

# CIS PROFESSIONAL IN TELECOMMUNICATIONS (CERTIFICATE M0810)

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## Business Division

### Certificate M0810

The CIS Professional in Telecommunications program is designed to prepare students for a career in the computer networking industry. The certificate offers a balanced set of classes that prepare students to design, implement and manage the heterogeneous corporate network. The network administration courses emphasize network operating systems, network infrastructure and data communications. Students will acquire the skills to install and administer a Windows network, Virtualization, Active Directory, group policy, file system security, DNS, DHCP, Cisco routers, switches, network infrastructure, access control list, Virtual LAN (VLAN) and VLAN routing. Individual courses will assist students in preparing for industry certification exams such as Network+, Microsoft MCITP and Cisco CCNA. Opportunities available upon completion of the certificate program include entry-level and mid-management positions in Network Administration.

## Required Courses

Course Prefix	Course Name	Units
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
<b>Total Units</b>		<b>10.5</b>

Guided Pathways of Study Suggested Course Sequence (<https://www.mtsac.edu/guided-pathways/pathway-results.html?pthwyvar=M0810&desc=CIS+Professional+Certificate+%28Telecommunications%29+M0810>)

## Program Learning Outcomes

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

- Configure and setup static routing.
- Able to implement VLAN and VLAN routing.

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