Eureka College Cybersecurity Impact Bootcamp

Accelerate Your Cyber Career in Just 24 Weeks

The Eureka College Cybersecurity Impact Bootcamp, offered in partnership with ThriveDX, is an accelerated training program designed to successfully prepare learners with little to no background in information technology (IT) for entry-level jobs in cybersecurity—one of the most in-demand technology fields.

Delivered remotely through virtual classes, our bootcamp enables learners to gain the job-ready skills they need to enter the growing cybersecurity industry.

Overview

Bootcamp Version	Flex (Self-Paced)	Facilitator-Led (Live Sessions)
Prerequisite	Intro to Cyber module | About 7-10 hours to complete	
Duration	24 Weeks | 480 Hours	
Schedule	1 x optional session with the facilitator per week	2 x 4-hour mandatory sessions with the facilitator per week
Price	**$6,500** Payment Plans & Funding Available	
Program Eligibility	18 years +, HS Diploma, GED or equivalent	
Industry Alignment	Aligned with the National Initiative for Cybersecurity Education	
Opportunity Assessment	Nearly 500,000 Cybersecurity Positions Unfilled in the U.S.* * Source: Cyberseek.org	

Methodology

The Eureka College Cybersecurity Impact Bootcamp aims to train students to enter the cybersecurity industry using an accelerated, hands-on model. Our learning methodology focuses on teaching the specific skills required for success. This is accomplished with:
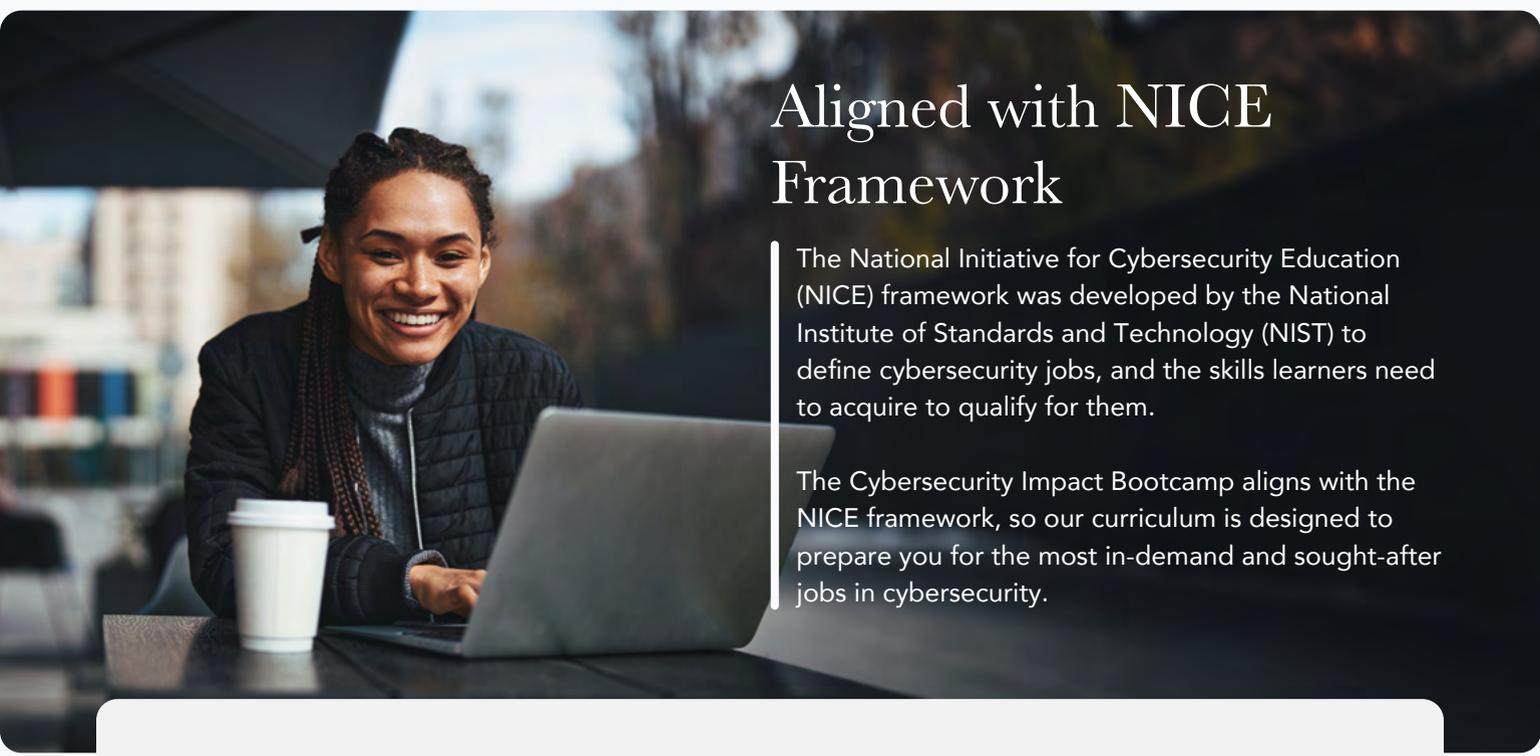
Practical and theoretical knowledge delivered through over 100 hands-on labs and real-world scenarios.

Technical skills, frameworks, and tools taught through hands-on exercises in a safe virtual environment.

Essential career-focused and soft-skills training–from teamwork to interview prep–embedded throughout the program.

Aligned with NICE Framework

The National Initiative for Cybersecurity Education (NICE) framework was developed by the National Institute of Standards and Technology (NIST) to define cybersecurity jobs, and the skills learners need to acquire to qualify for them.

The Cybersecurity Impact Bootcamp aligns with the NICE framework, so our curriculum is designed to prepare you for the most in-demand and sought-after jobs in cybersecurity.

Upon completion, learners can expect to qualify for entry-level roles such as:

Cyber Defense Analyst

Cyber Infrastructure Support Specialist

Cyber Forensics Analyst

Network Operations Specialist

Cyber Incident Responder

Bootcamp Structure

	Learner Outcome	Courses
Intro to Cyber	Learn the basics of cybersecurity and discover the different roles in the field. Review operating systems, networks, and the fundamentals of mitigating security risks.	
Foundational Courses	During the first part of the program, learners cover the most common vulnerabilities, risks, and threats in cybersecurity, as well as the fundamentals of networking and network security.	Bootcamp Introduction Network Administration Cybersecurity Fundamentals Network and Application Security Incident Handling
Midterm	After the first part of the bootcamp, learners take a midterm exam. They are expected to achieve a grade of 60% to pass.	
Advanced Courses	During the second part of the program, learners dive deeper into advanced cybersecurity topics and acquire skills pertaining to different areas of specialization.	Forensics Malware Analysis Ethical Hacking and Incident Response Secure Design Principles Risk Management Threat Intelligence
Final Assessment	Learners complete several final scenarios and a cumulative final exam during the last course. They are expected to achieve an overall grade of 60% to earn a certificate of completion and feel prepared to sit for the CompTIA® Security+ certification.	
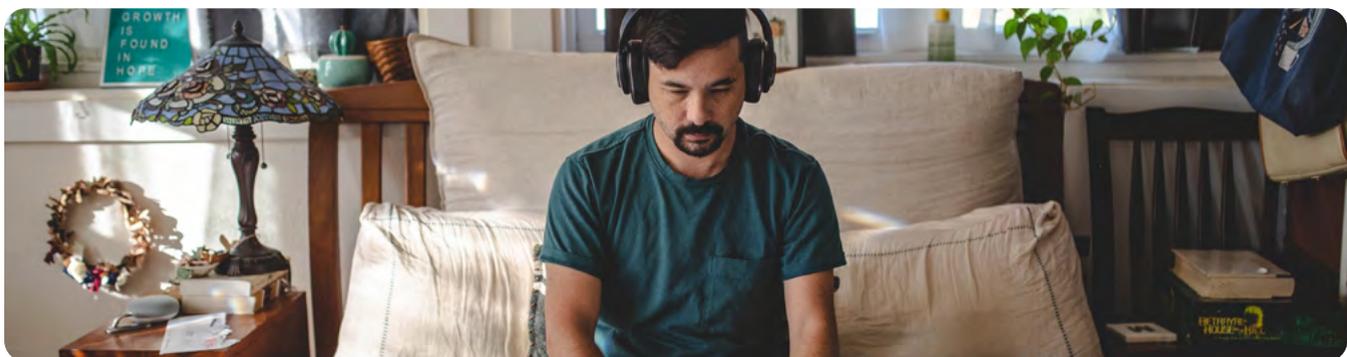
Bootcamp Syllabus

Intro to Cyber

Prior to the start of the bootcamp, participants familiarize themselves with the platform and learn the basics of cybersecurity, including malware, the OWASP Top 10, risk management, and career paths. The prework module covers operating systems, networks, and fundamental cybersecurity concepts.

Topics Covered:

» Overview of the Cybersecurity Field, Industry Challenges, and Why a Career in This Field Is a Wise Choice
» Computer Fundamentals, Operating Systems (Windows, Linux), and Command Line Utilities
» Computer Networks, the OSI Model, and Main Network Protocols
» Attackers and APTs
» MITRE ATT&CK Framework Tactics and Techniques

TOOLS: Wireshark, Putty

01 | Bootcamp Introduction

The Bootcamp Introduction provides learners with the tools required to make the bootcamp an enjoyable and efficient learning experience. During this course, they learn how the program is structured as well as the basics of computers.

Topics Covered:

» Overview of the Bootcamp and Cybersecurity Industry
» Cybersecurity Career Paths

02 | Network Administration

This course dives even deeper and focuses on designing, configuring, and troubleshooting networks. Learners acquire the necessary skills for running and monitoring a network in an insightful manner.

Topics Covered:

» Network Configuration – LAN, WAN
» Segmentations, VLANs, and Subnetting
» Network Mapping Tools
» Troubleshooting and Monitoring Networks
» Network Devices – Switches, Routers
» System Administration

Cisco Packet Tracer, Nmap, Windows PowerShell

03 | Cybersecurity Fundamentals

This course covers what cybersecurity is and how organizations apply it. Learners acquire knowledge about vulnerabilities, exploits, and threats. They also explore different types of attackers, their motivations, capabilities, strategies, and the kinds of malware used to target their victims.

Topics Covered:

» Most Common Vulnerabilities, Risks, and Threats
» The Main Concepts in Cybersecurity
» Types of Malware and Attackers
» NIST & International Cybersecurity Framework
» Most Common Cyberattacks
» Famous Cyber Incidents in the Industry

04 | Network and Application Security

In this course, learners acquire knowledge about network and application security defense methodologies and construction of secure network architectures. Learners will understand how to detect and eventually block malicious actors from carrying out cyberattacks and crimes.

Topics Covered:

» Security Tools–Firewalls, Antivirus, IDS/IPS, SIEM, DLP, EDR
» Honeypots and Cyber Traps
» Cryptography–Symmetric vs. Asymmetric Keys
» Encryption/Decryption, Hash Functions
» Security Architecture
» Access Control Methods, Multi-Factor Authentication, Authentication Protocols

TOOLS: Kali Linux, Splunk, Snort IDS, Active Directory, Nmap, OpenVPN, Windows Firewall, Linux, Iptables

05 | Incident Handling

This course teaches learners about the most common cyberattacks, how they work, their impact, and how to detect them. Then, they practice detection and analysis of incidents in security applications and practice the role of a cybersecurity analyst in real life.

Topics Covered:

» Types of Attacks in the Web, Domain, & Malware Areas
» Practicing the Role of the SOC Analyst by Detecting Alerts and Analyzing Alerts and Incidents
» Analyzing Malicious Indicators and Documenting the Findings
» Group and Individual Incident Report Writing

TOOLS: Splunk, In-House SIEM, Wazhu, VirusTotal, Powershell, Wireshark

06 | Forensics

In this course, learners access digital forensic processes for analyzing threats in digital devices. This includes identification, recovery, investigation, and validation of digital evidence in computers and other media devices.

Topics Covered:

» Computer Memory Forensics, Memory Dump Analysis
» FTK Imager, Autopsy, Redline, and RAM capturing
» Digital Evidence Acquisition Methodologies
» Registry Forensics
» Windows Timeline Analysis and Data Recovery
» Network Forensics, Anti-Forensics, and Steganography

Volatility Framework, FTK Imager, Autopsy, NetworkMiner, Wireshark, OpenStego, ShellBags Explorer, winmd5free, Magnet RAM Capture, Redline, HxD

07 | Malware Analysis

Learners acquire different techniques for analyzing malicious software and understanding its behavior. This is achieved using several malware analysis methods, such as reverse engineering, binary analysis, and obfuscation detection, as well as by analyzing real-life malware samples.

Topics Covered:

» Dynamic Malware Analysis, Reverse Engineering, and Malware Obfuscation
» Fileless Malware Analysis
» Containment, Eradication, and Recovery Malware Stages
» Analysis Using Sysinternals

TOOLS: Procexp, Procmon, Autoruns, TCPView, PuTTY, ExeInfo PE, ProcDOT, HashCalc, FileAlyzer, PDFStreamDumper, HxD, Wireshark, UPX

08 | Ethical Hacking and Incident Response

In this course, learners perform cyberattacks and practice relevant response methodologies. They overview identifying cybersecurity breaches, insider/outsider threats, incident response life cycles, performing relevant assessments, and developing protection plans.

Topics Covered:

» Ethical Hacking Processes and Methodologies
» Network Hacking, Reconnaissance, Google Hacking, and Locating Attack Vectors
» Exploitation Techniques
» Web Application Hacking, OWASP Top 10 – XSS, SQL Injection, Manual and Automated Attacks
» Post Incident Activity

TOOLS: Metasploit, SQLMap, Nmap

9 | Secure Design Principles

This course exposes learners to trend analysis and how to perform it. They become familiar with the newest cybersecurity trends and threats and learn cybersecurity design best practices, as well as how to assess and detect security design flaws.

Topics Covered:

» Trend Analysis
» Artificial Intelligence in Cybersecurity
» Zero-Trust Policy
» Best Detection Methodologies
» Incident Impact Mitigation

10 | Risk Management

In today's world, almost any action can become a potential risk. In this course, learners study risk management and related methodologies and processes that assist in effectively managing such risks – while understanding that not all risks can be eliminated immediately.

Topics Covered:

» Risk Management Processes
» Analyzing, Prioritizing, Evaluating, and Monitoring Severity of Internal and External Risks
» Risk Management Policies, Procedures, Standards, and Guidelines
» Security Models

11 | Threat Intelligence

One of the ways to protect your organization is to know your enemy. In this course, learners discover different methods, processes, techniques, and tools involved in gathering intelligence about potential threats such as hackers and attack vectors.

Topics Covered:

» Threat Intelligence Cycle Methodology and Industry Implementation
» Google Hacking – Operators, Finding Sensitive Data, Directory Listing, Devices and Hardware
» Dark Web and Dark Market Investigation
» Online Anonymity using Metadata, Google Cache, VPN and Tor
» Trend Analysis, Basic Excel Data Analysis
» Industrial Tool Practice in Real Environments

TOOLS: ThriveDX Security Awareness Training (Formerly Lucy)

12 | Final Scenarios and Interview Prep

The final course includes real-life scenarios of cybersecurity incidents and a final exam covering all the content learned during the bootcamp. Learners present group projects which were worked on throughout the course. They also review technical and soft-skill preparation for job interviews.

Included in Our Bootcamp

Hands-on Skills Training

Learn job-ready skills with 60+ unique labs and 100+ different exercises. Technical skills, frameworks, and tools are taught through hands-on exercises in a safe virtual environment.

Industry Leading Certifications

Curriculum is aligned with CompTIA® Security+ certification.

Flexible Learning

An online platform allows learners the flexibility to study and practice while balancing their current commitments.

Accelerated Program

The accelerated learning methodology and streamlined curriculum focus on teaching the specific skills needed to hit the ground running in the cyber industry.

Career Services and Support

A dedicated team of career success professionals provides uniquely personalized guidance and support throughout the job-seeking process. Upon completion, learners also connect to a global alumni network and community.

Seize this opportunity to learn the skills you need to start the career of your dreams.

The next class is starting soon. Contact Eureka College today at **309-467-6896** to learn more about getting started.

Located in Eureka, Illinois, and chartered in 1855, Eureka College cultivates excellence in learning, service and leadership while providing students uniquely personalized and custom educational opportunities. Originally founded by abolitionist members of the Christian Church (Disciples of Christ), Eureka College holds the unique distinction of being the first college in Illinois and only the third in the nation to admit men and women on an equal basis. The college, which is located on nearly 70 wooded acres in central Illinois, is the smallest of only 23 colleges and universities to ever award a bachelor's degree to a future President of the United States.

EUREKA COLLEGE

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