

Network Management and IT Security

O'Sullivan
College of Montreal



ACS – LEA.DB

Offered online

1 year

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.

With the rise of computer systems these days, as well as the arrival of artificial intelligence, IT workers are now in great demand in the market to be able to manage security network systems. The objective of this 12-month (1170 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 configure 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, such as:

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



Certification, an added bonus

The program content, the hands-on learning activities, and the industry-standard technologies of the program prepare students for a variety of in-demand certifications. Students who wish to do so can obtain the "Cisco Certified Network Associate" or CCNA « Cisco Certified Network Associate» certification, as well as CCNP «Cisco Certified Network Professional», CompTIA (A+), LPIC (Linux essentials and security essentials), Azure, IBM, Microsoft, Cisco, Dell, and more.

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

Equipment required

Students will need a computer to participate and actively engage in online courses. A computer can never be replaced by a cell phone.

Please consult our website for the most up to date requirements.

The College is a member of the prestigious Cisco Networking Academy. Cisco is a global networking equipment company that has developed several networking training courses used around the world.

The College is also a member of the global Amazon Web Services (AWS) community. AWS specializes in Cloud Computing and Cybersecurity, offering services and curriculums in high demand and highly valued by employers.

These partnerships with Cisco Networking Academy and Amazon Web Services provide students with unique, unparalleled tools and skills that will allow them to stand out in the job market.



Collège O'Sullivan de Montréal inc.

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