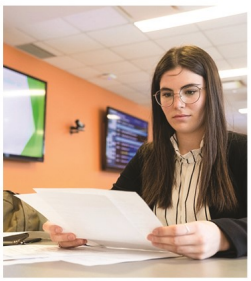
Co-op Program

ENVIRONMENT

MASTER'S DEGREE



This program prepares leaders in environmental science and sustainable development, capable to inspire and drive the implementation of sound management practices as well as to influence the actual course of action. It was designed with an interdisciplinary approach in mind, proving graduate level training in the field of environmental sustainability to graduates from various study areas including administration, engineering, pure and social sciences. With such individual professional backgrounds in addition to their specialization in environmental studies and sustainable development, students bring a unique perspective to any project they are part of.

As they learn the complexity of long-term impacts of environmental change and study the various dimensions inherent in the application of the sustainability concept, students also develop critical thinking skills, acquire high standards of ethics, and improve their interdisciplinary collaboration and communication skills. This new generation of problem solvers is able to bring about lasting change in society through informed decisions and contingency planning adapted to the specific realities of organizations.

WHAT OUR STUDENTS CAN DO FOR YOU

- Designing and implementing waste management strategies
- Planning, implementing and monitoring environmental management systems (ISO 14000)
- Preparing sustainable development policies, strategies and action plans
- Organizing eco-responsible events
- Strategic environmental assessment
- Feasibility studies for a sustainable development or environmental project
- Environmental diagnosis and proposal of technological and energy solutions or strategies to mitigate and adapt to climate change
- Water management planning
- Ecosystem characterization and valuation, environmental pressure analysis, management and conservation solutions
- Developing a strategy to address the development and protection of a natural environment
- Management and coordination of environmental patrols
- Developing environmental and sustainable development communication strategies and tools
- Communication plan
- Building awareness among various client groups to drive behavior changes

ACCREDITED

USherbrooke.ca/ssdp/en

UNIVERSITÉ DE SHERBROOKE

KNOWLEDGE AND SKILLS

Term	Description
S-1	Collaboration in a multidisciplinary team; evaluation of environmental or sustainable development projects using an interdisciplinary/systemic-based approach; adopting a position and giving recommendations adapted to the context; application of project management tools and principles in a collaborative work context; communication and development of credible arguments to influence decisions; analysis of the physicochemical behaviour of substances in the environment; evaluation of the legal framework applicable to a situation or an environmental issue; determining the value of ecosystems and analyzing impacts on these ecosystems to consider in the development of policies, management of resources as well as territory development and planning.
S-2	Élaboration d'une offre de services en réponse à un appel d'offres reçu d'une organisation (ex. : municipalité, entreprise, organisme à but non lucratif); gestion et réalisation d'un projet en contexte professionnel intégrant les dimensions environnementales et de développement durable; agir professionnellement envers son client et les membres de son équipe; travailler en équipe multidisciplinaire; réflexion sur la démarche et sur le résultat. Cours à option*
S-3	Optional courses*
S-4	Write an essay: reviewing the state of knowledge in a specific field; study and critical analysis; diagnosis; write a document that includes an intervention plan or analysis incorporating environmental multidisciplinarity; application of the best project management practices.

*** Students choose from the following list of activities:**

- Environmental risk management
- Environmental site assessment
- Forest and agricultural resources
- GHG inventory and carbon credits
- Impact evaluation
- International development
- Pollution prevention and treatment
- Residual waste management
- Sustainable development in organizations
- Water management
- Application of sustainable development
- Climate change and energy
- Communication and participatory management
- Ecosystem valuation and management
- Environmental audit
- Environmental economics
- Environmental health and ecotoxicological risk assessment
- Environmental indicators
- Environmental management systems (ISO 14000)

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

1st year			2nd year		
FALL	**WIN**	**SUM**	**FALL**	**WIN**	**SUM**
S-1	S-2	W-1	S-3	S-4	
	S-1	S-2	W-1	S-3	S-4