

Cybersecurity Certificate



Be the front line of digital defense: safeguard networks, systems, and data.

Cybersecurity plays a critical role in protecting today's digital infrastructure. Whether it's stopping malware, securing systems, or ensuring compliance, trained professionals are essential across all industries. The **Cybersecurity Certificate** from **Columbus State Community College** equips you with foundational and advanced skills to protect organizations from evolving cyber threats.

This flexible, noncredit, cohort-based program combines instructor-led virtual sessions with hands-on labs and real-world projects. Upon completion, you'll be prepared for the **ISC2 Systems Security Certified Practitioner (SSCP)** certification exam.

Why Choose This Program?

Industry-focused training: Build a skillset aligned to the SSCP certification—highly valued by employers.

Comprehensive coverage: Go beyond basics with foundation learning in SQL, Linux, Python, networking, and cybersecurity principles.

Exam prep: Apply your learning to hands-on scenarios and prepare to take the SSCP exam.

Supportive learning environment: Cohort-based progression, access to instructors, and collaborative projects modeled on enterprise practices.

What You'll Learn

Master essential cybersecurity competencies through a progression of foundation and core courses.

- Querying databases using SQL
- Managing and protecting Linux systems
- Understanding networking fundamentals and secure communication protocols
- Scripting with Python for automation and security tasks
- Implementing security controls for confidentiality, integrity, and availability
- Applying real-world defensive strategies via a culminating SSCP-aligned capstone

Who Should Enroll

This certificate is ideal for:

- IT professionals seeking a transition into cybersecurity
- Career changers looking to enter a high-growth field
- Students pursuing SSCP certification and foundational cybersecurity roles
- Individuals interested in security operations, system protection, and threat mitigation

Database & SQL Fundamentals

Linux for Security Practitioners

Networking Fundamentals

Scripting with Python

Cybersecurity SSCP Course

FOUNDATIONAL COURSES

CORE COURSE



Cybersecurity Certificate Courses

FOUNDATION COURSES

Database & SQL Fundamentals

Gain experience working with relational databases and structured query language (SQL). Learn how to design, manage, and query databases to extract and structure data. Skills taught in this course are applicable to data analysts, cybersecurity professionals, and software developers alike.

Linux for Security Practitioners*

Focus on Linux system administration from a cybersecurity perspective. Topics include user and group permissions, configuring secure services, patch management, and hardening operating systems to reduce vulnerability to attacks.

Networking Fundamentals*

Understand how networks operate and how data travels securely across them. This course covers protocols (TCP/IP, DNS, DHCP), network components, segmentation, wireless security, and introduces tools to monitor and secure traffic flow.

Scripting with Python

Learn how to use Python for data manipulation and automation. Topics include syntax, data types, loops, functions, and error handling. The course emphasizes writing clean, functional code for data preparation and analysis tasks.

*These courses are taken concurrently.

CORE COURSE

Cybersecurity SSCP Course

This course synthesizes learning from previous modules through labs, projects, and SSCP-aligned content. Students analyze threats, assess risks, implement access controls, and design system security policies. Topics include:

- Security Operations and Administration
- Risk Identification, Monitoring, and Analysis
- Incident Response and Recovery
- Network and Communications Security
- Introduction to Cryptography
- Systems and Application Security

A capstone project allows students to demonstrate practical mastery by designing and defending a secure system architecture.

SSCP exam preparation is integrated into the curriculum.

For program dates and tuition information visit csc.edu/it-workforce or email acceleratedtraining@csc.edu



Ready to Defend and Secure?

The **Cybersecurity Certificate** from Columbus State prepares you with the technical know-how, hands-on experience, and certification pathway to begin your career in cybersecurity.

Enroll today and take the first step toward your SSCP credential.