Environmental Studies

Graduation Requirements

In addition to the requirements listed below, students must satisfy:

- the University regulations (see the Academic Regulations of the University section of this Calendar),
- the common regulations applying to all B.A. students (see Academic Regulations for the Bachelor of Arts Degree). Environmental Studies students are exempt from the Breadth requirements.

Students should consult with the Department when planning their program and selecting courses. Suggested thematic groupings of approved electives are outlined on the departmental website. Some of the Environmental Studies Approved Electives have prerequisites, which are not explicitly included in the program. Students should plan to obtain all necessary prerequisites or waivers for courses selected for this program.

Program Requirements

Environmental Studies B.A. Honours (20.0 credits)

A. Credits Included in the Major CGPA (12.0 credits)

1.	1.0 credit from:		1.0
	ISCI 1001 [0.5]	Introduction to the Environment	
	ENST 1020 [0.5]	People, Places and Environments	
	GEOG 1010 [0.5]	Global Environmental Systems	
2.	1.0 credit from:		1.0
	ENST 1001 [1.0]	Introduction to Environmental Studies	
	FYSM 1100 [1.0]	Sustainable Environments	
3.	2.0 credits in:		2.0
	ENST 2000 [0.5]	Nature, Environment and Society: Theoretical Perspectives	
	ENST 2001 [0.5]	Sustainable Futures: Environmental Challenges and Solutions	
	ISCI 2000 [0.5]	Natural Laws	
	ISCI 2002 [0.5]	Human Impacts on the Environment	
4.	1.0 credit in:		1.0
	ENST 2005 [0.5]	Introduction to Qualitative Research	
	ENST 2006 [0.5]	Introduction to Quantitative Research	
5.	1.0 credit in:		1.0
	ENST 3000 [0.5]	Environmental Studies Colloquium	
	ENST 3022 [0.5]	Environmental and Natural Resources	
6.	0.5 credit in:		0.5
	PHIL 2380 [0.5]	Introduction to Environmental Ethics	
7.	1.0 credit from:		1.0
	ECON 3804 [0.5]	Environmental Economics	

	GEOG 3206 [0.5]	Health, Environment, and Society	
	GEOG 3209 [0.5]	Sustainability and Environment in the South	
	GEOG 3501 [0.5]	Geographies of the Canadian North	
	HUMR 3503 [0.5]	Global Environmental Justice	
	LAWS 3800 [0.5]	Law of Environmental Quality	
	PHIL 3380 [0.5]	Environments, Technology and Values	
	PSCI 3801 [0.5]	Environmental Politics	
	RELI 3710 [0.5]	Religions and the Environment	
	TSES 3002 [0.5]	Energy and Sustainability	
8.	0.5 credit from:		0.5
	ENST 3900 [0.5]	Intensive Field Course	
	GEOG 3030 [0.5]	Regional Field Excursion	
9.	0.5 credit in:		0.5
	ENST 4000 [0.5]	Environmental Studies Seminar	
10	. 0.5 credit from:		0.5
	ENST 4006 [0.5]	Environmental Policy Analysis	
	GEOG 4022 [0.5]	Seminar in People, Resources and Environmental Change	
	GEOG 4023 [0.5]	Seminar in Sustainable Urban Environments	
	GEOG 4004 [0.5]	Environmental Impact Assessment	
	GEOG 4050 [0.5]	Environmental and Geographic Education	
11.	. 1.0 credit in:		1.0
	a) Thesis stream		
	1.0 credit from:		
	ENST 4906 [1.0]	Honours Research Project	
	ENST 4907 [1.0]	Honours Research Essay	
	or		
	b) Course stream		
	1.0 credit in Approve at the 4000-level	ed Environmental Studies Electives	
12	. 0.5 credit from:		0.5
	ENST 4001 [0.5]	Environmental Studies Practicum I	
	ENST 4002 [0.5]	Environmental Studies Practicum II	
	. 1.0 credit in Approactives at the 3000-le	oved Environmental Studies evel or above	1.0
	. 0.5 credits in App ectives	roved Environmental Studies	0.5
B. Credits Not Included in the Major CGPA (8.0 credits)			
15. 8.0 credits in free electives 8.0			
Total Credits 20.0			
No	Note: It may be necessary to use some of the free elective		

Note: It may be necessary to use some of the free elective credits to fulfill prerequisite requirements for courses in the Major.

Environmental Studies B.A. General (15.0 credits)

A. Credits Included in the Major CGPA (8.0 credits)

1	i. 1.0 creaits from:		1.0
	ISCI 1001 [0.5]	Introduction to the Environment	
	GEOG 1010 [0.5]	Global Environmental Systems	
	GEOG 1020 [0.5]	People, Places and Environments	
2	2. 1.0 credit from:		1.0
	ENST 1001 [1.0]	Introduction to Environmental Studies	

FYSM 1100 [1.0] Sustainable Environments 2.0 ENST 2000 [0.5] Natural. Environment and Society: Theoretical Perspectives ENST 2001 [0.5] Sustainable Futures: Environmental Challenges and Solutions ISCI 2000 [0.5] Natural Laws ISCI 2000 [0.5] Natural Laws ISCI 2000 [0.5] Natural Laws Environment 4. 1.0 credit from: 4. 1.0 credit from: ENST 2005 [0.5] Infroduction to Quantitative Research Research Research GEOM 1004 [0.5] Maps, Satellites and the Geospatial Revolution Final Revolution Environmental Studies Colloquium ENST 3002 [0.5] Infroduction to Environmental Ethics Environmental Studies Colloquium ENST 3002 [0.5] Environmental Studies Electives 3. 1.0 credit in Approved Environmental Studies Electives 3. 1.0 credits in free electives. 3.					
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9. 7.0 credits in free electives. Total Credits Total Provided Indivision Systems Total Architecture Total Architecture Total Architecture Total Architecture Total Architecture Total Credits Total C	B. Credits Not Inclu	ded in the Major CGPA (7.0 credits)		Geomatics	
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GEOG 3108 [0.5]	Soil Properties
GEOG 3206 [0.5]	Health, Environment, and Society
GEOG 3209 [0.5]	Sustainability and Environment in the South
GEOG 3404 [0.5]	Geographies of Economic Development
GEOG 3501 [0.5]	Geographies of the Canadian North
GEOG 3700 [0.5]	Population Geography
GEOG 4004 [0.5]	Environmental Impact Assessment
GEOG 4022 [0.5]	Seminar in People, Resources and Environmental Change
GEOG 4023 [0.5]	Seminar in Sustainable Urban Environments
GEOG 4050 [0.5]	Environmental and Geographic Education
GEOG 4303 [0.5]	Urban Planning
History	
HIST 2310 [0.5]	Canadian Environmental History to 1920
HIST 2311 [0.5]	Canadian Environmental History from 1890
HIST 3209 [0.5]	Canadian Urban History
HIST 3310 [0.5]	Animals in Human History
Human Rights	
HUMR 3503 [0.5]	Global Environmental Justice
Interdisciplinary Scient	ence
ISCI 1001 [0.5]	Introduction to the Environment
Law	
LAWS 3005 [0.5]	Law and Regulation
LAWS 3800 [0.5]	Law of Environmental Quality
LAWS 4800 [0.5]	Environment and Social Justice
Philosophy	
PHIL 3350 [0.5]	Philosophy, Ethics, and Public Affairs
PHIL 3380 [0.5]	Environments, Technology and Values
Political Science	
PSCI 2003 [0.5]	Canadian Political Institutions
PSCI 2602 [0.5]	International Relations: Global Political Economy
PSCI 3801 [0.5]	Environmental Politics
PSCI 4808 [0.5]	Global Environmental Politics
PSCI 4818 [0.5]	The Environmental State
Religion	
RELI 3710 [0.5]	Religions and the Environment
Sociology and Anthr	
ANTH 2035 [0.5]	Technology, Culture and Society
or SOCI 2035 [0.5]	Technology, Culture and Society
ANTH 2850 [0.5]	Development and Underdevelopment
SOCI 3038 [0.5]	Studies in Urban Sociology
ANTH 3355 [0.5]	Anthropology and the Environment
SOCI 3805 [0.5]	Studies in Population
ANTH 4036 [0.5]	Science and Technology Studies: Selected Topics
or SOCI 4036 [0.5]	Science and Technology Studies: Selected Topics
Technology, Society,	Environment
TSES 2006 [0.5]	Ecology and Culture

TSES 3001 [0.5]	Technology-Society Interactions
TSES 3002 [0.5]	Energy and Sustainability
TSES 4001 [0.5]	Technology and Society: Risk
TSES 4002 [0.5]	Technology and Society: Forecasting
TSES 4003 [0.5]	Technology and Society: Innovation
TSES 4007 [0.5]	Product Life Cycle Analysis
TSES 4008 [0.5]	Environmentally Harmonious Lifestyles

Environmental Studies (ENST) Courses Department of Geography and Environmental Studies

Faculty of Arts and Social Sciences

ENST 1001 [1.0 credit]

Introduction to Environmental Studies

Sustainability requires broadened perspectives on the Earth's natural systems. Geographic and geomatics perspectives help us examine physical and biological environments as the basis of human societies. Includes: landscape interpretation, resources, hazards, inferring meaning from data, and predicting potential impacts of/on human actions.

Precludes additional credit for FYSM 1100. Lecture two hours and workshops/tutorials two hours weekly.

ENST 1020 [0.5 credit] People, Places and Environments

Introduction to human geography. Examination of relationships between people, communities, society and the natural environment at local to global scales. Population change, cultural patterns, and historical, economic, political and environmental forces that shape human activity and experiences from place to place. Also listed as GEOG 1020.

Lectures two hours a week and tutorial one hour a week.

ENST 2000 [0.5 credit]

Nature, Environment and Society: Theoretical Perspectives

Examination of the shifting understandings of nature, the environment, and nature-society relations. Topics include nature as a concept, people's relationships to the environment across the globe, environmental movements and institutions, narratives of environmental change, and political ecology approaches to understanding and combating environmental degradation.

Prerequisite(s): second-year standing in the Environmental Studies program or permission of the Department. Lectures three hours a week.

ENST 2001 [0.5 credit]

Sustainable Futures: Environmental Challenges and Solutions

Individual and collective responses to pressing environmental problems. Innovative ways in which the environment can be protected and restored, taking into consideration socioeconomic, political and cultural factors. Topics include environmental lifestyles, sustainable communities, food systems, environmental design, and political activism.

Prerequisite(s): second-year standing in the Environmental Studies program or permission of the Department. Lectures, seminars and field work three hours a week.

ENST 2005 [0.5 credit]

Introduction to Qualitative Research

Introduction to the research process, from generating questions through to reporting results. Topics include intensive and extensive research approaches; the use of surveys, interviews and other data collection methods; the analysis of qualitative information; and the ethical dimensions of doing research with people and communities.

Also listed as GEOG 2005.

Prerequisite(s): 1.0 credit in GEOG or ENST at the 1000-level and second-year standing, or permission of the Department.

Lectures two hours a week, workshop two hours a week.

ENST 2006 [0.5 credit] Introduction to Quantitative Research

Introduction to solving problems using descriptive and inferential statistical methods. Graphical and numerical tools to describe distributions. Probability, sampling and estimates, and hypothesis testing. Fundamentals of spatial statistics and analysis.

Also listed as GEOG 2006.

Precludes additional credit for STAT 2507, STAT 2606, ECON 2200[1.0], ECON 2201, ECON 2202, PSYC 2002, PSCI 2702.

Lectures two hours a week, laboratory two hours a week.

ENST 2500 [0.5 credit]

Climate Change: Social Science Perspectives

An introduction to climate change, with an emphasis on human dimensions. Topics include anthropogenic greenhouse gas emissions, regional variations in climate change and their consequences, human vulnerability and adaptation to environmental change, and climate change politics and policies at a variety of geographic scales. Also listed as GEOG 2500.

Prerequisite(s): ENST 1020 or GEOG 1020, or secondyear standing.

Lectures three hours a week.

ENST 3000 [0.5 credit]

Environmental Studies Colloquium

Interactions among complex natural systems, social values and attitudes and economic, political and legal concerns are explored through invited speakers from various disciplines and agencies addressing specific environmental issues.

Prerequisite(s): third-year standing in Environmental Studies or permission of Environmental Studies. Lecture and discussion three hours a week.

ENST 3022 [0.5 credit]

Environmental and Natural Resources

Exploration of complexity, dynamics, uncertainty and equity issues underpinning environmental and resource issues; review and appraisal of selected contemporary methods to assess and manage environmental and natural resources.

Also listed as GEOG 3022.

Prerequisite(s): third-year standing in Geography or Environmental Studies or permission of the Department. Lecture three hours a week.

ENST 3900 [0.5 credit] Intensive Field Course

Training in fields of research or practice related to careers in Environmental Studies, linking human values and environment and may include engaging in action learning in environmental education, environmental auditing, environmental assessment, watershed protection or living resource inventories. Topics may change from year to year.

Precludes additional credit for ENST 2900 [no longer offered] and GEOG 3000.

Prerequisite(s): third-year standing or higher in Environmental Studies, and permission of the Environmental Studies Coordinator.

Normally consists of a multi-day field excursion in the Ottawa region. A supplementary charge may apply. Consult the department regarding course details.

ENST 4000 [0.5 credit]

Environmental Studies Seminar

How societal institutions respond to environmental concerns, how various stakeholders understand the environment and how environmental priorities may be implemented in social, political and economic decision-making. Interdisciplinary case studies are used. Prerequisite(s): registration is restricted to students eligible for fourth-year standing in the B.A. (Environmental Studies) Honour program.

Seminar three hours per week.

ENST 4001 [0.5 credit]

Environmental Studies Practicum I

External agency setting provides the basis for translating academic training into practical involvement with environmental issues. Observation and involvement in issues and research methods used by professional environmental practitioners.

Prerequisite(s): registration is restricted to students eligible for fourth-year standing in the B.A. (Environmental Studies) Honours program, and permission of the Environmental Studies Co-ordinator.

ENST 4002 [0.5 credit]

Environmental Studies Practicum II

External agency setting provides the basis for translating academic training into practical involvement with environmental issues. Observation and involvement in issues and research methods used by environmental practitioners.

Prerequisite(s): restricted to students in the fourth year of the Environmental Studies Honours program, and permission of the Environmental Studies Co-ordinator.

ENST 4005 [0.5 credit]

Directed Studies in Environmental Studies

Students pursue their interest in a selected theme in environmental studies on a tutorial basis with a faculty member

Also listed as GEOG 4005.

Prerequisite(s): permission of the Department. Hours to be arranged.

ENST 4006 [0.5 credit] Environmental Policy Analysis

Critical examination of the creation, implementation and effectiveness of government policies related to environmental issues. Emphasis on perspectives, actors, institutions and social and economic relationships affecting policy responses to these issues, and on tools for analyzing the implications of specific policy choices. Prerequisite(s): fourth-year Honours standing in Environmental Studies, Geography, or permission of the Department.

Seminar three hours per week.

ENST 4400 [0.5 credit]

Field Studies

Field observation and methodology in a selected region, special topic or contemporary problem; on an individual or group basis.

Also listed as GEOG 4000.

Prerequisite(s): permission of the Department. Hours to be arranged.

ENST 4906 [1.0 credit] Honours Research Project

An independent investigation into a select aspect of environmental studies, supervised by a faculty member. Possible outcomes might include: workshops, audiovisual productions, lay publications, and field projects accompanied by an essay demonstrating the student's capacity to critically reflect on the research project. Precludes additional credit for GEOG 4904/GEOM 4904 (no longer offered), GEOG 4909/GEOM 4909, GEOG 4906, ENST 4907.

Prerequisite(s): fourth-year Honours standing in Environmental Studies, a minimum CGPA of 9.00 in the major or permission of the Department, and an approved research topic and adviser.

Hours to be arranged with faculty adviser.

ENST 4907 [1.0 credit] Honours Research Essay

Interdisciplinary research essay on an environmental issue, carried out in consultation with a faculty supervisor. The student must consult with the undergraduate student advisor in selecting a project and a supervisor. Precludes additional credit for ENST 4906, GEOG 4909/GEOM 4909, GEOG 4904/GEOM 4904 (no longer offered), and GEOG 4906.

Prerequisite(s): fourth-year Honours standing in Environmental Studies, a minimum CGPA of 9.00 in the major or permission of the Department, and an approved research topic and adviser.

Hours to be arranged with faculty adviser.

Summer session: some of the courses listed in this Calendar are offered during the summer. Hours and scheduling for summer session courses will differ significantly from those reported in the fall/winter Calendar. To determine the scheduling and hours for summer session classes, consult the class schedule at central.carleton.ca

Not all courses listed are offered in a given year. For an up-to-date statement of course offerings for the current session and to determine the term of offering, consult the class schedule at central.carleton.ca