

Environmental Studies

This section presents the requirements for programs in:

- **Environmental and Climate Change Studies B.A. Honours**
- **Environmental Studies B.A.**
- **Minor in Environmental Studies**

Program Requirements

Approved Environmental Studies Electives

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

Architecture

ARCH 4105 [0.5] Theories of Landscape Design

ARCH 4201 [0.5] History of Modern Housing

ARCU 4103 [0.5] Cities

ARCU 4700 [0.5] Urban Utopias

Biology

BIOL 1010 [0.5] Biotechnology and Society

BIOL 1902 [0.5] Natural History

BIOL 2600 [0.5] 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] Business and Environmental Sustainability

Earth Sciences

ERTH 2402 [0.5] Climate Change: An Earth Sciences Perspective

ERTH 2403 [0.5] Introduction to Oceanography

ERTH 2415 [0.5] Natural Disasters

Economics

ECON 3803 [0.5] The Economics of Natural Resources

ECON 3804 [0.5] Environmental Economics

English

ENGL 3920 [0.5] Literary Ecological Fieldwork

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 3500 [0.5] Climate Justice and Action: Organizing for a Just, Equitable and Sustainable World

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 4007 [0.5] Special Topics in Geography and Environmental Studies

ENST 4050 [0.5] Environmental and Geographic Education

ENST 4400 [0.5] Field Studies

ENST 4450 [0.5] Community-Engaged Research

First Year Seminars

FYSM 1101 [1.0] Location is Everything

FYSM 1107 [1.0] Social Justice and the City

FYSM 1108 [0.5] Sustainable Environments

FYSM 1610 [1.0] Understanding Environmental Discourse

Geomatics

GEOM 1004 [0.5] Maps, Satellites and the Geospatial Revolution

GEOM 2007 [0.5] Vector GIS: Points, Lines and Polygons

GEOM 3002 [0.5] Introduction to Remote Sensing

GEOM 3005 [0.5] Geospatial Analysis

GEOM 4003 [0.5] Remote Sensing of the Environment

GEOM 4009 [0.5] Custom Geomatics Applications

Geography

GEOG 1010 [0.5] Global Environmental Systems

GEOG 1020 [0.5] People, Places and Environments

GEOG 2013 [0.5] Weather and Water

GEOG 2014 [0.5] The Earth's Surface

GEOG 2020 [0.5] Ecosystems of Canada

GEOG 2023 [0.5] Cities, Inequality and Urban Change

GEOG 2200 [0.5] Global Connections

GEOG 2300 [0.5] Space, Place and Culture

GEOG 2500 [0.5] Climate Change: Social Science Perspectives

GEOG 2600 [0.5] Geography Behind the Headlines

GEOG 3001 [0.5] Doing Qualitative Research

GEOG 3003 [0.5] Quantitative Geography

GEOG 3010 [0.5] Field Methods in Physical Geography

GEOG 3021 [0.5] Geographies of Culture and Identity

GEOG 3022 [0.5] Environmental and Natural Resources

GEOG 3023 [0.5] Cities in a Global World

GEOG 3024 [0.5] Understanding Globalization

GEOG 3030 [0.5] Regional Field Excursion

GEOG 3103 [0.5] Watershed Hydrology

GEOG 3104 [0.5]	Principles of Biogeography
GEOG 3105 [0.5]	Climate and Atmospheric Change
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 Special Topics on the City
GEOG 4323 [0.5]	Urban and Regional Planning
GEOG 4450 [0.5]	Community-Engaged Research

History

HIST 2311 [0.5]	Environmental History of Canada
HIST 3310 [0.5]	Animals in History

Human Rights

HRSJ 3503 [0.5]	Global Environmental Justice
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Indigenous Studies

INDG 2015 [0.5]	Indigenous Relationalities, Kinships, and Knowledges
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Interdisciplinary Science

ISCI 1001 [0.5]	Introduction to the Environment
ISCI 2000 [0.5]	Natural Laws
ISCI 2002 [0.5]	Human Impacts on the Environment

Law

LAWS 3005 [0.5]	Law and Regulation
LAWS 3800 [0.5]	Environmental Law
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]	Institutions and Power in Canadian Politics
PSCI 2602 [0.5]	International Relations: Global Political Economy
PSCI 3801 [0.5]	Environmental Politics
PSCI 4808 [0.5]	Global Environmental Politics

Sociology and Anthropology

ANTH 2850 [0.5]	Anthropology of Development
ANTH 3355 [0.5]	Anthropology and the Environment
ANTH 4036 [0.5]	Special Topics in Science and Technology Studies
SOCI 2035 [0.5]	Technology, Culture and Society
SOCI 2040 [0.5]	Food, Culture and Society

SOCI 3038 [0.5]	Studies in Urban Sociology
SOCI 3805 [0.5]	Studies in Population

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

Bachelor of Arts

Environmental and Climate Change Studies B.A. Honours (20.0 credits)

A. Credits Included in the Major CGPA (11.0 credits)

1. 1.0 credit in:		1.0
ENST 1000 [0.5]	Introduction to Environmental and Climate Change Studies	
or ENST 1020 [0.5]	People, Places and Environments	
GEOG 1010 [0.5]	Global Environmental Systems	
2. 1.5 credit in:		1.5
ENST 2000 [0.5]	Environmental Justice	
ENST 2001 [0.5]	Sustainable Futures: Environmental Challenges and Solutions	
ENST 2500 [0.5]	Climate Change: Social Science Perspectives	
3. 0.5 credit from:		0.5
GEOG 2013 [0.5]	Weather and Water	
GEOG 2014 [0.5]	The Earth's Surface	
GEOG 2020 [0.5]	Ecosystems of Canada	
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]	Nature, Environment and Society	
ENST 3022 [0.5]	Environmental and Natural Resources	
6. 0.5 credit from:		0.5
INDG 2015 [0.5]	Indigenous Relationalities, Kinships, and Knowledges	
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	
HRSJ 3503 [0.5]	Global Environmental Justice	
LAWS 3800 [0.5]	Environmental Law	
PHIL 3380 [0.5]	Environments, Technology and Values	
PSCI 3801 [0.5]	Environmental Politics	

TSES 3002 [0.5]	Energy and Sustainability	
8. 0.5 credit from:		0.5
ENST 3900 [0.5]	Honours Field Course	
GEOG 3030 [0.5]	Regional Field Excursion	
9. 0.5 credit in:		0.5
ENST 4000 [0.5]	Environmental and Climate Change 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 Special Topics on the City	
GEOG 4004 [0.5]	Environmental Impact Assessment	
ENST 4050 [0.5]	Environmental and Geographic Education	
11. 1.0 credit in:		1.0
a) Thesis pathway		
1.0 credit from:		
ENST 4906 [1.0]	Honours Research Project	
ENST 4907 [1.0]	Honours Research Essay	
or		
b) Course pathway		
1.0 credit in Approved Environmental Studies Electives at the 4000 level		
12. 0.5 credit in:		0.5
a) Co-op students must complete:		
Approved Environmental Studies electives at 4000 level, excluding ENST 4001 and ENST 4002		
b) All other students must complete one of:		
ENST 4001 [0.5]	Environmental Studies Practicum I	
ENST 4002 [0.5]	Environmental Studies Practicum II	
13. 0.5 credit in	Approved Environmental Studies Electives at the 3000 level or above	0.5
14. 1.0 credit in	Approved Environmental Studies Electives	1.0
B. Credits Not Included in the Major CGPA (9.0 credits)		
15. 9.0 credits in	free electives	9.0
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. (15.0 credits)

A. Credits Included in the Major CGPA (7.0 credits)

1. 1.0 credit in:		1.0
ENST 1000 [0.5]	Introduction to Environmental and Climate Change Studies	
or ENST 1020 [0.5]	People, Places and Environments	
GEOG 1010 [0.5]	Global Environmental Systems	
2. 1.0 credit in:		1.0
ENST 2000 [0.5]	Environmental Justice	
ENST 2001 [0.5]	Sustainable Futures: Environmental Challenges and Solutions	
3. 0.5 credit from:		0.5
GEOG 2013 [0.5]	Weather and Water	
GEOG 2014 [0.5]	The Earth's Surface	

GEOG 2020 [0.5]	Ecosystems of Canada	
4. 1.0 credit from:		1.0
ENST 2005 [0.5]	Introduction to Qualitative Research	
ENST 2006 [0.5]	Introduction to Quantitative Research	
GEOG 1004 [0.5]	Maps, Satellites and the Geospatial Revolution	
5. 1.0 credit in:		1.0
ENST 3000 [0.5]	Nature, Environment and Society	
ENST 3022 [0.5]	Environmental and Natural Resources	
6. 0.5 credit from:		0.5
INDG 2015 [0.5]	Indigenous Relationalities, Kinships, and Knowledges	
PHIL 2380 [0.5]	Introduction to Environmental Ethics	
7. 1.0 credit in	Approved Environmental Studies Electives	1.0
8. 1.0 credit in	Approved Environmental Studies Electives at the 3000 level or above	1.0
B. Credits Not Included in the Major CGPA (8.0 credits)		
9. 8.0 credits in	free electives.	8.0
Total Credits		15.0

Minor in Environmental Studies

Open to all undergraduate students not in Environmental Studies programs.

Students are required to present a Minor CGPA of 4.00 or higher at graduation in order to be awarded a Minor in Environmental Studies.

Minor in Environmental Studies (4.0 credits)

1. 1.0 credit in:		1.0
FYSM 1101 [1.0]	Location is Everything	
or FYSM 1107 [1.0]	Social Justice and the City	
OR		
0.5 credit from:		
ENST 1000 [0.5]	Introduction to Environmental and Climate Change Studies	
FYSM 1108 [0.5]	Sustainable Environments	
ENST 1020 [0.5]	People, Places and Environments	
and 0.5 credit from:		
GEOG 1010 [0.5]	Global Environmental Systems	
GEOG 1004 [0.5]	Maps, Satellites and the Geospatial Revolution	
2. 1.0 credit from:		1.0
ENST 2000 [0.5]	Environmental Justice	
ENST 2001 [0.5]	Sustainable Futures: Environmental Challenges and Solutions	
ENST 2500 [0.5]	Climate Change: Social Science Perspectives	
3. 1.0 credit from:		1.0
ENST 3000 [0.5]	Nature, Environment and Society	
ENST 3022 [0.5]	Environmental and Natural Resources	
GEOG 3501 [0.5]	Geographies of the Canadian North	
4. 1.0 credit from:		1.0
ENST 4006 [0.5]	Environmental Policy Analysis	

ENST 4050 [0.5]	Environmental and Geographic Education
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
INDG 2015 [0.5]	Indigenous Relationalities, Kinships, and Knowledges
INDG 3015 [0.5]	Indigenous Cosmologies
Total Credits	4.0

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 Continuation 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.

Breadth Requirement

Among the credits presented at graduation, students in both the B.A. and the B.A. Honours degrees and B.Co.M.S. are required to include 3.0 breadth credits, which must include 1.0 credit in three of the four breadth areas identified below. Credits that fulfil requirements in the Major, Minor, Concentration, Specialization, or Stream may also 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
- Human Rights and Social Justice

Breadth Area 1: Culture and Communication

American Sign Language, Art History, Art and Culture, Communication and Media Studies, Digital Humanities, English, Film Studies, French, Journalism, Media Production and Design, 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, COMS, DIGH, ENGL, ESLA, FILM, FINS, FREN, GERM, GREK, HEBR, ITAL, JAPA, JOUR, KORE, LANG, LATN, MPAD, MUSI, PORT, RUSS, SPAN

Breadth Area 2: Humanities

African Studies, Applied Linguistics and Discourse Studies, Archaeology, Canadian Studies, Child Studies, Classical Civilization, Critical Race Studies, Directed Interdisciplinary Studies, Disability Studies, Environmental and Climate Humanities, European and Russian Studies, History, Human Rights and Social Justice, Humanities, Indigenous Studies, Latin American and Caribbean Studies, Linguistics, Medieval and Early Modern Studies, Philosophy, Religion, Sexuality Studies, South Asian Studies, and Women's and Gender Studies.

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

Breadth Area 3: Science, Engineering, and Design

Architecture, Biology, Chemistry, Computer Science, Data Science, Earth Sciences, Engineering, Environmental Science, Food Science and Nutrition, Health Sciences, Industrial Design, Information Resource Management, Information Technology (BIT), Information Technology (ITEC), Interactive Multimedia and Design, Interdisciplinary Science and Practice, Mathematics, Neuroscience, Network Technology, Nursing, Optical Systems and Sensors, Photonics, Statistics, Physics, and Technology, Society, Environment.

Subject codes: ACSE, AERO, ARCC, ARCH, ARCN, ARCS, ARCU, BIOC, BIOL, BIT, CHEM, CIVE, COMP, CSEC, DATA, ECOR, ELEC, ENSC, ENVE, EARTH, FOOD, HLTH, IDES, IMD, IRM, ISAP, ISCI, ISCS, ISYS, ITEC, MAAE, MATH, MECH, MECT, NET, NEUR, NSCI, NURS, OSS, PHYS, PLT, SREE, STAT, SYSC, TSES

Breadth Area 4: Social Sciences

Anthropology, Business, Cognitive Science, Criminology and Criminal Justice, Economics, Environmental Studies, Geography, Geomatics, Global and International Studies, Global Politics, Interdisciplinary Public Affairs, International Affairs, Law, Migration and Diaspora Studies, Political Management, Political Science, Psychology, Public Administration, Public Affairs and Policy Management, Social Work, Sociology/Anthropology, Sociology

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

Declared and Undeclared Students

Degree students are considered "Undeclared" if they have been admitted to a degree, but have not yet selected and been accepted into a program within that degree. The status "Undeclared" is available only in the B.A. and B.Sc. degrees. Undeclared students must apply to enter a program upon or before completing 3.5 credits.

Change of Program Within the B.A. Degree

To transfer to a program within the B.A. degree, applicants must normally be *Eligible to Continue* (EC) in the new program, by meeting the CGPA thresholds described in Section 3.1.9 of the *Academic Regulations of the University*.

Applications to declare or change programs within the B.A. degree online must be made online through Carleton Central by completing a Change of Program Elements (COPE) application form within the published deadlines. Acceptance into a program, or into a program element or option, is subject to any enrollment limitations, as well as specific program, program element, or option requirements as published in the relevant Calendar entry.

Minors, Concentrations, and Specializations

Students may add a Minor, Concentration, or Specialization by completing a Change of Program Elements (COPE) application form online through Carleton Central. Acceptance into a Minor, Concentration, or Specialization normally requires that the student be *Eligible to Continue* (EC) and is subject to any specific requirements of the intended Minor, Concentration, or Specialization as published in the relevant Calendar entry and in Section 3.1.9 of the *Academic Regulations of the University*.

Mention : français

Students registered in certain B.A. programs may earn the diploma notation *Mention : français* by completing part of their program requirements in French, and by demonstrating 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 in the Honours discipline taken in French; and
4. 1.0 credit at the 4000-level in the Honours discipline taken in French.

Students in a B.A. 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 (Items 3 and 4, 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.

Co-operative Education

For more information about how to apply for the Co-op program and how the Co-op program works please visit the Co-op website.

All students participating in the Co-op program are governed by the Undergraduate Co-operative Education Policy.

Undergraduate Co-operative Education Policy Admission Requirements

Students can apply to Co-op in one of two ways: directly from high school, or after beginning a degree program at Carleton.

If a student applies to a degree program with a Co-op option from high school, their university grades will be reviewed two terms to one year prior to their first work term to ensure they meet the academic requirements after their first or second year of study. The time at which the evaluation takes place depends on the program of study. Students will automatically receive an admission decision via their Carleton email account.

Students who did not request Co-op at the time they applied to Carleton can request Co-op after they begin their university studies. To view application instructions and deadlines, please visit carleton.ca/co-op.

To be admitted to Co-op, a student must successfully complete 5.0 or more credits that count towards their degree, meet the minimum CGPA requirement(s) for the student's Co-op option, and fulfil any specified course prerequisites. To see the unique admission and continuation requirements for each Co-op option, please refer to the specific degree programs listed in the Undergraduate Calendar.

Participation Requirements

Co-op Participation Agreement

All students must adhere to the policies found within the Co-op Participation Agreement.

COOP 1000

Once a student has been admitted to the Co-op Program, they will be given access to register in COOP 1000. This zero-credit online course must be completed at least two terms prior to the student's first work term.

Communication with the Co-op Office

Students must maintain contact with the Co-op Office during their job search and while on a work term. All email communication will be conducted via the students' Carleton email account.

Employment

Although every effort is made to ensure a sufficient number of job postings for all Co-op students, no guarantee of employment can be made. The Co-op job search process is competitive, and success is dependent upon factors such as current market conditions, academic

performance, skills, motivation, and level of commitment to the job search. It is the student's responsibility to apply for positions via the Co-op job board in addition to actively conducting a self-directed job search. Students who do not obtain a co-op work term are expected to continue with their academic studies. It should be noted that hiring priority for positions within the Federal Government of Canada is given to Canadian citizens.

Registration

- Students must be registered as full-time during all fall and winter study terms beginning the term in which they enroll in COOP 1000.
- Students will be registered in a Co-op Work Term course while at work. This course does not carry academic course credit, but is noted on academic transcripts.
- Students may register in a 0.5 credit during a work term, provided the course is offered during the evening or is offered asynchronously online.
- Students must have at least one term of full-time studies left to complete following their final co-op work term. Students cannot end their degree on a work term.

Work Term Assessment and Evaluation

Work Term Evaluation

Employers are responsible for submitting to Carleton University final performance evaluations for their Co-op students at the end of their work terms.

Work Term Assessment

In order to successfully complete the co-op work term, students must receive a Satisfactory (SAT) grade on their Co-op Work Term Report, which they must submit at the completion of each four-month work term.

Graduation with the Co-op Designation

In order to graduate with the Co-op Designation, students must satisfy all requirements of the degree program in addition to the successful completion of three or four work terms (the number is dependent upon the student's academic program). Students found in violation of the Co-op Participation Agreement may have the Co-op Designation withheld.

Note: Participation in the co-op option will add up to one additional year for a student to complete their degree program.

Voluntary Withdrawal from the Co-op Option

Students who are currently on a co-op work term or who have already committed to a co-op work term either verbally or in writing may not leave the position and/or withdraw from the co-op option until they have completed the work term and all related requirements.

Involuntary or Required Withdrawal from the Co-op Option

Students may be removed from the Co-op Program for any of the following reasons:

1. Failure to achieve a grade of SAT in COOP 1000;
2. Failure to attend all interviews for positions to which the student has applied;
3. Declining more than one job offer during the job search;
4. Reneging on a co-op position that the student has accepted either verbally or in writing;
5. Continuing a job search after accepting a co-op position;
6. Dismissal from a work term by the co-op employer;
7. Leaving a work term without approval from the Co-op Management Team;
8. Receipt of an unsatisfactory work term evaluation;
9. Receiving a grade of UNS on the work term report.

International Students

All international students are required to possess a Co-op Work Permit issued by Immigration, Refugees and Citizenship Canada before they can begin working. The Co-operative Education Office will provide students with a letter of support to accompany their Co-op Work Permit application. Students are advised to discuss the application process and application requirements with the International Student Services Office.

Co-op Fees

All participating Co-op students are required to pay Co-op fees. For full details, please see the Co-op website.

B.A. Honours Environmental Studies: Co-op Admission and Continuation Requirements

- Maintain full-time status in each study term;
- Be eligible to work in Canada (for off-campus work);
- Have successfully completed COOP 1000.

In addition to the following:

1. Registered as a full-time student in the B.A. Honours Environmental Studies program;
2. Obtained third-year standing;
3. Successfully completed, by the start-date of the first work term, ENST 2005, ENST 2006, and ENST 3900;
4. Obtained an Overall CGPA of at least 9.50 and a Major CGPA of at least 9.50. These CGPAs must be maintained throughout the duration of the degree.

B.A. Honours Environmental Studies students must successfully complete three (3) work terms to obtain the Co-op Designation.

Co-op work term course: ENST 3999

Work/Study Pattern:

Year 1		Year 2		Year 3		Year 4		Year 5	
Term	Pattern	Term	Pattern	Term	Pattern	Term	Pattern	Term	Pattern
Fall	S	Fall	S	Fall	S	Fall	W	Fall	S
Winter	S	Winter	S	Winter	S	Winter	W	Winter	S
Summer		Summer		Summer	W	Summer	W		

Legend

S: Study

W: Work

Admissions Information

Admission Requirements are for the 2025-26 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.

Note: Courses listed as *recommended* are not mandatory for admission. Students who do not follow the recommendations will not be disadvantaged in the admission process.

Admissions Information

Admission requirements are based on the Ontario High School System. Prospective students can view the admission requirements through the Admissions website at admissions.carleton.ca. The overall average required for admission is determined each year on a program-by-program basis. Holding the minimum admission requirements only establishes eligibility for consideration; higher averages are required for admission to programs for which the demand for places by qualified applicants exceeds the number of places available. All programs have limited enrolment and admission is not guaranteed. Some programs may also require specific course prerequisites and prerequisite averages and/or supplementary admission portfolios. Consult admissions.carleton.ca for further details.

Note: If a course is listed as *recommended*, it is not mandatory for admission. Students who do not follow the recommendations will not be disadvantaged in the admission process.

Admission Requirements

Degrees

- Bachelor of Arts (B.A.) (Honours)
- Bachelor of Arts (B.A.)

First Year

For B.A. 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*). Applicants submitting an English language test to satisfy the requirements of the English Language Proficiency section of this Calendar may use that test to also satisfy the 4U English prerequisite requirement.

Biology

For the major in Biology in the B.A. program, in addition to the 4U English, a 4U course in Chemistry is required. Advanced Functions, and Calculus and Vectors are recommended.

Criminology and Criminal Justice

Access to the CCJ B.A. degree is limited to students already registered in the CCJ B.A. Honours who apply to transfer, and to graduates of the Algonquin College Police Foundations program.

Advanced Standing

Applications for admission beyond first year will be assessed on their merits. Applicants must normally be Eligible to Continue in their year level, in addition to meeting the CGPA thresholds described in Section 3.1.9 of the Academic Regulations of the University. Advanced standing will be granted only for those subjects assessed as being appropriate for the program and the stream selected.

Co-op Option

Direct Admission to the 1st Year of the Co-op Option

Co-op is available for the following Majors in the B.A. (Honours) degree: Anthropology, English, Environmental Studies, European and Russian Studies, French, Geography, Geomatics, History, Law, Political Science, Psychology, Sociology.

Applicants must:

1. meet the required overall admission cut-off average and prerequisite course average. These averages may be higher than the stated minimum requirements;
2. be registered as a full-time student in the Bachelor of Arts Honours with one of the majors listed above;
3. be eligible to work in Canada (for off-campus work placements).

Meeting the above requirements only establishes eligibility for admission to the program. The prevailing job market may limit enrolment in the co-op option. Students should also note that hiring priority is given to Canadian citizens for co-op positions in the Public Service Commission.

Note: continuation requirements for students previously admitted to the co-op option and admission requirements for the co-op option after beginning the program are described in the Co-operative Education Regulations section of this Calendar.

Advanced Standing

B.A. and B.A. (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 1000 [0.5 credit]

Introduction to Environmental and Climate Change Studies

A critical introduction to the scholarly field of environmental studies, with an emphasis on society-environment entanglements. It is designed to engage with environmental and climate change issues. Possible themes include population, scarcity, institutions, commons, risks, hazards, markets, political economy, and the social construction of nature.

Precludes additional credit for FYSM 1100 and ENST 1001 (no longer offered).

Lecture two hours and workshops/tutorials one hour 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, including climate change, that shape human activity and experiences from place to place.

Includes: Experiential Learning Activity

Also listed as GEOG 1020.

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

ENST 2000 [0.5 credit]

Environmental Justice

Contemporary and foundational theories, practice and praxis of environmental justice in Canadian and comparative settings. Combine and communicate about aspects of the physical, built and social environments to understand how uneven conditions develop. Strategies and ideas to move towards greater equity and good environmental relationships.

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, such as climate change. 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.

Includes: Experiential Learning Activity

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.

Includes: Experiential Learning Activity

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.

Includes: Experiential Learning Activity

Also listed as GEOG 2006.

Precludes additional credit for BIT 2000, BIT 2009, BIT 2100 (no longer offered), BIT 2300 (no longer offered), DATA 1517, ECON 2210, NEUR 2002, PSCI 2702, STAT 2507, STAT 2601, 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 as a political, economic and socio-cultural phenomenon, including the political-economic and world-historical causes of anthropogenic greenhouse gas emissions; variations in impact and vulnerability; climate justice and other political movements; global mitigation and adaptation strategies; and proposals for radical systemic change.

Includes: Experiential Learning Activity

Also listed as GEOG 2500.

Prerequisite(s): second-year standing or permission of the department.

Lectures two hours a week, discussion groups one hour a week.

ENST 3000 [0.5 credit]**Nature, Environment and Society**

Overview of social science perspectives analyzing the relationship of nature and society. Examination of environmental problems, responses, and potential solutions through the study of concepts, theories, and research drawn from a range of scholarly approaches to environmental and climate change studies.

Includes: Experiential Learning Activity

Prerequisite(s): third-year standing in Environmental Studies or permission of the department.

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.

Includes: Experiential Learning Activity

Also listed as GEOG 3022.

Prerequisite(s): third-year standing in Geography or Environmental Studies or BGInS Specialization/Stream in Globalization and Environment or permission of the Department.

Lecture three hours a week.

ENST 3500 [0.5 credit]**Climate Justice and Action: Organizing for a Just, Equitable and Sustainable World**

Exploration of how communities and movements fight the climate crisis and build alternative futures. It combines critical theory with hands-on learning to examine the collective actions and organizing strategies through which social movements tackle the systemic factors shaping climate change and its uneven impacts.

Prerequisite(s): third-year standing 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.

Includes: Experiential Learning Activity

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**

Includes: Experiential Learning Activity

ENST 4000 [0.5 credit]**Environmental and Climate Change Studies Seminar**

An advanced seminar designed to provide a capstone experience that builds upon and applies the analytical skills and interdisciplinary knowledge acquired in the Environmental Studies program. Topics vary year to year and by course section (see departmental website).

Includes: Experiential Learning Activity

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**

Students apply their knowledge and research skills and gain experience through field placements in government, the private sector, non-government organisations and with community organisations in the environmental field.

Includes: Experiential Learning Activity

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**

Students apply their knowledge and research skills and gain experience through field placements in government, the private sector, non-government organisations and with community organisations in the environmental field.

Includes: Experiential Learning Activity

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

ENST 4004 [0.5 credit]**Environmental Impact Assessment**

Principles, scope and purpose of environmental impact assessment, from conceptual and methodological points of view; range of environmental issues, with emphasis on Canadian case studies.

Includes: Experiential Learning Activity

Also listed as GEOG 4004.

Prerequisite(s): GEOG 3022 or ENST 3022, and fourth-year Honours standing in Geography or Environmental Studies or Environmental Science, or permission of the Department.

Lectures and seminars three hours per week.

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.

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 4007 [0.5 credit]**Special Topics in Geography and Environmental Studies**

Selected topics in geography and/or environmental studies.

Also listed as GEOG 4007.

Precludes additional credit for GEOG 4006 (no longer offered).

Prerequisite(s): fourth-year Honours standing in the Department or permission of the Department.

Seminar three hours per week.

ENST 4022 [0.5 credit]**Seminar in People, Resources, and Environmental Change**

A selected topic or field of inquiry concerning natural resource use and environmental change.

Also listed as GEOG 4022.

Prerequisite(s): GEOG 3022 or ENST 3022 and fourth-year Honours standing in Geography or Environmental Studies or BGIInS Specialization in Globalization and Environment, or permission of the Department.

Seminar three hours per week.

ENST 4050 [0.5 credit]**Environmental and Geographic Education**

Selected theoretical and applied issues concerning environmental and geographic education.

Also listed as GEOG 4050.

Prerequisite(s): Third-year honours standing in Geography or Environmental Studies, 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.

Includes: Experiential Learning Activity

Also listed as GEOG 4000.

Prerequisite(s): third-year Honours standing and permission of the Department.

Hours to be arranged.

ENST 4450 [0.5 credit]**Community-Engaged Research**

Working in partnership with local organizations, students apply their geographical knowledge to conduct community-engaged research. Student projects will generate outputs for community partners. Research topics vary year to year.

Includes: Experiential Learning Activity

Also listed as GEOG 4450.

Prerequisite(s): fourth-year standing, or permission of the department.

Lectures, discussion and project work three hours a week.

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.

Includes: Experiential Learning Activity

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.

Includes: Experiential Learning Activity

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.