



CodeHS

Virginia Cybersecurity Fundamentals Syllabus High School (125-155 contact hours)

Course Overview and Goals

Cybersecurity affects every individual, organization, and nation. This course focuses on the evolving and pervasive technological environment with an emphasis on securing personal, organizational, and national information. Students will be introduced to the principles of cybersecurity, explore emerging technologies, examine threats and protective measures, and investigate the diverse high-skill, high-wage, and high-demand career opportunities in the field of cybersecurity.

Learning Environment: The course utilizes a blended classroom approach. The content is a mix of web-based and physical activities. Students will modify existing code and run it in the browser, investigate cyber related topics and reflect on them and discuss them, create digital presentations, and engage in in-person collaborative exercises with classmates. Teachers utilize tools and resources provided by CodeHS to leverage time in the classroom and give focused 1-on-1 attention to students.

Programming Environment: Students modify and run programs in the browser using the CodeHS online editor. Students will be able to modify text-based programs in HTML, JavaScript, SQL and simulate shell commands. Students will also participate in simulated cyber attacks on safe sites in order to learn how to mitigate cyber attacks. Students will be able to document their processes and discuss best practices for preventing cyber attacks.

Quizzes: Each lesson includes at least one formative short multiple choice quiz. At the end of each module, students take a summative multiple choice quiz that assesses their knowledge of the concepts covered in the module.

Prerequisites: The Virginia Cybersecurity Fundamentals of course is designed for beginners to intermediate computer science students with at least some knowledge and interest in computer science. The course is highly visual, dynamic, and interactive, making it engaging for those new to computer science.

More information: Browse the content of this course at <https://codehs.com/course/10905>

Course Breakdown

Module 1: What is Cybersecurity? (1-2 weeks/5-10 hours)

This module provides an introduction to cybersecurity. It focuses on why cybersecurity is important, recent threats to cybersecurity, and different careers in the field.

Browse the full content of this module at <https://codehs.com/library/course/10905/module/16152>

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| Objectives / Topics Covered | <ul style="list-style-type: none"> ● Course Overview ● What is Cybersecurity? ● Impact of Cybersecurity ● The CIA Triad |
| Example Assignments / Labs | <ul style="list-style-type: none"> ● Course Overview <ul style="list-style-type: none"> ○ Do you use the Internet? ○ How do you use the Internet? ○ What kinds of information are at risk? ○ What are some different CS career fields? ○ Coding as the new literacy ○ What is this course about? ○ Example activity: <ul style="list-style-type: none"> ■ Lists steps to take to protect yourself on the Internet ■ What is something you want to know or make by the end of the course? ● What is Cybersecurity? <ul style="list-style-type: none"> ○ Cybersecurity defined ○ Why is cybersecurity important? ○ Cybersecurity in the news ○ Cybersecurity and IoT (Internet of Things) ○ How do we prevent cyber attacks? ○ Example activities: <ul style="list-style-type: none"> ■ Summarize and discuss recent cyber attacks ■ Explore a threat map to see where cyber attacks are coming from and which countries are being targeted ● Impact of Cybersecurity <ul style="list-style-type: none"> ○ Why do we care about cybersecurity? ○ What information is at risk? ○ What are the impacts of cyber attacks? <ul style="list-style-type: none"> ■ Financial impact ○ Cybersecurity workforce ○ What are current cybersecurity career? ○ Example activities: <ul style="list-style-type: none"> ■ Review resources and reflect on or discuss <ul style="list-style-type: none"> ● What information do cyber criminals steal? ● What do cyber criminals do with stolen information? ● The CIA Triad <ul style="list-style-type: none"> ○ What is the CIA triad? (confidentiality, integrity, availability) ○ What are “secure systems?” ○ What do confidentiality, integrity, and availability mean in cybersecurity? ○ Example activities: <ul style="list-style-type: none"> ■ Determine where scenarios break part of the CIA Triad |

Module 2: Digital Citizenship and Cyber Hygiene (1-2 weeks/5-10 hours)

This module includes topics on Internet etiquette and how to stay safe on the world wide web. Students will also look at the potential effects of our digital footprints, how to protect information from online risks, and the implications of cyberbullying. Finally, the module includes how to find and cite quality resources online.

Browse the full content of this module at <https://codehs.com/library/course/10905/module/16153>

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| <p>Objectives / Topics Covered</p> | <ul style="list-style-type: none"> ● Digital Footprint and Reputation ● Cyberbullying ● Internet Safety ● Privacy and Security ● Information Literacy ● Creative Credit and Copyright ● Hacking Ethics |
| <p>Example Assignments / Labs</p> | <ul style="list-style-type: none"> ● Digital Footprint and Reputation <ul style="list-style-type: none"> ○ What is a digital footprint? ○ What is your digital footprint and reputation? ○ What does it mean that the internet is public and permanent? ○ Who looks at your digital footprint and reputation? ○ What are some recommended social media guidelines? ○ How can you maintain your digital footprint? ○ What does your digital footprint say about you? ○ Example activities: <ul style="list-style-type: none"> ■ What is your digital footprint? ■ Are you going to make any changes in what you post on social media? ● Cyberbullying <ul style="list-style-type: none"> ○ What is cyberbullying? ○ What are the impacts of cyberbullying? ○ Are there cyberbullying roles? ○ What do you do if you are being bullied? ○ What do you do if you see bullying? ○ How can you be an upstander? ○ Example activities: <ul style="list-style-type: none"> ■ Explore cyberbullying scenarios: What would you do? ● Internet Safety <ul style="list-style-type: none"> ○ What are some ways to stay safe online? ○ What are some online safety guidelines? ○ Example activities: <ul style="list-style-type: none"> ■ Explore Internet safety scenarios: What would you do? ● Privacy and Security <ul style="list-style-type: none"> ○ What are data privacy and security? ○ How can you keep personal data secure and private? ○ What can happen if you data is stolen and what can you do about it? ○ Example activities: <ul style="list-style-type: none"> ■ Test out various passwords on a site ■ Explore Google's privacy policy: What do they know about you? ● Information Literacy <ul style="list-style-type: none"> ○ What is information literacy? ○ How can you do effective internet searches? ○ What are some techniques for judging source legitimacy and identifying misinformation? ○ Example activities: <ul style="list-style-type: none"> ■ Create and test search queries ■ Explore evidence for using sources ● Creative Credit and Copyright <ul style="list-style-type: none"> ○ What is copyright? |

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| | <ul style="list-style-type: none"> ○ What are the different types of copyright licenses ○ Example activities: <ul style="list-style-type: none"> ■ Create citations for sources ■ Explore image search tools ● Hacking Ethics <ul style="list-style-type: none"> ○ What are hackers? ○ Are there different kinds of hackers? (white, black, grey) ○ What are bug bounty programs? ○ Is hacking always illegal? ○ What are the consequences of illegal hacking? ○ Example activities: <ul style="list-style-type: none"> ■ Explore what penetration testing is ■ Sign ethical hacker agreement |
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Module 3: Project: PSA (1 week/5 hours)

Students create a project to apply Digital Citizenship and Cyber Hygiene content by creating a PSA.

Browse the full content of this module at <https://codehs.com/library/course/10905/module/16154>

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| Objectives / Topics Covered | <ul style="list-style-type: none"> ● Project: PSA |
| Example Assignments / Labs | <ul style="list-style-type: none"> ● Project: Create a Public Service Announcement <ul style="list-style-type: none"> ○ Create a Public Service Announcement (PSA) to teach your peers about your selected topic in digital citizenship and cyber hygiene. You can select any of the topics covered in this module. Be creative and make it fun! You could make a video, song, poster, or slideshow. |

Module 4: System Administration (3-4 weeks/15-20 hours)

Students will compare and contrast common operating systems (Windows, Linux, OS) and explain the importance of application security. They will investigate security options and implement user accounts to enforce authentication and authorization. Students will also demonstrate how to work with basic and advanced command prompts.

Browse the full content of this module at <https://codehs.com/library/course/10905/module/16158>

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| Objectives / Topics Covered | <ul style="list-style-type: none"> ● Operating Systems ● Software and Applications ● Application Security ● Browser Configuration ● System Administration ● Command Line Interface |
| Example Assignments / Labs | <ul style="list-style-type: none"> ● Understanding Operating Systems ● Comparing Operating Systems <ul style="list-style-type: none"> ○ Installing an OS ● File Management <ul style="list-style-type: none"> ○ What Processor are you Running? ● Software Licenses ● Antivirus Software <ul style="list-style-type: none"> ○ Data Backups |

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| | <ul style="list-style-type: none"> ● Using Cache ● Popup Blockers ● User Accounts <ul style="list-style-type: none"> ○ Admin vs. Standard ● Host Security <ul style="list-style-type: none"> ○ Using a Log ● System Commands <ul style="list-style-type: none"> ○ cd, ls, mk etc ● Network Commands <ul style="list-style-type: none"> ○ ipconfig, netstat etc |
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Module 5: Software Security (3-4 weeks/15-20 hours)

In this module, students will learn what happens when running a web application and how to look inside web apps using developer tools, source code, and more. They will learn basic SQL and common attacks like SQLi. Students will also be able to recommend solutions for flawed security systems.

Browse the full content of this module at <https://codehs.com/library/course/10905/module/16159>

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| <p>Objectives / Topics Covered</p> | <ul style="list-style-type: none"> ● Inside Web Applications ● Developer Tools ● The Value of Data ● SQL Overview <ul style="list-style-type: none"> ○ What is SQL? ○ Structuring Data in SQL ○ Basic Querying in SQL ○ Filtering Queries in SQL ● Clients, Servers, Databases ● Common Security Problems ● SQL Injection <ul style="list-style-type: none"> ○ SQLi Overview ○ Types of SQLi ○ Preventing SQLi |
| <p>Example Assignments / Labs</p> | <ul style="list-style-type: none"> ● Inside Web Applications <ul style="list-style-type: none"> ○ View page source (images, navigation and page layout, stylesheets, JavaScript, minified code) ○ Example activities: <ul style="list-style-type: none"> ■ View page source scavenger hunt ■ Getting started with OWASP ● Developer Tools <ul style="list-style-type: none"> ○ Use the inspect tools to look more deeply inside of web apps ○ How does view page source compare to inspect in terms of information about the site / app? ○ Example activities: <ul style="list-style-type: none"> ■ Practice using the Chrome developer tools ■ Change a favorite site using the Chrome developer tools on your end only. Take a screenshot of your change. ● Data Visualizations ● Design a Survey ● SQL Overview <ul style="list-style-type: none"> ○ What is SQL? |

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| | <ul style="list-style-type: none"> ○ How do we structuring data using SQL? ○ How do we query databases using SQL? ○ Example activities: <ul style="list-style-type: none"> ■ Use the SELECT statement to query a database ■ Use the WHERE clause to query a database ● Clients, Servers, Databases ● Common Security Problems <ul style="list-style-type: none"> ○ What is the “Fortification Principle”? ○ What are some tips about HTTP vs. HTTPS, password fields and CAPTCHA that can help us to navigate more securely on the Web? ● SQL Injection <ul style="list-style-type: none"> ○ SQLi Overview <ul style="list-style-type: none"> ■ What is SQLi? ■ Why is SQLi a problem? ■ What happens during a SQLi attack? ■ What is the the fallout of a SQLi attack? ■ How does SQLi work? ■ How do hackers use SQL in a SQLi? ○ What are the types of SQLi (error-based, union-based, blind) <ul style="list-style-type: none"> ■ What is the underlying SQL behind the scenes that hackers may be trying to hack? ○ How to we mitigate or prevent SQLi? <ul style="list-style-type: none"> ■ What are the OWASP recommendations? ■ How can we tell if our code is vulnerable? ○ Example activities: <ul style="list-style-type: none"> ■ Discuss the Equifax SQL injection attack ■ Practice basic SQLi on a safe site ■ Research SQLi prevention |
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Module 6: Project: Security Assessment Report (1 week/5 hours)

Students complete a project that has them test a website for vulnerabilities and write a security assessment report based on their findings.

Browse the full content of this module at <https://codehs.com/library/course/10905/module/16160>

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| Objectives / Topics Covered | <ul style="list-style-type: none"> ● Project: Security Assessment Report |
| Example Assignments / Labs | <ul style="list-style-type: none"> ● Project: Security Assessment Report <ul style="list-style-type: none"> ○ SQLi Testing ○ Create a Security Assessment Report ○ Project Reflection |

Module 7: Project: Put it in Writing! (2-3 weeks/10-15 hours)

In this project, students will develop a training policy that informs employees on matters of network security and details the company policy on preventative measures employees should take.

Browse the full content of this module at <https://codehs.com/library/course/10905/module/16177>

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| Objectives / Topics Covered | <ul style="list-style-type: none"> ● User Training ● Incident Response Plans |
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| | <ul style="list-style-type: none"> ● Data Policy and Privacy ● Change Management |
| Example Assignments / Labs | <ul style="list-style-type: none"> ● Develop a training policy that informs employees on matters of network security. ● Create an Incidence Response Plan. ● Develop a strong data policy for a company. ● Develop a change management plan to ensure that the new policy is adopted and implemented by the team effectively. |

Module 8: The ABCs of Cryptography (1-2 weeks/5-10 hours)

In this module, students will dive into the history of cryptography systems, the motivation behind using encryption systems, and basic cryptography systems. Additionally, they will explore topics on how to use cryptography, cryptology, and cryptanalysis to decode a message without the use of a key.

Browse the full content of this module at <https://codehs.com/library/course/10905/module/16871>

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| Objectives / Topics Covered | <ul style="list-style-type: none"> ● Cryptography, Cryptology, Cryptanalysis ● History of Cryptography ● Why do we Need to Encrypt Data? ● Basic Cryptography Systems: Caesar Cipher ● Basic Cryptography Systems: Cracking the Caesar Cipher ● Basic Cryptography Systems: Vigenère Cipher |
| Example Assignments / Labs | <ul style="list-style-type: none"> ● Cryptography, Cryptology, Cryptanalysis <ul style="list-style-type: none"> ○ Why do we need some secrecy in our transparent information age? ○ Explain general encryption with data, keys ○ Example activities: <ul style="list-style-type: none"> ■ Video and discussion on securing the cloud ■ Passing notes in class (offline activity) ● History of Cryptography <ul style="list-style-type: none"> ○ Why do we encrypt? ○ What are some classic encryption techniques? ○ What is the flaw in substitution ciphers? ○ What was The Enigma during WW2? ○ What is modern cryptography and how has cryptography changed over time? ○ What is 256-bit key encryption and how does this help cryptography overall? ○ Example activities: <ul style="list-style-type: none"> ■ How did the Enigma work? ● Why do we Need to Encrypt Data? <ul style="list-style-type: none"> ○ Explore the CIA Triad and encryption ○ Example activities: <ul style="list-style-type: none"> ■ Telephone game with math (offline) ■ Modulo math activity sheet ● Basic Cryptography Systems: Caesar Cipher <ul style="list-style-type: none"> ○ Explore examples of the Caesar cipher ○ Example activities: <ul style="list-style-type: none"> ■ Practice with a Caesar Cipher JavaScript program ■ Modify the program to create the decrypting Caesar program ● Basic Cryptography Systems: Cracking the Caesar Cipher |

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| | <ul style="list-style-type: none"> ○ How do we solve the Caesar Cipher with brute force and using letter frequency analysis? ○ Example activities: <ul style="list-style-type: none"> ■ Practice cracking Caesar Cipher with brute force ■ Practice cracking Caesar Cipher with letter frequency ● Basic Cryptography Systems: Vigenère Cipher <ul style="list-style-type: none"> ○ Explore examples of the Vigenère Cipher ○ Example activities: <ul style="list-style-type: none"> ■ Practice with a Vigenère Cipher JavaScript program |
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Module 9: Networking Fundamentals (3 weeks/15 hours)

This module explores the structure and design of the internet and networks, and how this design affects the reliability of network communication, the security of data, and personal privacy. Students will learn how the Internet connects computers all over the world through the use of networking protocols.

Browse the full content of this module at <https://codehs.com/library/course/10905/module/16161>

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| Objectives / Topics Covered | <ul style="list-style-type: none"> ● Introduction to the Internet ● Notational Systems ● Data Representation ● Internet Hardware ● Internet Addresses ● Domain Name System (DNS) ● Routing ● Packets and Protocols ● The Internet and Cybersecurity ● Impact of the Internet |
| Example Assignments / Labs | <ul style="list-style-type: none"> ● Introduction to the internet <ul style="list-style-type: none"> ○ What is the Internet? How does it work? What have been its impact on society? ○ Why do we need protocols for the Internet? ○ Example Activity <ul style="list-style-type: none"> ■ Explore the different levels of the internet. ● Decimal to Binary ● Hexadecimal ● Bits to ASCII <ul style="list-style-type: none"> ○ Hello World in Bits ● Internet hardware <ul style="list-style-type: none"> ○ Vocabulary: bandwidth, bitrate, latency ○ Why are protocols so important? ○ How do we send data over the Internet? ○ Example Activities <ul style="list-style-type: none"> ■ Explore how data is able to be transmitted across the ocean by using underwater cables ■ Explore the role of simple and complex networks and routers ● Internet Addresses <ul style="list-style-type: none"> ○ Vocabulary: Internet Protocol (IP) ○ How do IP addresses compare to postal addresses? ○ How IP addresses work? ○ Example Activities |

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| | <ul style="list-style-type: none"> <ul style="list-style-type: none"> ■ Explore the differences between IPv4 and IPv6. Why are we running out of addresses? ■ Trace a website request from the server, through the network, and to your computer ● Domain Name System (DNS) <ul style="list-style-type: none"> ○ How does DNS help with sending digital information and IP addresses? ○ Example Activities <ul style="list-style-type: none"> ■ Explore the process of how requesting a web resource works ● Routing <ul style="list-style-type: none"> ○ How is routing used to send messages / data? ○ Why is redundancy a good thing for the Internet? (fault tolerant) ● Packets and Protocols <ul style="list-style-type: none"> ○ How data is transmitted? ○ How are internet packets able to find their way to your computer? ○ Example Activities: <ul style="list-style-type: none"> ■ Explain in your own words how a request from your computer travels through the various levels of servers to reach and return the correct webpage and resources? ■ As a class, create a protocol that will allow one classmate to send another classmate a note, without the need for talking to each other. ○ What are the standard protocols for the Internet and how do they work? (TCP/IP, HTTP) ● The Internet and Cybersecurity <ul style="list-style-type: none"> ○ What are cybercrime and cyberwarfare? ○ How do we network attacks? (certificate authorities, public key encryption) |
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Module 10: IT Infrastructure (2 weeks/10 hours)

Students will learn about the physical elements of computers and networking such as motherboards, RAM, routers, and the use of port numbers, ethernet, and wireless devices.

Browse the full content of this module at <https://codehs.com/library/course/10905/module/16162>

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| <p>Objectives / Topics Covered</p> | <ul style="list-style-type: none"> ● Internal Components of a Computer ● Peripheral Devices ● Network Devices ● Storage and Network Options ● Network Communication ● Network Management |
| <p>Example Assignments / Labs</p> | <ul style="list-style-type: none"> ● Different Types of CPU ● RAM vs. Hard Drive ● Wireless Internet Connections <ul style="list-style-type: none"> ○ Speed Test ● Security of Cloud Storage ● Ethernet Standards ● Setting Up a Firewall <ul style="list-style-type: none"> ○ Establish Firewall Rules ● SSH Logs |

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| | <ul style="list-style-type: none"> ○ Reading Logs |
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Module 11: Project: Troubleshooting Project (1 week/5 hours)

Students will explore the troubleshooting methodology and utilize it to solve sample IT support issues.

Browse the full content of this module at <https://codehs.com/library/course/10905/module/16163>

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| Objectives / Topics Covered | <ul style="list-style-type: none"> ● Troubleshooting Methodology <ul style="list-style-type: none"> ○ Identify the problem ○ Research past solutions ○ Establish a theory ○ Test the theory ○ Establish a plan of action ○ Implement the solution ○ Verify functionality ○ Document findings |
| Example Assignments / Labs | <ul style="list-style-type: none"> ● Troubleshooting: In this project, students will learn more about each step of the troubleshooting methodology and use these steps to repair and improve faulty network systems. <ul style="list-style-type: none"> ○ Poor Signal Strength ○ Interference |

Module 12: Project: IT Professional (2 weeks/10 hours)

In this project, students will explore cybersecurity career pathways and build skills that will be needed within these fields such as communication.

Browse the full content of this module at <https://codehs.com/library/course/10905/module/16180>

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| Objectives / Topics Covered | <ul style="list-style-type: none"> ● Cybersecurity Career Pathways ● Customer Service and Communication ● Contributing to a Knowledge Base ● Creating an Instructional Video |
| Example Assignments / Labs | <ul style="list-style-type: none"> ● Act it out! Pair up with a partner and create a short script of a customer support scenario based on a common mobile device issue. ● Write a KB Article: Create an internal knowledge base article that will be shared with other technicians. ● Star in a Video! Create a 2-5 minute video tutorial based on a common mobile device issue |

Module 13: Risk Management (4 weeks/20 hours)

Students will demonstrate skills in conducting vulnerability scans and recognizing vulnerabilities in security systems. They will conduct a security audit and examine port scanning, packet sniffing, and proxy servers to discover exploits in a system. Students will recommend security measures to mitigate the vulnerabilities.

Browse the full content of this module at <https://codehs.com/library/course/10905/module/16179>

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| Objectives / Topics Covered | <ul style="list-style-type: none"> ● Identifying Risks ● Assessing Risks ● Risk Response |
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| <p>Example Assignments / Labs</p> | <ul style="list-style-type: none"> ● Penetration Testing <ul style="list-style-type: none"> ● Identifying Risks <ul style="list-style-type: none"> ○ What are the steps of a risk assessment? ○ What potential risks can be checked by a vulnerability scan? ○ How is packet sniffing and password cracking used in a legal manner? ○ Example Activity: <ul style="list-style-type: none"> ■ What information can be determined by an IP address? ■ Create a “story” using the data shown of what was happening during this packet transfer. ■ Why is past data important in trying to access how to best set up a cyber defense system for the present? ● Assessing Risks <ul style="list-style-type: none"> ○ What is a race condition? ○ What is error handling and input handling? Why is input validation important? ○ What is buffer overflow and integer overflow? ○ Example Activity: <ul style="list-style-type: none"> ■ Draft an argument that insists upon the importance of upgrading a system that has reached its end-of-life. ■ Read a scenario and access the level of risk. ■ Examine (and fix) poor input and error handling. ● Risk Response <ul style="list-style-type: none"> ○ What are some risk response strategies? ○ How do you calculate the SLE and ALE of a threat event? ○ How do you effectively and efficiently mitigate risk? ○ Example activity: <ul style="list-style-type: none"> ■ Read a sample assessment report. What types of methods did the assessors use to collect data? Do you feel this report provides you with sufficient information to determine priorities and next steps? ■ What role might chaos engineering play in risk assessment and response? ● Penetration Testing <ul style="list-style-type: none"> ○ What are the stages of penetration testing? ○ What tools are used in passive reconnaissance? ○ What is an escalation of privilege? ○ Example activity: <ul style="list-style-type: none"> ■ |
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Supplementary Unit Guide:

These units can be used during the course for added practice or after the course has been completed for further review.

| Supplementary Unit | Prerequisite/Recommended Unit(s) | # of activities |
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| <p><i>Cryptocurrency</i></p> <ul style="list-style-type: none"> - Blockchain - Hashing - Proof of Work - Cryptocurrencies - Bitcoin | <p>No prerequisites</p> | <p>62</p> |

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| <p><i>SQL Part II: The SQL</i></p> <ul style="list-style-type: none"> - Filtering - Ordering - Renaming - Joining | Software Security | 35 |
| <p><i>Web Development</i></p> <ul style="list-style-type: none"> - HTML - Formatting Text - Links, Images, Lists, Tables - CSS by Tag, Class, ID | No prerequisites | 75 |
| <p><i>Midterm</i></p> | <p>Modules Covered:</p> <ul style="list-style-type: none"> ● What is Cybersecurity ● Digital Citizenship and Cyber Hygiene ● The ABCs of Cryptography | 1 |
| <p><i>Final</i></p> | <p>Modules Covered:</p> <ul style="list-style-type: none"> ● What is Cybersecurity? ● Digital Citizenship and Cyber Hygiene ● The ABCs of Cryptography ● Software Security ● Networking Fundamentals | 1 |
| <p><i>Final Course Project</i></p> | <p>Choose Your Own Adventure</p> <ul style="list-style-type: none"> ● Research ● Choose Target Audience ● Draft Presentation ● Draft a Flyer | 4 |