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 academic director will be happy to consider it.

**Fall 2018**

**ECO6151A 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.

**SOC7103A Sociology of the Environment**
Origins of environmental problems and conflicts; social theories of environmental degradation, controversies and disasters; perspectives on human-nature interactions.
Winter 2019

API6351 - International Economics and Developing Countries
Introduction to the economic analysis of developing countries. The course will address the different tools used to measure economic development as well as the obstacles to growth and development in the Third World. Issue areas considered include macro-economic adjustment, financing development, population growth, human capital, technological progress and facilitating institutions.

API6739A Thèmes choisis en Aff. Intern. – Le développement durable et la politique environnementale

DCL5340 - Sustainability and Law
This course provides theoretical perspectives on alternative approaches to environmental policy, emphasizing ethical and economic perspectives.

DVM6102A - Livelihoods, Resources and Sustainability or DVM6502A 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.

EVD5100 - Seminar in Environmental Sustainability
Overview of environmental sustainability issues using climate change as an example. Application of integrated analyses based on concepts in science, law, economics and policy to devise policy solutions. The debate about the scientific evidence for climate change and international efforts to negotiate an agreement. The economic, political and social dimensions of climate change and measures taken both nationally and internationally to mitigate its effects.

ECO6134 - TOPICS Environmental and Resource Economics
Topics may include international dimensions of environmental regulation, including treaties, competitiveness, and the effects of trade liberalization; development issues, including fiscal sustainability, Dutch disease, the resource curse, and population growth; resource topics, including optimal taxation, green national accounts, sustainability theory, and scarcity of extractive resources. This course is equivalent to ECON 5805 at Carleton University.

GEG5105 - Selected Topics in Human Geography
In-depth examination of a question or topic linked to new trends or research areas in human geography.

GEO5302 - SEMINARS IN EARTH SCIENCES II
One-session modular course covering a spectrum of Earth science topics and current research problems, ranging from the geology and geophysics of the solid Earth, to its surface environment and crustal resources. A minimum of 4 modules is offered per session; 3 must be completed to obtain unit for a course. Students may not normally obtain units for modules that are offered by their supervisors. The choice of modules must be approved by the Director of the Geoscience Centre or a designate. This
course complements GEO 5301 (ERTH 5001). This course is equivalent to ERTH 5002 at Carleton University.

**GEG5311 - Applications of Remote Sensing in the Polar Regions**
Dynamics of cold environments with particular emphasis on their sensitivity to climate variability and climate change, natural and anthropogenically induced.

**EVD5123 - 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.

**EVD5109 - 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.

**ISP5101 - 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 2017

ADM6274 – 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.

GEG5109 - Place and Social Transformations
Interplay between social and spatial transformations and its implications for meanings and representations from global to local scales.

**DCL6339 – Special Topics in Law
In-depth examination of a question or topic linked to emerging trends or research areas in law.

Winter 2018

DCL6122 C00 – Studies in INTL Law – Environmental Law
No course description

DVM6101A Economic Growth, Private Sector and Social Inclusion or DVM6501A Croissance économique, secteur privé et inclusion sociale
Understanding economic development, including the roles of the private sector and public policy, particularly in terms of their impact on economic growth, living standards, social inclusion, poverty and inequality, and human development.

**DCL6339 – Special Topics in Law
In-depth examination of a question or topic linked to emerging trends or research areas in law.

**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.