

# INTERNET PROGRAMMING (WITH BIG-DATA CERTIFICATION)

2 YEARS - CAREER PROGRAM



## ABOUT THE PROGRAM

Internet Programming (with big-data certification) is a two-year AEC career program that prepares students to be qualified internet and computer programming professionals.

In this program, students will acquire skills that will enable them to practice the profession of a programmer and/or an interactive media developer in the field of application development. Students will be taught how to manipulate a wide variety of software that operate on different platforms. In addition, students will be introduced to and will learn to develop various industry-standard applications.

## CAREER PROSPECTS

- A computer game developer
- A computer programmer
- An eBusiness (electronic business) software developer
- An interactive media developer
- A multimedia developer
- An operating systems programmer
- A program analyst
- A software developer
- A software programmer
- A systems programmer
- A web programmer

## WHAT DO PROGRAMMERS DO?

Programmer/developers play a key role in the development of PC (personal computer) or web applications. They are also called upon to provide user support or to work in collaboration with various specialists in the field of IT (internet technologies) such as data analysts, quality assurance managers, managers, and project managers. The work environment is quite diverse and often consists of the manipulation of the very materials and software components.

## SALARY PROSPECTS

Employment opportunities for graduates from this program are excellent!

The estimated hourly wage in Québec\* (2018-2020):

- Low: \$20.75, (\$46,160 Annually)
- Medium: \$34.62 (\$72,009 Annually)
- High: \$51.28 (\$106,662 Annually)

\*Data collected from federal (Statistics Canada) and provincial (Emploi Québec) analytics for this occupation sector.

## SEMESTER 1

- 420-101-TV INTRODUCTION TO COMPUTING AND THE INTERNET
- 420-102-TV THE LANGUAGES OF PROGRAMMING
- 420-103-TV COMPUTING AND MATH PROBLEMS
- 420-104-TV IT COMMUNICATION AND TEAMWORK
- 420-105-TV INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING
- 420-106-TV OPERATING SYSTEMS
- 420-107-TV WEBSITE DESIGN

## SEMESTER 2

- 4420-B01-TV PREVENTION AND SECURITY IN WEB DEVELOPMENT
- 420-B02-TV ADVANCED OBJECT-ORIENTED PROGRAMMING
- 420-B03-TV WEB APPLICATION DEVELOPMENT 1
- 420-B04-TV DEVELOPMENT OF NATIVE APPLICATIONS
- 420-B05-TV DATABASE
- 420-B06-TV NETWORKS AND PROTOCOLS
- 420-B07-TV TECHNICAL SUPPORT

## SEMESTER 3

- 420-301-TV WEB APPLICATION DEVELOPMENT 2
- 420-302-TV APPLICATION DEVELOPMENT FOR CONNECTED OBJECTS
- 420-303-TV GAME APPLICATION DEVELOPMENT
- 420-304-TV SOFTWARE QUALITY AND DESIGN
- 420-305-TV IMPLEMENTATION OF A NATIVE APPLICATION
- 420-306-TV IMPLEMENTATION OF A WEB APPLICATION

## SEMESTER 4

- 420-401-TV WORKPLACE INTERNSHIP