

# CYBERSECURITY PATHWAYS



## CYBERSECURITY CERTIFICATES

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BSC offers a variety of certificates designed to meet specific and unique occupational needs. Certificates can be stacked toward a diploma, associate or bachelor's degree. Choose from our hands-on Cybersecurity certificates to enhance your career and expand your skillset.

## MOBILE APPLICATION DEVELOPMENT

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The Mobile Application Development certificate program provides students with the specialized knowledge they need to enter this dynamic field. Instructors will guide students in the production of mobile applications from concept to launch in hands-on labs. Students will also learn the fundamental principles and skills necessary for a career in an industry that involves the constantly changing technology.

## COMPUTER NETWORKING

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Computer Networking courses provide students with the fundamentals of computer networking, including the practical and conceptual skills needed to enter the industry. Students will gain an understanding of basic networking, build simple local area networks, perform basic device configurations, implement IP address schemes, and configure and troubleshoot routers and switches.

## MODERN COMPUTING

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Modern Computing courses give students opportunities to gain experience installing, configuring, securing, and administering Linux network services. Instructors will guide students in cause-based incident mitigation. Students will also learn the methods, policies, and procedures needed to maintain systems availability and response.

## OFFENSIVE AND DEFENSIVE SECURITY

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Offensive and Defensive Security courses cover digital forensics, installing, configuring, and managing firewalls. Students will learn theory and extended configuration features necessary to set up traffic handling, advanced content, user identification, and next-generation firewall technologies. Students will also learn network penetration testing to apply cybersecurity defensive skills.

## SECURE PROGRAMMING

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The Secure Programming certificate program will give students a background in the Python language for computer programming. Secure programming ensures that software codes are protected from vulnerabilities, threats, or direct attacks. Students will use a structured high-level language approach to programming, with an emphasis on problem solving and design.

## SECURITY AND HACKING

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The Security and Hacking certificate program will give students practical experience using Linux. Courses expand students' knowledge of information security, which will provide them with the principles, technologies, and practices to secure computers and networks. Students will gain skills necessary to protect systems and organizations from cyber vulnerabilities and risks.

## CYBERSECURITY FUNDAMENTALS

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(Coming soon)