

Telecommunications Technology

Associate in Applied Science Degree

The two-year program will allow students to earn an Associate's Degree in Applied Science, preparing students for a career in computer systems, telecommunications, network security, and information technology as a Telecommunications technician.

Telecommunications Technicians help to install, configure, monitor, and maintain end devices operations such as PCs, servers, Cisco switches and routers, and Cisco firewall in a networking environment. Also as part of their job, they set up security encryption, on Linux, or Windows platforms, monitor and maintain the communications (voice, video or data) between different networks via optical fiber, cable, and wireless; and they manage the SAN (storage area network) or cloud network.

Students who complete the Telecommunications program will understand:

- Voice and Video over IP (Internet Protocols)
- Developing working knowledge on how computers operate.
- Installing and upgrading computer hardware and software.
- Setting up security and perform regular update maintenance over a network
- Installing and configuring virtualization software (VMware)
- Installing and configuring operating systems such as Linux, Windows
- Configuring Cisco routers, switches and firewalls

Year 1: Semester 1

Course	Course Title	Credits
TCOM 101	Data I	3
TCOM 110	Telecommunications I	4
TCOM 129	IT Essentials	3
TCOM 130	Introduction to Networking	4
ENGL 101	English Composition I	3
		17

Year 1: Semester 2

TCOM 102	Data II	3
TCOM 120	Telecommunications II	4
TCOM 131	Routing and Switching	3
TCOM 132	Scaling Networks	3
ENGL 102	English Composition II	3
		16

Year 2: Semester 1

CTIM 271	Database Concepts and Practices	3
TCOM 133	Connecting Networks	3
TCOM 201	Data III	3
TCOM 220	Telecommunications III	4
LS	Lab Science elective	4
		17

Year 2: Semester 2

CTIM 157	Introduction to Java Programming	3
TCOM 210	Data IV	3
TCOM 240	Telecommunications IV	4
	Math elective	3
HU or SS	Humanities or Social Science elective	3
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Program Notes

Math Elective

MATH 203 College Algebra or higher

Other Electives

Students choosing a lab science, humanities, or social science elective can select from the **Course Elective Guide**.

Prerequisites

Some courses may have prerequisites. Please see course descriptions or online course search for details.

Developmental Courses

Developmental courses do not satisfy graduation requirements, but they are required for those who place into them and will appear on the student's transcript. Placement into one of the following courses indicates that a student needs additional preparation before enrolling in college-level courses: *ENGL 091 Preparing for College Reading I*, *ENGL 092 Preparing for College Reading II*, *ENGL 095 Reading and Writing Seminar*, *ENGL 099 Introductory Writing*, *MATH 001-003 Prep College Math I-III*, *MATH 010 Fundamentals of Mathematics*, *MATH 101 Introductory Algebra*, and *MATH 112 Intermediate Algebra*.

A minimum of 66 credits and 20 courses is required for completion. The same course may not be used to satisfy two different course requirements.