Master’s of Environmental Sustainability

List of Elective Courses 2020-2021
Elective courses – Environmental Sustainability

Please find below a list of elective courses approved by The Institute of the Environment for the Collaborative program in Environmental Sustainability and for the M.Sc. in Environmental Sustainability. NOTE: Registering in these courses typically requires the approval of your department as well as the approval of the instructor. These approvals are necessary to ensure that spaces are available and that you have the required background to succeed in the course.

Moreover, if you are aware of additional courses that relate to environmental sustainability and that might be better tailored to your academic goals, don’t hesitate to ask us whether it might be approved as an optional course. We suggest that you submit a copy of the course syllabus with your request. The program’s director will be happy to consider it.

Fall 2020
ECO 6151A - Economics of the Environment
The concept of scarcity rents in static and dynamic settings. Basic property regimes: open access, exclusive access and common property. Policy instruments. The importance of transaction costs. General-equilibrium and political-economic aspects of property regimes. Conflict. Elements of dynamic optimization. Renewable and non-renewable resources. This course is equivalent to ECON 5803 at Carleton University.

Winter 2021
DVM 6102A - Livelihoods, Resources and Sustainability or DVM 6502A Modes de vie, ressources et durabilité
Interaction between society and nature. Consideration of how power shapes the use of resources such as land, water, food, or energy, and on how livelihoods adapt to environmental change in various rural and urban contexts. Theoretical lenses include commons theory, social ecological resilience, political ecology, and political economy.

ECO 6134 - Economics of Natural Resources
The concept of scarcity rents in static and dynamic settings. Basic property regimes: open access, exclusive access and common property. Policy instruments. The importance of transaction costs. General-equilibrium and political-economic aspects of property regimes. Conflict. Elements of dynamic optimization. Renewable and non-renewable resources. This course is equivalent to ECON 5803 at Carleton University.

EVD 5123 - Evidence Synthesis and Evaluation
Reviews different understandings of what constitutes research, both as it pertains to the production of evidence and to the evaluation of existing evidence relating to policy, to regulatory and statutory interventions and to identifying evidence gaps. Students learn research methodologies to design research so as to maximize its evidentiary value (given existing constraints); they will also learn to synthesize and assess the evidentiary value of existing research.
EVD 5109 - Applied Environmental Sustainability
Uses an environmental sustainability case study, such as climate change, to learn how to synthesize information about a problem from multiple disciplinary perspectives, to critically evaluate such information using rigorous methodological approaches, and to design and evaluate policy or regulatory solutions.

GEO 5143 - A00 Environmental Isotopes and Groundwater Geochemistry
Geochemistry and environmental isotopes in studies of groundwater dynamics, age and contaminant hydrogeology. Environments from shallow groundwater and surface water to deep crustal brines are examined. Low temperature aqueous geochemistry and mineral solubility with emphasis on the carbonate system. This course is equivalent to ERTH 5403 at Carleton University.

ISP 5101 - Decision at the Interface of Science and Policy
This course explores a number of critical issues in the design and implementation of science (or, more generally, evidence)-based policy. Topics will include: the nature of scientific evidence; who has standing in the provisioning of scientific evidence; the science and non-science of risk assessment; ethical dimensions of policy design and implementation; the role of science in policy design and implementation; the policy making process; and science policy performance evaluation.

Waiting List – Syllabus Required
Fall 2020
API 6739A - Thèmes choisis en Aff. Intern.
Thème: Gouvernance mondiale de la santé

ADM 6274 – International E-business Strategies
International trends in the global economy together with assessment of risks, and associated international e-business opportunities. Strategies for translating international opportunities into e-businesses, including localizing international web-based content, developing international supply networks, international crowdsourcing, international payments and international collaboration. How to address local laws on privacy, intellectual property and business contracts.

DCL 6739D - Thèmes choisis en droit
Étude approfondie d'une problématique ou d'un sujet lié aux tendances émergentes en droit. Thème: Droit international de l'environnement

DCL 5732 - Problèmes choisis de droit de la personne II
Thème: Droit de l'environnement

GEG 5105 - Selected Topics in Human Geography
In-depth examination of a question or topic linked to new trends or research areas in human geography. Topic: Theoretical approaches and methodological debates
Winter 2021

**ANT 6122 – Environmental Anthropology**
In-depth analysis of research problems understood as environmental, underlining important questions of shared milieus in which humans and non-humans are entangled. Studies, grounded in ethnographic research, of different ecological and territorial issues.

**API 6739B – Thèmes choisis en affaires internationales**
Topic: Démographie mondiale : Aspects politico-économiques

**API 6739C – Thèmes choisis en affaires internationales**
Topic: Prospective appliquée et politique publique

**DCL 6339A Session H – Special Topics in Law**
In-depth examination of a question or topic linked to emerging trends or research areas in law. Topic: Environmental Law

**DCL 6339E Session H – Special Topics in Law**
In-depth examination of a question or topic linked to emerging trends or research areas in law. Topic: Technology, Human Rights and Cyber Security

**DCL 6339G Session H – Special Topics in Law**
In-depth examination of a question or topic linked to emerging trends or research areas in law. Topic: Food Law

**DCL 6339N Session H – Special Topics in Law**
In-depth examination of a question or topic linked to emerging trends or research areas in law. Topic: International Environmental Law

**DCL 6739J - Thèmes choisis en droit**
Étude approfondie d'une problématique ou d'un sujet lié aux tendances émergentes en droit. Topic: Droit agroalimentaire

**EDU 6106 - Science, Technology, Society and Environment**
Virtual Internet Course - Critical examination of the social impact of science and technology and their educational implications. Study of the roles of ecological and scientific literacies.

**GEG 5105 – Selected Topics in Human Geography**
In-depth examination of a question or topic linked to new trends or research areas in human geography.

**GEO 5155 – Climate Change**
Considers climate changes and their driving mechanisms over a broad range of timescales based on observations from geological archives and more recent instrumented evidence. Future climate projections and their accuracy are also considered. This course is equivalent to ERTH 5505 at Carleton University.