

Network Management and IT Security



ACS – LEA.DB

Offered online

12-months program

Offered in English

Course Curriculum

45 hrs	French in the context of IT
75 hrs	Introduction to Algorithm Design
75 hrs	Integration Project
285 hrs	Internship and Pre-employment
90 hrs	IT System I
90 hrs	IT System II
60 hrs	Network I
60 hrs	Network II
75 hrs	Network Physical Security
60 hrs	Operating System I
75 hrs	Operating System II
75 hrs	Operating System III
75 hrs	Protocols and Internet Technologies
75 hrs	Scripts I
60 hrs	Scripts II
75 hrs	Server Management I
75 hrs	Server Management II
45 hrs	System Management and Validation I
45 hrs	System Management and Validation II
60 hrs	Technical Support and Training
60 hrs	Virtualization

* This program is three semesters long (12 months).

A three-week internship is carried out during the last semester. The college assists each student in their internship search.

N.B.: The College reserves the right to modify this program without advance notice.



The objective of this one-year (1 170 hours) program is to prepare students to develop their skills in workstation installation, configuration, implementation, management, and security of computer networks and systems.

The computer network technician acts as a specialist in an organization. They are responsible for the design, maintenance and optimal use of the computer network.

They manage the installation of the operating system, and configures workstations and servers. They implement effective strategies to ensure the backup of physical or cloud data and the security of the computer network.

The computer network technician provides users with the necessary technical support and is able to intervene and solve any computer problems on the network.

Software

Microsoft Windows, Windows server, VMware, Hyper-V, Linux and antivirus software.

Programming languages

Python, JavaScript, PowerShell, C#.

Protocols

DHCP, DNS, TCP/UDP, IPv4, IPv6, Proxy, VPN.

Career opportunities

As a person working in network management, you will be able to practice your profession in small, medium or large-sized companies and in all sectors, including high technology, as:

- Computer Network Technician
- Network & System Administrator
- IT Consultant
- User Support & IT Specialist
- Network Security Technician.



Certification, an added bonus

Students who wish to do so can obtain the “**Cisco Certified Network Associate**” or **CCNA certification**, as well as **Microsoft, Cisco, Dell and IBM**.

The program offered at the college prepares students for the certification exams and will help you increase your chances of becoming a certified professional.

Required equipment

Students must have a laptop (PC) with the following characteristics:

- **Windows** 10 or 11
- **Processor:** Intel I5 or I7
- **RAM Memory:** 32 GB recommended
- **Hard Drive:** 512 Gb SSD or more
- **USB:** USB 3.0
- **Wired network card** (or USB wired network card)
- **Screen:** 14” or 15”.

* Windows 10 S (limited version of Windows 10), MAC and Chromebook are not compatible. The College does not loan laptops to students. These requirements are based on our current curriculum needs. A laptop cannot be replaced by a smartphone.

Please consult our website for any changes.

We are recognized as a member of the distinguished Cisco Networking Academy. Cisco is a worldwide Networking equipment company that has developed network training that is used globally.

The program leads to several certifications that are highly recognized and required by the job market including but not limited to: CISCO and CompTIA (A+).