

# CLOUD AND NETWORK CYBER SECURITY ADMINISTRATION (AS DEGREE S0884)

## Business Division

### Degree S0884

Cloud and Network Cyber Security Administration (CNCSA) is a two-year program leading to the Associate in Science (A.S.) degree. It prepares individuals for employment in the computer/information technology field in such areas as Cloud and network management and Cyber Security Administration. The curriculum is intended to help students develop skills to design, administer and manage the heterogeneous private corporate and public Cloud network with Cyber security emphasis. The courses examine and illustrate Cloud and network Cyber security with various industry-leading network systems. Individual courses will assist students in preparing for related industry certification exams. The main objective of the degree is to prepare students for employment following graduation. Students wishing a bachelor's degree should meet with a counselor or advisor for related CSU or UC bachelor's degree programs.

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

- Administer and install virtual operating system on private or public network.
- Manage and implement network and Cyber security.

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

| Course Prefix   | Course Name  | Units        |
|---|--|--------------|
| <b>Required Courses</b>   |  |              |
| CISN 11   | Telecommunications Networking  | 3            |
| CISN 11L  | Telecommunications/Networking Laboratory   | 0.5          |
| CISN 24   | Window Server Network and Security Administration                                | 3            |
| CISN 24L  | Window Server Network and Security Administration Laboratory                     | 0.5          |
| CISN 51   | Cisco CCNA Networking and Routing  | 3            |
| CISN 51L  | Cisco CCNA Networking and Routing Laboratory                                     | 0.5          |
| CISS 21   | Network Vulnerabilities and Countermeasures                                      | 3            |
| CISS 21L  | Network Vulnerabilities and Countermeasures Laboratory                           | 0.5          |
| CISS 23   | Cyber, Cloud Network Intrusion Detection/Prevention Systems (IDS/IPS)            | 3            |
| CISS 23L  | Cyber, Cloud Network Intrusion Detection/Prevention Systems (IDS/IPS) Laboratory | 0.5          |
| CISS 25   | Cyber, Cloud Network Security and Firewalls                                      | 3            |
| CISS 25L  | Cyber, Cloud Network Security and Firewalls Laboratory                           | 0.5          |
| CISS 29   | CNASM Service Learning   | 1            |
| <b>Required Electives</b>   |  |              |
| <b>Choose one lecture or lecture/lab combination from the following courses</b> |  | <b>1-4</b>   |
| CISN 21   | Windows Operating System   |              |
| CISN 31 & 31L   | Linux Operating System and Linux Operating System Laboratory                     |              |
| CISN 34 & 34L   | Linux Networking and Security and Linux Networking and Security Laboratory       |              |
| CISS 13   | Principles of Information Systems Security                                       |              |
| CISS 15   | Operating Systems Security   |              |
| CISS 27   | Cyber Defense  |              |
| <b>Total Units</b>  |  | <b>23-26</b> |

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

## Program Learning Outcomes