Computer Science 02

Computer Science Technology

Specialization in Cybersecurity and Cloud Computing.
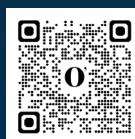
DCS–420.BO   IN PERSON   6 SEMESTERS (3 YEARS)

OFFERED IN FRENCH AND IN ENGLISH

Efficiently analyze and solve problems in an innovative way.

This specialized six-semester program (3 years - 2 670 hours) includes an **eight-week internship (270 hours) in a company**. The program is developed to equip students with the knowledge and skills required to design, configure, and manage network infrastructure and security while maintaining all IT-related operations.

The program curriculum covers various aspects of the specialization, with a focus on **network management, cybersecurity, and cloud computing**. It is well-structured which makes it easily accessible even for individuals with no prior experience.

Profile

This program is designed for individuals who are passionate about digital technology, possess an analytical problem- solving mindset, and adapt well under pressure.

Admission Requirements

Applicants must hold a Secondary School Diploma (SSD), a Diploma of Vocational Studies (DVS) or have studies deemed sufficient by the College. They must also have completed Secondary 4 Techno-Sciences Mathematics or Natural Sciences Mathematics (Math 436) or Secondary 5 Culture, Society and Technology Mathematics. (Visit website for details.)

Advantages of the Program
Why choose this program?

- The program includes an **eight-week internship with a company** during the final semester, allowing you to apply your learning in a practical setting and gain valuable work experience in the field.

- In a rapidly expanding industry , **this program positions you well for high-demand jobs** with outstanding career prospects.

- The instructors are **IT professionals** with extensive experience in the field.

- The College has **exclusive partnerships with leading technology giants (CISCO, AWS and CompTIA (A+))**, offering students unique tools and skills to earn in-demand certifications that will help them stand out in the job market.

- Students have the opportunity to participate **in cybersecurity events and forums**, such as the InCyber North America Forum, to stay updated on the latest developments in computing.

Where Does it Lead?

As a professional working in Network Management and Cybersecurity, you will have the ability to work in various company sizes
- small, medium, or large-across all sectors and domains, including high-technology industries.

Potential job titles include:
- Local NetworkAdministrator
- System Administrator
- Computer NetworkTechnician
- Networking and System administrator
- IT consultant
- User Support and IT Specialist
- Network Security Technician

Software

Students will gain experience with software including: Microsoft Windows, Windows Server, VMware, Hyper-V, Linux and antivirus programs.

Languages and protocols
- Python, Bash et PowerShell
- DHCP, DNS, TCP/UDP, IPv4, IPv6, Proxy, VPN, CCNA/CCNP (OSPF, EIGRP et BGP

Certification

Students can pursue certifications such as CCNA (Cisco Certified Network Associate), as well as certifications from Microsoft, Cisco, Dell and IBM.

The program leads to several recognized certifications in demand in the job market, including those from CISCO, AWS and CompTIA (A+).

Partnerships