

ENVIRONMENTAL STUDIES

Courses

Not all courses are offered every year. With the exception of ENSC 898, 899 and 999 all courses are 3.0 credit units.

ENSC 801 Methodological and Conceptual Basis for Environmental Studies

The course examines methodological and conceptual issues arising from Environmental Studies position as an inter-, multi- and/or trans-disciplinary practice. It will focus on the inherent difficulties in overcoming disciplinary fragmentation in approaches to studying complex issues in environmental sustainability that require integrated understandings of the inter-relations between social and natural systems. The course will promote methodological literacy beyond student's own area of expertise, develop critical and reflexive thinking about how environmental studies might approach issues of sustainability, and encourage and facilitate communication across disciplinary paradigms. The course precedes and compliments ENSC 802, familiarizing students with the historical origins, philosophical underpinnings and practical deployment of key approaches within the social and natural sciences and humanities. Three term-hours; Fall. Course fee(s): field trip fee of \$50.00

PREREQUISITE: permission of instructor

ENSC 802 Global Environmental Problems: Issues in Sustainability

This course focuses on real-world environmental problems analyzing their social, ethical, and biogeochemical origins, economic ramifications, and institutional frameworks for their mitigation and resolution in the context of environmental sustainability. This course would logically follow or run concurrently with ENSC 801, and will deepen and continue the themes through consideration of the intellectual history of theories and concepts relevant to environmental studies, with a focus on the concepts of "sustainability" and "sustainable development". Three term-hours; Winter.

PREREQUISITE: permission of instructor

ENSC 807 Global Water Resources: Challenges and Opportunities

This course investigates water resources from the physical, social, and health aspects common to a diversity of watersheds found across Canada, and around the world. It critically explores a wide range of challenges and opportunities associated with our common connection to water, from water as a human right, to anthropogenic environmental impacts. NOTE Field Trip: estimated cost \$30. (3.0 credit units).

Exclusion: ENSC 407

ENSC 825 Ecotoxicology

An exploration of the interactions among chemical exposure, toxicity to individual organisms, and effects on ecosystem structure and function. Mechanisms of toxicity will be linked to effects at different levels of organization up to the level of the ecosystem, using case studies to explore the complexities of exposure and response. NOTE Field Trip (Local Harbour or Marina): estimated cost \$30. (3.0 credit units) Exclusion: ENSC 425

ENSC 840 Directed Studies

This course provides an opportunity for students to independently study a selected topic under the supervision of one of more faculty members. This may take the form of a reading course with an assigned paper, but other possible formats would be considered. For detailed information, consult course coordinator. Three term-hours: Fall, Winter, Summer.

PREREQUISITE: permission of course coordinator

ENSC 841 Special Topics

This course focuses on specific topics related to the environment and sustainability. Special topics are offered under the guidance of a faculty member in an area of the instructor's expertise. For detailed information, consult the course instructor. Three term-hours: Fall, Winter or Summer. Field trip fees may apply, normally less than \$50.00

PREREQUISITE: permission of the instructor

EXCLUSION: varies depending on instructor

ENSC 842 Special Topics

This course focuses on specific topics related to the environment and sustainability. Special topics are offered under the guidance of a faculty member in an area of the instructor's expertise. For detailed information, consult the course instructor. Three term-hours: Fall, Winter or Summer. Field trip fees may apply, normally less than \$50.00

PREREQUISITE: permission of the instructor

EXCLUSION: varies depending on instructor

ENSC 845 Waste Flows

This course will consider waste as a global human health and environmental crisis that requires interdisciplinary approaches to understand waste as a social justice issue. Various types of waste will be considered as well as various waste governance and management practices. (3.0 credit units)

Exclusion: ENSC 445

ENSC 880 Special Topics in Environmental Science



This course will provide intensive coverage of a topic that is current and/or of special interest in Environmental Science. The course will be multidisciplinary, but with a science focus. Offered periodically by visiting professors or members of faculty. The topic for each year will be announced in advance of course selection and will be made available on the ENSC web page. Students are advised to consult with their academic counsellor and/or the course instructor prior to registration. NOTE Field Trip: estimated cost \$30. (3.0 credit unit).

Exclusion: ENSC 480 when topic is the same.

ENSC 882 Special Topics in Environmental Studies

This course will provide intensive coverage of a topic that is current and/or of special interest in Environmental Studies. The course will cover mainly social science-based material, but will be multidisciplinary. Offered periodically by visiting professors or members of faculty. The topic for each year will be announced in advance of course selection and will be made available on the ENSC web page. Students are advised to consult with their academic counsellor and/or the course instructor prior to registration. NOTE Field Trip: estimated cost \$30. (3.0 credit units)

Exclusion: ENSC 482 when topic is the same

ENSC 898 Master's Project (Course-based)

ENSC 899 Master's Thesis

ENSC 999 Ph.D. Thesis Research