LaSalle College Montréal

AEC | LEA.DQ

Artificial Intelligence and Machine Learning

LEARN MORE

Duration
18 months (5 semesters, 1800 hours)

Schedule
Full-time
Daytime

Languages of Instruction
English, French

Method of Instruction
On-campus

Learn to solve computer puzzles with LaSalle College Montréal's ACS in Artificial Intelligence and Machine Learning. Become an AI expert in mathematics, data preparation, and algorithms, using case studies to resolve specific issues.

Career Prospects and Career Fields

Montréal has become a global hub for artificial intelligence (AI) research and innovation, according to Montréal International. The city has developed cutting-edge expertise, and several global leaders, including Mila, Google, and Facebook, have research labs in the Montréal AI ecosystem.

- Intelligent Systems Integrator,
- Programmer Specializing in Machine Learning,
- Programmer-Analyst in Machine Learning,
- Programmer in Artificial Intelligence,
- Data Scientist,
- Specialist in Artificial Intelligence Techniques,
- Machine Learning Technician,
- Artificial Intelligence Technician.

Diploma and Accreditation

This Attestation of College Studies (ACS) is approved by the ministère de l'Enseignement supérieur of Québec and is internationally recognized.

ACS programs are part of continuing education and destined primarily for adults seeking to add value to their skill set or reorient their career.

A student without a Certificate of eligibility (CEO) who begins an ACS program in English will be required to demonstrate sufficient knowledge of French, as defined by the regulations of the Ministère de la Langue française, in order to graduate.

Admissions Criteria

Exceptions to these admission criteria may be applied. Every application is reviewed by the College. To be eligible for acceptance into an ACS program, applicants are generally required to meet one of the following criteria:

- Have completed the following course: Mathematics TS, SN Secondary IV or CST 5 (Math 436); and
- Have interrupted their full-time studies for at least two (2) consecutive semesters or one (1) full school year; or
- Have followed post-secondary studies for a period of at least one (1) year; or
- Have a Secondary School Diploma (SSD) or a Diploma of Vocational Studies (DVS), and the program allows them to receive a technical training that is not available in a DCS program; or
- Have an equivalent education or an instruction deemed sufficient and meet the admission criteria set for college studies.

List of Courses

ACS programs are based on DCS program curricula, but do not have general education courses like French, English, or Philosophy.

Concentration Courses

• Creativity, innovation and critical thinking	(45h)
• Linear algebra	(45h)
• Introduction to programming	(75h)
• Introduction to relational databases	(45h)
• Information systems	(45h)
• Introduction to artificial intelligence	(60h)
• Differential calculus	(60h)
• Probability and statistics	(45h)
• Object-oriented programming	(90h)
• Introduction to data structures	(75h)
• Database management systems	(60h)
• Information security	(45h)
• Design models	(75h)
• Applied machine learning I	(75h)
• Advanced data management	(75h)
• Machine learning and neural networks	(60h)
• Algorithms and data structures	(60h)
• Applied machine learning II	(75h)
• Convolutional neural networks for visual recognition	(90h)

* The College reserves the right to substitute certain courses.

Montréal
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1595 Daniel-Johnson Blvd. Suite 200 - 514 939-2006

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

SEE REQUIREMENTS