

CIS PROFESSIONAL CERTIFICATE IN NETWORK SECURITY

Business Division

Certificate E0721

The CIS Professional Certificate in Network Security program is designed to prepare students for a career in the computer network security industry. The certificate offers a balanced set of classes that prepare students to design, implement, manage and secure the heterogeneous corporate network. The security management courses emphasize firewall security appliances, network protocol analysis, Linux network, Snort intrusion detection, intrusion prevention, and vulnerability management. Students will acquire the skills to utilize network protocol analyzers, to troubleshoot network problems, deploy intrusion prevention systems, configure firewall security appliances and Virtual Private Network (VPN), and assess network vulnerabilities and implement countermeasures. Individual courses will help students prepare for industry certification exams such as Certify Ethical Hacker (CEH), Cisco Firewall Specialist, and Cisco IPS Specialist. Opportunities available upon completion of the certificate program include Network Security Analyst, Junior Network Security Engineer, Network Vulnerability Management, and Network Security Architect.

Required Courses

Course Prefix	Course Name	Units
CISS 21	Network Vulnerabilities and Countermeasures	3
CISS 21L	Network Vulnerabilities and Countermeasures Laboratory	0.5
CISS 23	Network Analysis, Intrusion Detection/Prevention Systems	3
CISS 23L	Network Analysis, Intrusion Detection/Prevention Systems Laboratory	0.5
CISS 25	Network Security and Firewalls	3
CISS 25L	Network Security and Firewalls Laboratory	0.5
CISS 27	Cyber Defense	1
Total Units		11.5

CIS Program Website (<http://www.mtsac.edu/cis>)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Configure and install a firewall.
- Implement a secured translation for service hosting through firewall.

Review Student Learning Outcomes (SLOs) (<http://www.mtsac.edu/instruction/outcomes/sloinfo.html>) for this program.