

Cybersecurity Technician Certificate

| Program Learning Outcomes (PLOs) | Measurable Student Learning Outcomes (MSLOs)- PLO Alignment | | | | | |
|---|---|--------|--------|--------|--------|--------|
| | CIS153 | CIS176 | CIS213 | CIS225 | CIS273 | CIS275 |
| 1. (Synthesis Level) Manage users, groups, login security, and system resources in Linux. (CSLO 2) | | | ✓ | | ✓ | |
| 2. (Analysis Level) Analyze advanced persistent threats and deploy countermeasures, and conduct risk and vulnerability assessments of planned and installed information systems. (CSLO 4) | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 3. (Evaluation Level) Interpret Networking laws and regulations in which businesses operate, including local, regional, and global markets. (CSLO 1) | ✓ | | | ✓ | | ✓ |
| 4. (Analysis Level) Determine which hardware, software, and data to gather and secure as evidence in a criminal case (CSLO 3) | | ✓ | | ✓ | | |
| 5. (Synthesis Level) Create and implement a network forensic plan. (CSLO 4) | | | ✓ | | ✓ | ✓ |
| 6. (Application Level) Demonstrate appropriate responses to various attack vectors and methodologies.(CSLO 3) | ✓ | ✓ | ✓ | ✓ | ✓ | |

| Computer Technician Certificate | | | | | | |
|--|---|--------|--------|--------|--------|--------|
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| | CIS115 | CIS119 | CIS120 | CIS121 | CIS123 | CIS130 |
| 1. (Application Level) Install and configure Windows operating systems and maintain computer hardware components. (CSLO 2) | | ✓ | ✓ | ✓ | | |
| 2. (Application Level) Manage users, groups, login security, and system resources. (CSLO 2) | | ✓ | | ✓ | | |
| 3. (Analysis Level) Identify, Configure, and troubleshoot devices. (CSLO 4) | | ✓ | | ✓ | | |
| 4.(Application Level)Configure, troubleshoot, and secure network devices. | | ✓ | | ✓ | | ✓ |
| 5.(Creation Level) Develop, test, and troubleshoot basic interfaces. (CSLO 4) | | | ✓ | | ✓ | |
| 6.(Application Level) Apply the basics of customer and team communications needed to solve problems. (CSLO 3) | ✓ | | | | ✓ | |
| 7.(Understanding Level) Understand individual and team dynamics and workflows to efficiently complete tasks.(CSLO 3) | ✓ | | | | | |

Amazon Web Services Certificate

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|--|---|--------|--------|--------|--------|--------|
| | CIS121 | CIS123 | CIS130 | CIS210 | CIS211 | CIS263 |
| 1. (Analyze Level) Manage, secure, and scale compute instances, configurations, and databases. (CSLO 4) | | ✓ | | | | ✓ |
| 2. (Apply Level) Build virtual private networks. (CSLO 4) | | ✓ | | | ✓ | ✓ |
| 3. (Create Level) Create and configure automated and repeatable deployments. (CSLO 2) | | | | | | ✓ |
| 4. (Evaluation Level) Analyze the marketing of cloud computing solutions and make recommendations. (CSLO 4) | | ✓ | | ✓ | | |
| 5. (Evaluation Level) Explore emerging Cloud Computing technologies and evaluate their possible impact on the industry. (CSLO 4) | | | | ✓ | ✓ | |
| 6. (Application Level) Use system utilities to effectively control the system. (CSLO 2,4) | ✓ | | | | ✓ | ✓ |
| 7. (Synthesis Level) Configure a network interface to use TCP/IP and TCP/IP routing. (CSLO 3) | | | | | | |
| 8. (Synthesis Level) Plan and create network file systems in Linux. (CSLO 4) | | | | | | |
| 9. (Create Level) Build and deploy secure applications in the AWS Cloud (CSLO 2) | | | | | ✓ | |