

COMPUTER SCIENCE TECHNOLOGY

ABOUT THE PROGRAM — Computer Science Technology is a three-year career program designed to provide you with a strong background in object-oriented methodology, particularly in program design and system analysis. Web concepts are integrated into courses and develop dynamic database-driven web applications on various operating system platforms. The program will focus on computer programming, operating systems, database and web technology, data communication and networking, security, and advanced programming languages.

Students in the Computer Science Technology diploma program will benefit from our modern facilities where every course uses a combination of class and laboratory time with access to the most recent versions of software. As a bonus, each student benefits from access to the same software for use on their own devices as part of our academic alliances with software vendors. Staff, faculty, and student advisors are committed to helping you succeed and prepare for a stage-training program in Semester 6 in an external business institution.

The program features a well-rounded blend of technologies that will prepare you to graduate as a developer, technician, or administrator of technologies in various industries. Our advisory committee of IT business professionals reviews the offerings each year and suggests adjusting the curriculum to reflect current and forecast computer technology needs.

YOU WILL LEARN

↳ Client-server development ↳ Cloud development
↳ Computer and networking support ↳ Computer Programming
↳ Database design and administration
↳ Gaming ↳ Internet of Things ↳ IS Security ↳ Mobile app development (Android and iOS)
↳ Modern Systems Analysis and Design ↳ Operating Systems Object-oriented methodology ↳ Problem Solving ↳ Software Design

THE POSSIBILITIES

The program prepares you for various careers such as software developer, information systems specialist, PC specialist, and more. The technical and business skills you will learn in Computer Science Technology will qualify you for some of the most dynamic in-demand jobs in the computer industry today. Students may also pursue university studies in many fields, including software engineering, business, or other science programs.

APPLICATION DEADLINE: MARCH 1ST FOR THE FALL SEMESTER

Minimum Admission Requirements:

Quebec Secondary School Diploma or a level of education that is deemed equivalent by the College. Even if applicants meet the requirement of the Règlement sur le régime des études collégiale, they may be refused admission due to lack of space.

Prerequisites:

Mathematics TS/SN 4 or CST 5

Contact Information:

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www.champlainonline.com

SEMESTER BREAKDOWN

SEMESTER

1

Computer / IT Fundamentals
Object Oriented Programming with Java 1
User Experience / Web Interface Design
Math for Computer Science
English
Humanities
French
Physical Education

SEMESTER

2

Configuring, Managing and Maintaining Computers
Object Oriented Programming With Java 2
Operating Systems using Linux
Web Programming and JS Libraries
Project Management with Quantitative Methods
English
Humanities
French

SEMESTER

3

Database Design and Introduction to SQL
Networking and Security
.NET Development
Java Web Programming
Introduction to IoT (Internet of things) & Embedded Systems
Fundamentals of Business and Entrepreneurship for IT Professionals
English
Complementary
Physical Education

SEMESTER

4

Web Development with PHP
Systems Analysis and Design
Mobile Application Development 1: Android
Game Development with the Unity Cross-Platform Game Engine
Web Services and Distributed Computing
English
Humanities
Physical Education

SEMESTER

5

Database Administration and Security
Mobile Application Development 2: iOS
Final Project 1
Azure for SQL Developers with ASP.NET and MVC
IoT: Design and Prototyping of Connected Devices
Professional Integration and High-Tech Entrepreneurship
Complementary

SEMESTER

6

Final Project 2
Internship (Field Experience)
Managing Big Data for Connected Devices
Comprehensive Assessment (Meeting The Graduate Profile)

A NEW SEASON – A NEW SEASON – A NEW SEASON – A NEW SEASON
