Environmental Studies

Program Requirements
Bachelor of Arts

Environmental Studies
B.A. Honours (20.0 credits)

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

1. 1.0 credit from:
   - 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:
   - FYSM 1100 [1.0]  Sustainable Environments
   - FYSM 1101 [1.0]  Location is Everything
   - FYSM 1107 [1.0]  Social Justice and the City

3. 2.0 credits in:
   - 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:
   - ENST 2005 [0.5]  Introduction to Qualitative Research
   - ENST 2006 [0.5]  Introduction to Quantitative Research

5. 1.0 credit in:
   - ENST 3000 [0.5]  Environmental Studies Colloquium
   - ENST 3022 [0.5]  Environmental and Natural Resources

6. 0.5 credit in:
   - PHIL 2380 [0.5]  Introduction to Environmental Ethics

7. 1.0 credit from:
   - 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:
   - ENST 3900 [0.5]  Honours Field Course
   - GEOG 3030 [0.5]  Regional Field Excursion

9. 0.5 credit in:
   - ENST 4000 [0.5]  Environmental Studies Seminar

10. 0.5 credit from:
    - ENST 4006 [0.5]  Environmental Policy Analysis

11. 1.0 credit in:
    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 Approved Environmental Studies Electives at the 4000-level

12. 0.5 credit from:
    - ENST 4001 [0.5]  Environmental Studies Practicum I
    - ENST 4002 [0.5]  Environmental Studies Practicum II

13. 1.0 credit in Approved Environmental Studies Electives at the 3000-level or above

14. 0.5 credits in Approved Environmental Studies Electives

B. Credits Not Included in the Major CGPA (8.0 credits)

15. 8.0 credits in free electives

Total Credits 20.0

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. 1.0 credit from:
   - ISCI 1001 [0.5]  Introduction to the Environment
   - GEOG 1010 [0.5]  Global Environmental Systems
   - GEOG 1020 [0.5]  People, Places and Environments

2. 1.0 credit from:
   - FYSM 1100 [1.0]  Sustainable Environments
   - FYSM 1101 [1.0]  Location is Everything
   - FYSM 1107 [1.0]  Social Justice and the City

3. 2.0 credits in:
   - 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 from:
   - 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

5. 0.5 credit in:
   - ENST 3900 [0.5]  Honours Field Course
   - GEOG 3030 [0.5]  Regional Field Excursion

6. 0.5 credit in:
   - ENST 4000 [0.5]  Environmental Studies Seminar

7. 0.5 credit from:
   - ENST 4006 [0.5]  Environmental Policy Analysis

8. 0.5 credit in:
   - PHIL 2380 [0.5]  Introduction to Environmental Ethics

9. 0.5 credit in:
   - GEOG 4022 [0.5]  Seminar in People, Resources and Environmental Change
   - GEOG 4023 [0.5]  Seminar in Special Topics on the City
   - GEOG 4004 [0.5]  Environmental Impact Assessment
   - GEOG 4050 [0.5]  Environmental and Geographic Education

Note: It may be necessary to use some of the free elective credits to fulfill prerequisite requirements for courses in the Major.
6. 1.0 credit in:

ENST 3000 [0.5] Environmental Studies Colloquium
ENST 3022 [0.5] Environmental and Natural Resources

7. 0.5 credit in Approved Environmental Studies Electives

8. 1.0 credit in Approved Environmental Studies Electives at the 3000-level or above

B. Credits Not Included in the Major CGPA (7.0 credits)

9. 7.0 credits in free electives.

Total Credits 15.0

Minor in Environmental Studies
Open to all undergraduate students not in Environmental Studies programs.

Minor in Environmental Studies (4.0 credits)

1. 1.0 credit from:

ENST 1001 [1.0] Introduction to Environmental Studies
or ENST 1020 [0.5] People, Places and Environments

and GEOG 1010 [0.5] Global Environmental Systems
or GEOM 1004 [0.5] Maps, Satellites and the Geospatial Revolution
or FYSM 1100 [1.0] Sustainable Environments
or FYSM 1101 [1.0] Location is Everything
or FYSM 1107 [1.0] Social Justice and the City

2. 1.0 credit from:

ENST 2000 [0.5] Nature, Environment and Society: Theoretical Perspectives
ENST 2001 [0.5] Sustainable Futures: Environmental Challenges and Solutions
ENST 2500 [0.5] Climate Change: Social Science Perspectives

3. 1.0 credit from:

ENST 3000 [0.5] Environmental Studies Colloquium
ENST 3022 [0.5] Environmental and Natural Resources
GEOG 3501 [0.5] Geographies of the Canadian North

4. 1.0 credit from:

ENST 4006 [0.5] Environmental Policy Analysis
GEOG 3206 [0.5] Health, Environment, and Society
GEOG 3209 [0.5] Sustainability and Environment in the South
GEOG 4004 [0.5] Environmental Impact Assessment
GEOG 4022 [0.5] Seminar in People, Resources and Environmental Change
GEOG 4050 [0.5] Environmental and Geographic Education

Total Credits 4.0

APPROVED ENVIRONMENTAL STUDIES ELECTIVES
Please note that the Approved Electives below may have prerequisite requirements or could be cross-listed.

Architecture
ARCU 3902 [0.5] Urban Studies (Section A)
ARCC 3004 [0.5] Workshop: Energy and Form
ARCC 4103 [0.5] Energy and Form
ARCH 4105 [0.5] Theories of Landscape Design

Biology
BIOC 1010 [0.5] Biotechnology and Society
BIOC 1902 [0.5] Natural History
BIOC 2600 [0.5] Introduction to Ecology
BIOC 2903 [0.5] Natural History and Ecology of Ontario
BIOC 3601 [0.5] Ecosystems and Environmental Change
BIOC 3602 [0.5] Conservation Biology

Business
BUSI 3119 [0.5] Sustainability and the Role of Business

Earth Sciences
ERTH 2402 [0.5] Climate Change: An Earth Sciences Perspective
ERTH 2415 [0.5] Natural Disasters
ERTH 2403 [0.5] Introduction to Oceanography
ERTH 4303 [0.5] Resources of the Earth

Economics
ECON 3803 [0.5] The Economics of Natural Resources
ECON 3804 [0.5] Environmental Economics

Environmental Science
ENSC 2001 [0.5] Earth Resources and Natural Hazards: Environmental Impacts

Environmental Studies
ENST 1020 [0.5] People, Places and Environments
ENST 2001 [0.5] Sustainable Futures: Environmental Challenges and Solutions
ENST 2005 [0.5] Introduction to Qualitative Research
ENST 2006 [0.5] Introduction to Quantitative Research
ENST 2500 [0.5] Climate Change: Social Science Perspectives
ENST 3900 [0.5] Honours Field Course
ENST 4001 [0.5] Environmental Studies Practicum I
ENST 4002 [0.5] Environmental Studies Practicum II
ENST 4005 [0.5] Directed Studies in Environmental Studies
ENST 4006 [0.5] Environmental Policy Analysis
ENST 4400 [0.5] Field Studies

European and Eurasian Studies
First Year Seminars
FYSM 1610 [1.0] Understanding Environmental Discourse

Geomatics
GEOM 1004 [0.5] Maps, Satellites and the Geospatial Revolution
GEOM 2007 [0.5] Geographic Information Systems
GEOM 3002 [0.5] Air Photo Interpretation and Remote Sensing
GEOM 3005 [0.5] Geospatial Analysis
GEOM 4003 [0.5] Remote Sensing of the Environment
GEOM 4009 [0.5] Applications in Geographic Information Systems

Geography
GEOG 1010 [0.5] Global Environmental Systems
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<td>People, Places and Environments</td>
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<td>GEOG 2014 [0.5]</td>
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<td>GEOG 2600 [0.5]</td>
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<td>GEOG 3104 [0.5]</td>
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<td>GEOG 3105 [0.5]</td>
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<td>GEOG 3206 [0.5]</td>
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<td>SOCI 2040 [0.5]</td>
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<td>ANTH 4036 [0.5]</td>
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<td>TSES 2006 [0.5]</td>
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<td>TSES 4001 [0.5]</td>
<td>Technology and Society: Risk Forecasting</td>
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<td>TSES 4002 [0.5]</td>
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<td>TSES 4008 [0.5]</td>
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### Environmental Studies (ENST) Courses

#### 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 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.
Lecture two hours a week, discussion one hour 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 BIT 2000, BIT 2100 (no longer offered), BIT 2300 (no longer offered), NEUR 2002, PSCI 2702, STAT 2507, STAT 2606.
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 second-year 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]
Honours Field Course
Field research, with a focus on data collection methods, analysis and presentation of findings. Design and conduct research that links the human and biophysical environment. Topics may change from year to year. Also listed as GEOG 3000.
Precludes additional credit for ENST 2900 (no longer offered).
Prerequisite(s): GEOG 2005/ ENST 2005 and GEOG 2006/ ENST 2006, third-year Honours standing in Environmental Studies, Geomatics, or Geography, or permission of the Department.
Normally consists of a multi-day field excursion in the Ottawa region. A supplementary charge may apply. Consult the department regarding course details.

ENST 3999 [0.0 credit]
Co-operative Work Term
Work Term
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) Honours 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.
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): third-year Honours standing and 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, audio-visual 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, GEOM 4906, GEOM 4906, and 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), GEOG 4906 and GEOM 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