



**6 SEMESTERS**  
2640 hours

**DEC**  
420.AA

Do people keep saying you were born with a computer in your hands? That you have a logical, curious and resourceful streak in your personality? Become a programmer and use your strengths to become a leader in the information technology industry. The Computer Science Technology program was developed with support from IT business experts. The program's Administrative Data Processing specialization will guide you directly into a promising career with excellent job prospects as a programmer, database designer and administrator, application analyst, IT technician and many more.

Learn to code in languages like SQL, HTML5, C++, C#, JavaScript, Java, CSS 3, and Python, the latest trend in programming language.

You'll be able to use all your best personality traits during team work, as well as school and internship projects, so you can get noticed as you're working within various groups. Skills in project management, development, operations, problem solving, adaptation, communication, agility and creativity will be just the advantages your career needs.

## Program Objectives

The program's main objectives are related to mastering methods of analyzing user needs, composing computer specifications, and learning concepts related to data modeling.

## Career Prospects

- Analyst / Programmer
- Application Analyst
- Database Administrator
- Technical Editor – Business Applications
- Computer Services Representative
- Database Creator
- Computer and Network Technician

## Admission Criteria

Have obtained a Secondary School Diploma (DES) and completed the following courses :

- Language of Instruction from Secondary V,
- Second Language from Secondary V,
- Mathematics TS or SN 5e (or Math 526 under previous regime),
- Physical Sciences from Secondary IV,
- History from Secondary IV

Have obtained a Professional Studies Diploma (DEP) and completed the following courses:

- Language of Instruction from Secondary V,
- Second Language from Secondary V,
- Mathematics TS or SN 5e (or Math 526 under previous regime)

Have obtained an equivalent education or an instruction deemed sufficient. Every case will be analysed by the college.



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## Concentration Courses

- Applied Mathematics (60 h)
- Computers Environment (60 h)
- Data Processing Basics (75 h)
- Structured Programming (90 h)
- Communication and Interfaces (45 h)
- Computer Architecture (75 h)
- Introduction to object programming (75 h)
- Applied Statistics (60 h)
- Operating systems (75 h)
- Databases (75 h)
- Advanced object-programming (60 h)
- Information System Development I (90 h)
- Advanced Databases (75 h)
- Computer Networks (75 h)
- Data Structure (75 h)
- Event Programming (90 h)
- Langue de gestion (60 h)
- Developing Databases Applications (75 h)
- Internet Programming I (75 h)
- Advanced Platform Development (60 h)
- Multimedia (60 h)
- Management Language-advanced (60 h)
- Internet Programming II (75 h)
- Information System II (75 h)
- Internship (300 h)

\* The College reserves the right to substitute certain courses.

## General Education Courses

- 3 Physical Education Courses (90 h)
- 3 Humanities Courses (150 h)
- 4 Literature Courses (240 h)
- 2 Second Language Courses (90 h)
- 2 Complementary Courses (90 h)

## Bring Your Own Device

In this program, the use of a laptop computer is mandatory. All students must come to class with their own personal laptop. Standard or student license software must be installed when requested by teachers

The following features are required for Macs and PCs:

- Processor: Intel I5 or AMD A8 compatible with VT-X virtualization
- Memory: 8 GB minimum
- Hard drive: 500 GB minimum
- Screen: 14 inches minimum
- Connectivity: USB 3.0, WIFI and NIC LAN
- You will need a USB-RJ45 adaptor if your laptop doesn't have a network jack

These specifications also apply to MacBook computers. MacBook Airs are not accepted.

Required software: Office suite

## Level

- This program leads to a Diploma of College Studies (DEC).
- Holders of a Diploma of College Studies (DEC) can either begin to work in their field or pursue university studies.

