databases
 - TestOut and LabSim activities
- **CSC 455**
 - Cloud Service and Deployment
 - Global Infrastructure Overview
 - Identity and Access Management
 - IAM User, Groups, Roles, and Policies
 - Services and Categories
 - Labs and AWS Videos

Professional Development

- Classes:
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews

Week 12



Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	Unstructured Time
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM	Professional Development	CSC 455: Cloud Technologies	Professional Development	CSC 455: Cloud Technologies	Unstructured Time
1:30 PM					
2:00 PM					
2:30 PM					
3:00 PM					
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4:00 PM					
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5:00 PM					

Learning Outcomes

- **CSC 364**
 - Wireless Threats
 - Virtualization, Cloud Security, and Securing Mobile Devices
 - Labs
 - Group Projects
 - Quiz #2
- **CSC 426**
 - Exploiting Ackme's Application
 - Video/Reading in TestOut (Modules 7)
 - How to find Vulnerabilities
 - Automated vs Manual Vulnerability Research
 - Finding Manual Exploits
 - System Hacking
 - Privilege Escalation
 - Maintain Access
 - Mid-Term Exam
 - TestOut and LabSim activities
- **CSC 455**
 - Networking, VPC, and Hybrid
 - Cloud Security
 - Shared Responsibility Model
 - Securing Accounts and Data
 - Networking Basics
 - Virtual Private Cloud Networking and configuration
 - Virtual Private Cloud Security
 - Configure Security Group and NACLs
 - AWS Transit Gateway
 - Route 53
 - Building VPC
 - Mid-Term Exam

Professional Development

- **Classes:**
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews
 - Guest Speaker

Week 13

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	Unstructured Time
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM	Professional Development	CSC 455: Cloud Technologies	Professional Development	CSC 455: Cloud Technologies	Unstructured Time
1:30 PM					
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Learning Outcomes

- **CSC 364**
 - Securing Data and Applications
 - NIST Framework
 - Security Assessments
 - Labs
- **CSC 426**
 - Manual Exploitation: Practical
 - Video/Reading in TestOut (Modules 8 & 9)
 - Exploit & Cover your Tracks
 - Malware & Combat
 - Pentesting fundamentals & Ethics
 - PenTest Methodologies
 - Black, White, and Grey Box Penetration Testing
 - Practical: ACME PenTest
 - TestOut and LabSim activities
- **CSC 455**
 - AWS Compute Services
 - Compute Services Overview
 - Amazon Elastic Compute Cloud
 - Lunch EC2 instances (Windows & Linux)
 - Instance Connect and SSH
 - Launch instance with User Data and Meta Data
 - Access key & IAM Role
 - AWS Batch
 - Lunch Docker Container on ECS
 - AWS Lambda
 - AWS Elastic Beanstalk
 - Configure Elastic
 - Lab activity
 - Chapter Quiz

Professional Development

- **Classes:**
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews

Week 14



Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	Unstructured Time
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM	Professional Development	CSC 455: Cloud Technologies	Professional Development	CSC 455: Cloud Technologies	Unstructured Time
1:30 PM					
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Learning Outcomes

- **CSC 364**
 - Incident Response, Forensics, and Recovery
 - Autopsy
 - Ghidra Reverse Engineering
 - Risk Management
 - Labs
 - Quiz #3
- **CSC 426**
 - Intrusion Detection Systems & Firewalls
 - Video/Reading in TestOut (Modules 10 & 11)
 - Firewalls & Honeypots
 - Firewall Penetration Testing Facts
 - Avoid Firewall Detection
 - Bypass Windows Firewall with Metasploit
 - Evade Honeypots
 - Detect Malicious Network Traffic with a Honeypot
 - Create a Honeypot with Pentbox
 - TestOut and LabSim activities
- **CSC 455**
 - AWS Storage Services
 - Amazon Elastic Block Store (EBS)
 - Console Demonstration S3
 - EFS Configure Demonstration
 - AWS S3 Glacier
 - EBS Snapshots and DLM
 - Amazon Machine Images (AMI)
 - Versioning, Replication, and Lifecycle Rules
 - Configure Replication and Lifecycle
 - Configure S3 Static Website
 - Permission and Bucket Policies
 - Labs and Videos
 - Chapter Quiz

Professional Development

- **Classes:**
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews
 - Guest Speaker

Week 15

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	Unstructured Time
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM	Professional Development	CSC 455: Cloud Technologies	Professional Development	CSC 455: Cloud Technologies	Unstructured Time
1:30 PM					
2:00 PM					
2:30 PM					
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5:00 PM					

Learning Outcomes

- **CSC 364**
 - Governance and Compliance
 - Labs
 - Group Project
 - Quiz #4
- **CSC 426**
 - Principles of Security
 - Video/Reading in TestOut (Modules 12 & 13)
 - The CIA Triad
 - Principles of Privileges
 - Security Models, Threat Modeling & Incident Response
 - Websevers, Web Applications, and SQL Injections
 - Wi-Fi, Bluetooth, & Mobile Devices
 - Cyber Defense: Intro to Wireshark
 - TestOut and LabSim activities
 - Module 12 & 13 quizzes
- **CSC 455**
 - Amazon Databases and Analytics
 - Amazon RDS Overview
 - Demonstration: Create RDS and Configuration
 - Build a Database Server
 - Amazon Dynamo DB Table
 - Amazon Redshift
 - Amazon Aurora
 - Database Analytics Services
 - Configure Amazon Elastic Map Reduce
 - Athena and Glue
 - Labs and Videos
 - Module Quiz

Professional Development

- Classes:
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews

Week 16

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	CSC 364: Cybersecurity Threat Intelligence	CSC 426: Vulnerability Assessment	Unstructured Time
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM					
12:30 PM					
1:00 PM	Professional Development	CSC 455: Cloud Technologies	Professional Development	CSC 455: Cloud Technologies	Unstructured Time
1:30 PM					
2:00 PM					
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Learning Outcomes

- **CSC 364**
 - CompTIA Security+ Practice exams
 - CompTIA Security+ Exam
- **CSC 426**
 - Cloud Computing and Internet of Things
 - Video/Reading in TestOut (Modules 14 & 15)
 - IoT: Technologies and Protocols
 - IoT Hacking
 - Search for IoT with Shodan
 - Scan for IoT with Nmap
 - Cryptography
 - Cryptography Implementations
 - Cryptographic Attack Countermeasures
 - TestOut and LabSim activities
 - Module 14 & 15 quizzes
 - FINAL EXAM
- **CSC 455**
 - Cloud Architecture, Deployment & Automation
 - Well-Architected Framework Design Principles
 - Operational Excellence
 - Security, Reliability & Performance Efficiency
 - AWS Trusted Advisor
 - Caching and Amazon CloudFront
 - Demonstration: S3 Static Website with CloudFront
 - Cloud Development Kit (CDK)
 - Deploy and Configure a Web Application
 - AWS CodeStar Demonstration
 - Labs & Videos
 - Module Quiz
 - FINAL EXAM

Professional Development

- **Classes:**
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews
 - Graduation

Questions





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