



6 SEMESTERS  
2670 hours

DEC  
420.BP

The Computer Science Technology DEC, with a Programming option, was developed with support from the information technology business community and will propel you straight towards a promising career with excellent job prospects.

You will develop programming skills following strict product development methodology. You'll learn to work with various IT project management approaches, like scrum, to design and develop various types of applications and support/maintain the integrity of organization applications while taking into account technological advancements in the industry. Finally, you'll be able to use an object-oriented approach to analyze and develop.

You will also be able to develop various types of applications ready for installation and operation. You will have the chance to work as part of a team (industry) that integrates current project management best practices (e.g. Agile, Scrum) and uses the industry's leading tools and software (GitLab, GitHub, etc.).

## Program Objectives

You will graduate with a portfolio of achievements including complete and concrete applications. You will also gain professional experience in the industry.

## 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.

## Target Clientele

Do you have a logical, curious and resourceful streak in your personality? Use your strengths to become a leader in the information technology industry.

## 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 Secondary IV (Math 436 under the old plan) or CST Secondary V,
- 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 Secondary IV (Math 436 under the old plan) or CST Secondary V

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

**6 SEMESTERS**  
2670 hours

**DEC**  
420.BP

## Concentration Courses

- Applied Mathematics (60 h)
- Computer Tools (45 h)
- Introduction to Web Development (45 h)
- Algorithms and Programming (90 h)
- Computer Architecture (75 h)
- Object Oriented Programming concepts (90 h)
- Operating Systems and Networking (60 h)
- Web Client Development (90 h)
- Databases I (90 h)
- Information System Analysis and Modeling (90 h)
- Multi-tiers applications development (90 h)
- Databases II (60 h)
- Scripting Language (60 h)
- Web Server Applications Development I (90 h)
- Data Structures (60 h)
- Object Oriented Programming (75 h)
- Web Server Applications Development II (75 h)
- Android Mobile Development (75 h)
- iOS Mobile Development I (75 h)
- Professional Integration (60 h)
- Information Systems Implementation (75 h)
- Multiplatform Mobile Development (75 h)
- Trends in Technology (60 h)
- iOS Mobile Development II (90 h)
- Internship (255 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: Required software: Office suite

- 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 Airls are not accepted.

## Career Prospects

- Android application developer
- IOS application developer
- Mobile application developer
- Application quality assurance
- Web application developer
- Website developer (Front-end, Back-end and Full Stack)
- Web services developer
- Object-oriented application development (.Net, Java, C++)
- Application quality assurance
- IT advisor
- User interface design
- Application tester
- IT trainer

You can also further your software engineering education at the university level. Once you earn a Computer Science Technology DEC from LaSalle College, you will automatically be admitted to:

- École de technologie supérieure (ÉTS)