LaSalle College Montréal

DEC | 420.B0

Computer Science Technology Programming (profile 420BP)

LEARN MORE

Duration
3 years (6 semesters, 2670 hours)

Schedule
Full-time
Daytime

Languages of Instruction
English, French

Methods of Instruction
On-campus, Online
(Montréal et Laval)

Develop your programming skills using a precise product development methodology in the Computer Science Technology – Programming DCS. Learn different approaches to IT project management, including Scrum, to create ready-to-install and ready-to-use applications. Work as part of a team using best practices (Agile, Scrum) and key industry tools (GitLab, GitHub).

Career Prospects

Montréal's programmer employment is on the rise, spurred by:

- IT service demand,
- Mobile and app tech advancements,
- The digital shift.

In fact, a very high demand in this field prompted Québec's "Opération main-d'œuvre" in 2021.

Career Fields

- Mobile Developer (Android and IOS Application Developer, Mobile Application Developer, and Application Quality Assurance),
- Web Developer (Web Application Developer, Website Developer (Front-End, Back-End and Full Stack), and Web Services Developer),
- Object-oriented Developer (Object-oriented Application
- Development (.Net, Java, C++) and Application Quality Assurance),
- IT Professional (IT Advisor, User Interface Designer, Application Tester and IT Trainer).

Opportunities

Our unique approach incorporates real-world experience with classroom learning for hands-on, practical education.

- Collaborate with active industry professionals;
- Sharpen skills in a practical setting;
- Join our computer club to maintain connections with companies and to attend several events and workshops.

Cutting-edge Facilities and Equipment

Experiment with industry-standard equipment, software, and technology in our advanced facilities, including:

- FLEX classrooms,
- Active learning classrooms,
- Fully equipped computer lab,
- And many others!

Actively participate and collaborate with teachers using these specialized facilities, boosting your motivation and confidence.

Diploma and Accreditation

This Diploma of College Studies (DCS) is accredited by the ministère de l'Enseignement supérieur of Québec and is internationally recognized.

Holders of a Diploma of College Studies (DCS) can pursue university studies or enter the workforce directly.

Work Experience

Get sought-after practical experience with our Career Service and our **Work-Study Program** (WSP), which incorporates **two internships** into your program.

Our Computer Science Technology - Programming program also includes a **255-hour internship** as part of the curriculum.

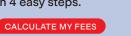# For this program, you'll need to use your own computer equipment.

SEE REQUIREMENTS

Tuition

Estimate the cost of your studies in 4 easy steps.

CALCULATE MY FEES

Admissions Criteria

Exceptions to these admission criteria may be applied.

Every application is reviewed by the College.

To be eligible for acceptance into this program, applicants are generally required to meet one of the following criteria:

- Secondary School Diploma (SSD) with completion of:
  - Mathematics TS, SN Secondary 4 or CST 5 (Math 436).
- Diploma of Vocational Studies (DVS) with completion of:
  - Language of Instruction from Secondary 5,
  - Second Language from Secondary 5,
  - Mathematics TS, SN Secondary 4 or CST 5 (Math 436).
- Equivalent education or an instruction deemed sufficient.

List of Courses

Diploma of College Studies (DCS) programs consist of:

- General education courses common to all programs,
- General education courses specific to the program,
- Complementary general education courses.

General Education Courses

College-level institutions emphasize general education that focuses on core cultural knowledge, skill development, responsible citizenship, and shared cultural heritage.

Alumni have a well-rounded skill set and general knowledge that is valued in the workplace.

- 3 Physical Education courses (90h)
- 3 Humanities courses (150h)
- 4 Language and Literature courses (240h)
- 2 Second Language courses (90h)
- 1 Complementary course (45h)
- 1 French Literature course (45h)

Concentration Courses

You must take 2 concentration courses in French.

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

* The College reserves the right to substitute some courses.