# Environmental Studies

## Program Requirements

### Bachelor of Arts

### Environmental Studies

#### B.A. Honours (20.0 credits)

<table>
<thead>
<tr>
<th>Credits In the Major CGPA (12.0 credits)</th>
<th>Credits</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 credit from:</td>
<td>1.0</td>
<td>ISCI 1001</td>
<td>Introduction to the Environment</td>
</tr>
<tr>
<td>1.0 credit from:</td>
<td>1.0</td>
<td>ENST 1020</td>
<td>People, Places and Environments</td>
</tr>
<tr>
<td>1.0 credit from:</td>
<td>1.0</td>
<td>GEOG 1010</td>
<td>Global Environmental Systems</td>
</tr>
<tr>
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<td>Introduction to Environmental Studies</td>
</tr>
<tr>
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<td>FYSM 1100</td>
<td>Sustainable Environments</td>
</tr>
<tr>
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<td>FYSM 1101</td>
<td>Location is Everything</td>
</tr>
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<td>1.0 credit from:</td>
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<td>FYSM 1107</td>
<td>Social Justice and the City</td>
</tr>
<tr>
<td>2.0 credits in:</td>
<td>2.0</td>
<td>ENST 2000</td>
<td>Nature, Environment and Society: Theoretical Perspectives</td>
</tr>
<tr>
<td>2.0 credits in:</td>
<td>2.0</td>
<td>ENST 2001</td>
<td>Sustainable Futures: Environmental Challenges and Solutions</td>
</tr>
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<td>ISCI 2000</td>
<td>Natural Laws</td>
</tr>
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<td>Human Impacts on the Environment</td>
</tr>
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<td>Introduction to Qualitative Research</td>
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<td>1.0 credit from:</td>
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<td>ENST 2006</td>
<td>Introduction to Quantitative Research</td>
</tr>
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<td>ENST 3000</td>
<td>Environmental Studies Colloquium</td>
</tr>
<tr>
<td>1.0 credit from:</td>
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<td>ENST 3022</td>
<td>Environmental and Natural Resources</td>
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<td>GEOG 3206</td>
<td>Health, Environment, and Society</td>
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<td>GEOG 3501</td>
<td>Geographies of the Canadian North</td>
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<tr>
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<td>Law of Environmental Quality</td>
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<td>1.0 credit from:</td>
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<td>PHIL 3380</td>
<td>Environments, Technology and Values</td>
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<tr>
<td>1.0 credit from:</td>
<td>1.0</td>
<td>PSCI 3801</td>
<td>Environmental Politics</td>
</tr>
<tr>
<td>1.0 credit from:</td>
<td>1.0</td>
<td>RELI 3710</td>
<td>Religions and the Environment</td>
</tr>
<tr>
<td>1.0 credit from:</td>
<td>1.0</td>
<td>TSES 3002</td>
<td>Energy and Sustainability</td>
</tr>
</tbody>
</table>

### Course Stream

1. Thesis Stream
   - 1.0 credit in:
     - ENST 4906 [1.0] Honours Research Project
     - ENST 4907 [1.0] Honours Research Essay

2. Course Stream
   - 1.0 credit in:
     - Approved Environmental Studies Electives at the 4000-level

### Major Electives

<table>
<thead>
<tr>
<th>Credits</th>
<th>Course Code</th>
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<tbody>
<tr>
<td>0.5</td>
<td>ENST 3900</td>
<td>Honours Field Course</td>
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<td>0.5</td>
<td>GEOG 3030</td>
<td>Regional Field Excursion</td>
</tr>
<tr>
<td>0.5</td>
<td>ENST 4000</td>
<td>Environmental Studies Seminar</td>
</tr>
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<td>0.5</td>
<td>GEOG 4006</td>
<td>Environmental Policy Analysis</td>
</tr>
<tr>
<td>0.5</td>
<td>GEOG 4022</td>
<td>Seminar in People, Resources and Environmental Change</td>
</tr>
<tr>
<td>0.5</td>
<td>GEOG 4023</td>
<td>Seminar in Special Topics on the City</td>
</tr>
<tr>
<td>0.5</td>
<td>GEOG 4004</td>
<td>Environmental Impact Assessment</td>
</tr>
<tr>
<td>0.5</td>
<td>GEOG 4050</td>
<td>Environmental and Geographic Education</td>
</tr>
</tbody>
</table>

### 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)

<table>
<thead>
<tr>
<th>Credits</th>
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</tr>
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<tbody>
<tr>
<td>1.0</td>
<td>ISCI 1001</td>
<td>Introduction to the Environment</td>
</tr>
<tr>
<td>1.0</td>
<td>GEOG 1010</td>
<td>Global Environmental Systems</td>
</tr>
<tr>
<td>1.0</td>
<td>GEOG 1020</td>
<td>People, Places and Environments</td>
</tr>
</tbody>
</table>

### Course Stream

1. 1.0 credit in:
   - ENST 1001 [1.0] Introduction to Environmental Studies |
   - FYSM 1100 [1.0] Sustainable Environments |
   - FYSM 1101 [1.0] Location is Everything |
   - FYSM 1107 [1.0] Social Justice and the City |

2. 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 |
   - ENST 2005 [0.5] Introduction to Qualitative Research |
   - ENST 2006 [0.5] Introduction to Quantitative Research |
   - ENST 3000 [0.5] Environmental Studies Colloquium |
   - ENST 3022 [0.5] Environmental and Natural Resources |

3. 0.5 credit in:
   - PHIL 2380 [0.5] Introduction to Environmental Ethics |

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 from:
   - 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 |
   - 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 |

8. 0.5 credit from:
   - ENST 4906 [1.0] Honours Research Project |
   - ENST 4907 [1.0] Honours Research Essay |

9. 0.5 credit in:
   - Approved Environmental Studies Electives at the 4000-level |

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

### Total Credits

- **15.0**

### Note

It may be necessary to use some of the free elective credits to fulfill prerequisite requirements for courses in the Major.
5. 0.5 credit in: PHIL 2380 [0.5] Introduction to Environmental Ethics

6. 1.0 credit in: ENST 3000 [0.5] Environmental Studies Colloquium
   or 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.

**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 GEOG 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** 15.0

**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)

**Biology**
- BIOL 1010 [0.5] Biotechnology and Society
- BIOL 1902 [0.5] Natural History
- BIOL 2600 [0.5] Introduction to Ecology
- BIOL 2903 [0.5] Natural History and Ecology of Ontario
- BIOL 3601 [0.5] Ecosystems and Environmental Change
- BIOL 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
<table>
<thead>
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<tr>
<td>GEOM 4009 [0.5]</td>
<td>Applications in Geographic Information Systems</td>
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<tr>
<td>POLI 3380 [0.5]</td>
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<tr>
<td>PHIL 3380 [0.5]</td>
<td>Philosophy, Ethics, and Public Affairs</td>
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<tr>
<td>LAWS 3005 [0.5]</td>
<td>Law and Regulation</td>
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<td>LAWS 3800 [0.5]</td>
<td>Law of Environmental Quality</td>
</tr>
<tr>
<td>LAWS 4800 [0.5]</td>
<td>Environment and Social Justice</td>
</tr>
<tr>
<td>LAWS 4000 [0.5]</td>
<td>Environmental Law</td>
</tr>
<tr>
<td>ISCI 1001 [0.5]</td>
<td>Introduction to the Environment</td>
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<tr>
<td>HUMR 3503 [0.5]</td>
<td>Global Environmental Justice</td>
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<tr>
<td>HIST 2311 [0.5]</td>
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<td>HIST 3209 [0.5]</td>
<td>Canadian Urban History</td>
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<td>Animals in History</td>
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</table>

Students should consult with the Department when planning their program and selecting courses. 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.

**B.A. Regulations**

The regulations presented below apply to all Bachelor of Arts programs. In addition to the requirements presented here, students must satisfy the University regulations common to all undergraduate students including the process of Academic Performance Evaluation (consult the Academic Regulations of the University section of this Calendar).

**First-Year Seminars**

B.A. degree students are strongly encouraged to include a First-Year Seminar (FYSM) during their first 4.0 credits of registration. Students are limited to 1.0 credit in FYSM and can only register in a FYSM while they have first-year standing in their B.A. program. Students who have completed the Enriched Support Program (ESP) or who are required to take a minimum of one English as a
Second Language (ESLA) credit are not permitted to register in a FYSM.

Breadth Requirement
Among the credits presented at graduation, students in both the B.A. General and the B.A. Honours degrees and B.Co.M.S. are required to include 3.0 breadth credits, including 1.0 credit from each of three of the four Breadth Areas identified below. Credits that fulfil requirements in the Major, Minor, Concentration or Specialization may be used to fulfil the Breadth Requirement.

Students admitted with a completed university degree are exempt from breadth requirements.

Students in the following interdisciplinary programs are exempt from the B.A. breadth requirement.

- African Studies
- Criminology and Criminal Justice
- Environmental Studies
- Human Rights

Breadth Area 1: Culture and Communication
American Sign Language, Art History, Art and Culture, Communication and Media Studies, Comparative Literary Studies, English, Film Studies, French, Journalism, Music, and Languages (Arabic, English as a Second Language, German, Greek, Hebrew, Indigenous Languages, Italian, Japanese, Korean, Latin, Mandarin, Portuguese, Russian, Spanish)

Subject codes: ARAB, ARTH, ASLA, CHIN, CLST, COMS, ENGL, ESA, FILM, FINS, FREN, GERM, GREK, HEBR, ITAL, JAPA, JOUR, LANG, LATN, MUSI, PORT, RUSS, SPAN

Breadth Area 2: Humanities

Subject codes: AFRI, ALDS, CDNS, CHST, CLCV, DBST, DIST, EURR, HIST, HUMR, HUMS, INDG, LACS, LING, MEMS, PHIL, RELI, SAST, SXST, WGST

Breadth Area 3: Science, Engineering, and Design

Subject codes: AERO, ARCC, ARCH, ARCN, ARCS, ARCU, BIOL, BIOL, CHEM, CIVE, CMPS, COMP, ECO, ELEC, ENSC, ENV, ERTH, FOOD, HLTH, IDES, ISCI, ISCS, ISYS, MAAE, MATH, MECH, NEUR, NSCI, PHYS, SREE, STAT, SYSC, TSES

Breadth Area 4: Social Sciences

Subject codes: ANTH, BUSI, CGSC, CRCJ, ECON, ENST, GEOG, GEOM, GINS, GPOL, INAF, IPAF, LAWS, MGDS, PADM, PAPM, POLM, PSCI, PSYC, SOCI, SOWK

Declared and Undeclared Students
Students who are registered in a program within the degree are called Declared students. Most students designate a program of study when they first apply for admission and so begin their studies as Declared students. Students may also choose to begin their studies within the B.A. degree without being registered in a program. These students are referred to as Undeclared. The recommended course pattern for Undeclared students is outlined under Undeclared in the Programs section of this Calendar. Undeclared students must apply to enter a program before beginning their second year of study. The Student Academic Success Centre offers support to Undeclared students in making this decision.

Change of Program Within the B.A. Degree
Students may transfer to a program within the B.A. degree, if upon entry to the new program they would be in Good Standing. Other applications for change of program will be considered on their merits; students may be admitted to the new program in Good Standing or on Academic Warning. Students may apply to declare or change their program within the B.A. Degree at the Registrar's Office according to the published deadlines. Acceptance into a program or into a program element or option is subject to any enrollment limitations, specific program, program element or option requirements, as published in the relevant Calendar entry.

Minors, Concentrations and Specializations
Students may apply to the Registrar's Office to be admitted to a minor, concentration or specialization during their first or subsequent years of study. Acceptance into a minor, concentration or specialization is subject to any specific requirements of the intended Minor, Concentration or Specialization as published in the relevant Calendar entry. Acceptance into a Concentration or Specialization requires that the student be in Good Standing.

Mention : Français
Students registered in certain B.A. programs may earn the notation Mention : Français by completing part of their requirements in French and by demonstrating a knowledge of the history and culture of French Canada. The general requirements are listed below. For more specific details consult the departmental program entries.

Students in a B.A. Honours program must present:
1. 1.0 credit in French language;
2. 1.0 credit devoted to the history and culture of French Canada;
3. 1.0 credit at the 2000- or 3000-level and 1.0 credit at the 4000-level in the Honours discipline taken in French.

Students in a B.A. General program must present:
1. 1.0 credit in advanced French;
2. 1.0 credit devoted to the history and culture of French Canada;
3. 1.0 credit at the 2000- or 3000-level in the Major discipline taken in French.

Students in Combined Honours programs must fulfil the Mention : Français requirement in both disciplines.

Courses taught in French (Item 3, above) may be taken at Carleton, at the University of Ottawa on the Exchange Agreement, or at a francophone university on a Letter of Permission. Students planning to take courses on exchange or on a Letter of Permission should take careful note of the residence requirement for a minimum number of Carleton courses in their programs. Consult the Academic Regulations of the University section of this Calendar for information regarding study on Exchange or Letter of Permission.

Admissions Information
Admission Requirements are for the 2017-2018 year only, and are based on the Ontario High School System. Holding the minimum admission requirements only establishes eligibility for consideration. The cut-off averages for admission may be considerably higher than the minimum. See also the General Admission and Procedures section of this Calendar. An overall average of at least 70% is normally required to be considered for admission. Some programs may also require specific course prerequisites and prerequisite averages and/or supplementary admission portfolios. Higher averages are required for admission to programs for which the demand for places by qualified applicants exceeds the number of places available. The overall average required for admission is determined each year on a program by program basis. Consult admissions.carleton.ca for further details.

Admission Requirements

Degrees
• Bachelor of Arts (B.A.)(Honours)
• Bachelor of Arts (B.A.)(General)

First Year
For B.A. (General) and B.A. (Honours)
The Ontario Secondary School Diploma (OSSD) or equivalent including a minimum of six 4U or M courses. The six 4U or M courses must include a 4U course in English (or anglais). For applicants whose first language is not English, the requirement of English can also be met under the conditions outlined in the section “English Language Requirements” in the Admissions Requirements and Procedures section of this Calendar.

The cut-off average for admission will be set annually and will normally be above the minimum requirement. Applicants falling slightly below the cut-off average will be considered on an individual basis to determine whether there are special circumstances that would permit their admission. Students who feel that their high school grade average does not reflect their potential may apply to the Enriched Support Program (see the Enriched Support Program section of this Calendar).

Advanced Standing

B.A. (General and Honours) Program
Applications for admission to the second or subsequent years will be assessed on their merits. Advanced standing will be granted only for those courses that are determined to be appropriate.

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, GEOG 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