

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
Required Courses		
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
Required Electives		
Choose one lecture or lecture/lab combination from the following courses		1-4
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	
Total Units		23-26

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

Program Learning Outcomes