

CYBERSECURITY ESSENTIALS CERTIFICATE

PROGRAM CODE: 1C45788

This curriculum prepares students with necessary knowledge and skills to setup and configure software and systems to secure data, applications, networks, and end devices; monitor system, network and application logs for security breaches and respond to incidences; perform threat analysis and respond with appropriate mitigation technique, check for vulnerabilities, and perform risk assessment. It will also enhance students' chances to pursue a professional career in information security by preparing them for industry-recognized certificates such as CompTIA ITF+ and Security+, Cisco CCST Cybersecurity and Cisco CCST Networking. To earn a certificate, complete the required courses as listed with a grade of C or better. At least 50% of all course work must be completed at Cypress College. This certificate is the first level of the Cybersecurity certificate and requires a total of 11 units.

Code	Title	Units
Required courses are listed in suggested sequence: (11 units)		
CIS 190 C	IT and Cybersecurity Funds	4
CIS 230 C	Cisco Networking 1	4
CIS 195 C	Network Security	3
Total Units		11

Program Student Learning Outcomes:

OUTCOME 1: Acquire the knowledge and skills necessary for workforce preparation in the field of information security, including protecting sensitive information and information systems from unauthorized access, use, disclosure, disruption, modification, or destruction to provide integrity, confidentiality, and availability; setup and maintain security software, such as firewalls, intrusion detection and prevention systems, reconnaissance, vulnerability assessment and data protection and encryption technologies, tools and programs.

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