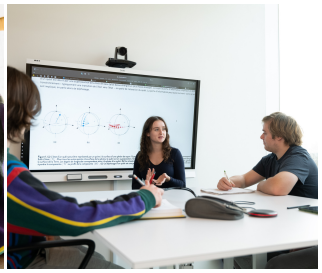
Co-op Program

ADMINISTRATIVE COMPUTER SCIENCE


Students in this bachelor's degree program learn to effectively integrate information technology into business processes while relying on their proven ability to interact with professionals from other study fields. The program brings together theory and practice, and offers concentrations in software engineering, e-commerce and business intelligence.

Project-based learning is given a predominant place as an integration tool in the training of these future professionals. With a particular focus on teamwork, this approach exposes students to specific issues as a result of the implementation of major software development projects in a production environment. Students face up to real-life situations dealing with technology and personnel issues in the course of a rigorous application of software engineering processes.

WHAT OUR STUDENTS CAN DO FOR YOU

Development and maintenance

- C++ and COM-object interfaces
- Optimization of business applications and modules
- Database modification
- Intranet tool development and debugging
- Computer-based support
- JAVA applications
- Programming (Oracle tools)
- Generic programming
- ERP integration

Analysis

- Analysis of clients' needs
- Thorough analysis of problems and solutions
- Analysis and definition of organizational information technology requirements

Management

- Planning and management of a data automation project on an Oracle server
- Preparation of project plans
- Facilitation of computer infrastructure management
- Management of an SQL database

Design

- Web-accessible enquiry systems (ASP, HTML, Javascript, Access, SQL, Java)
- NET applications
- Database patterns
- Development of B2B projects
- E-commerce
- Drafting of technical design documents

CEWIL | ECAMT CANADA
ACCREDITED PROGRAM
PROGRAMME AGRÉÉ

USherbrooke.ca/stages

UDS Université de Sherbrooke

KNOWLEDGE AND SKILLS

Term	Description
S-1	Technical and specialized writing; analysis and programming; discrete logic and mathematics; elements of databases and applied statistics.
S-2	Systems programming; operation of relational and object-oriented DBs; interfaces and multimedia; data structures and administrative principles.
S-3	Object-oriented design methods; structure of functional systems; algorithmics and data structures; operating systems and telematics.
S-4	Database modeling; requirement specification and verification; security and cryptography; information systems in business and operations management.
S-5	Personal and industrial relations management; two courses in the concentration or electives and integration projects. Concentration options : software engineering, decision support systems, without concentration
S-6	Three courses in the concentration or electives and integration projects. Concentration options : software engineering, decision support systems, without concentration

ORGANIZATION OF STUDY (S) AND WORK TERM (W)

Group	1st year			2nd year			3rd year			4th year	
	FALL	WIN	SUM	FALL	WIN	SUM	FALL	WIN	SUM	FALL	WIN
F	S-1	S-2	W-1	S-3	W-2	S-4	W-3	S-5	W-4	S-6	
I-F	S-2	W-2	S-3	W-3	S-4	W-4	S-5	S-6			
I-W		S-2	W-1	S-3	W-2	S-4	W-3	S-5	W-4	S-6	
W		S-1		S-2	W-1	S-3	W-2	S-4	W-3	S-5	S-6