

**York Senate, June 15, 2017**

**Motion in Principle:**

That Senate approve, in principle, the establishment of a new Faculty comprising the Faculty of Environmental Studies, the LA&PS Department of Geography, and potentially other departmental units or programs.

**Rationale for the Creation of a New Faculty at York University  
Combining the Department of Geography and the Faculty of  
Environmental Studies**



## **Vision**

Drawing on existing strengths within the institution, the creation of a new Faculty, combining the Faculty of Environmental Studies with the Department of Geography, would provide exciting opportunities for innovative programs that would make YU a destination for students and researchers in scholarly and professional disciplines and fields across the spectrum of academic practice. This new faculty would be a dominant player in Canada and beyond for spatial-urban-environmental research, teaching and professional practice, but also permit new synergies in cultural environmental studies, environmental sciences and Northern studies for example, which would provide both international and internal recognition. The new faculty will provide greater intellectual richness for faculty and students, support quality undergraduate and graduate education, and by creating a hub of geographic and environmental activity at York, build visibility and recognition to the outside world.

## **Context**

There are obvious overlaps and synergies between the Department of Geography and the Faculty of Environmental Studies that could allow for the elimination of curricular redundancies and the creation of new innovative programs at York. This was recently recognized by the Cyclical Program Reviews in both units<sup>1</sup>. This is a long-standing conversation historically for these two units, but we are ready now to seriously engage in the discussions and planning to make the combination a reality. We are exploring questions of institutional housing and relations among the various faculties, programs, certificates, and research units at York University that may be disciplinarily-related but are currently separate.

Creating a new Faculty provides clarity of identity because many environmental studies and geography units are merging in the province, nationally and internationally (see Appendix A). It also provides serious competition to a recently announced high-profile U of T initiative launching a new School of Cities. This changing landscape provides an opportunity for York to bring together its faculty in related areas to make a stronger, more sustainable, and more attractive academic destination.

## **Congruence with the University Academic Plan and the Strategic Research Plan (SRP)**

Combining the two units is consistent with the University Academic Plan's goals of facilitating student success, increasing the quality of academic programs, achieving research excellence, and fostering engagement and outreach. As research in FES and Geography is focused on the SRP areas of Public Engagement for a Just and Sustainable World and the Scholarship of Socially Engaged Research, the combined synergies of the new Faculty will follow on the stated goals of the SRP to enhance these areas in the next five years.

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<sup>1</sup> Cyclical Program Review in Geography and the Geography Dean's Agenda of Concerns, as well as the recommendations of the external reviewers for FES.

## Goals

- 1 Improve disciplinary clarity at York University while building on the strength of the Institution's interdisciplinary tradition
- 2 Reduce internal competition for students in similar or cognate fields
- 3 Remove external competition for students by working together
- 4 Increase undergraduate enrolment by reducing competition and raising visibility
- 5 Reduce overlap and competitiveness in curriculum; focus rather on quality, depth and breadth
- 6 Give undergraduates in both units more choice in degrees as the new unit would offer a BES, BA, BSc, and iBA
- 7 Give graduate students in both units an enhanced set of courses and approaches
- 8 Improve marketing strategies for recruitment, funding, alumni involvement
- 9 Streamline social media activities and community engagement
- 10 Bring disciplinarily-related individuals together to foster collaboration in research and teaching
- 11 Improve access to computing and other lab resources without duplication
- 12 Create a hub of geographic and environmental activity at York, building visibility and recognition to the outside world
- 13 Increase financial sustainability for both units by increasing undergraduate enrolment, enhancing graduate training, creating an opportunity for external donations, and achieving curricular harmonization.

## Process to Date

Members of Geography, Urban Studies, and the Faculty of Environmental Studies have been meeting since May 2016 to discuss the concept of a merger. An outcome of these discussions was the formation of an ad hoc merger working group [Gail Fraser (FES), Roger Keil (FES), Tarmo Remmel (GEOG), and Elizabeth Lunstrum (GEOG)] that has been meeting since October 2016. Through our regular meetings, we have brought motions to our respective governing bodies for adoption that legitimized our continued discussions on this topic, we have formulated a starting vision for a reorganized faculty structure, and have identified rough timelines, requirements, and challenges to achieve this vision. For the time being, we have code-named our new structure: *Faculty Blue*. We underscore the need for consultation to ensure processes that avoid grievances and labour issues; we wish to remain transparent and clearly communicate activities to involved parties. We also note that at times there may be requirements for professional consultants to lead discussions and avoid hang-ups.

## Resolutions

To legitimize these discussions and to authorize the ad hoc committee to seek guidance and resources on behalf of the Department of Geography and the Faculty of Environmental Studies, resolutions were brought to the floors of their respective governing bodies for adoption. All resolutions were adopted.

### **Faculty of Environmental Studies Merger Motions**

#### **– Adopted at the Geography Faculty Meeting: 1 December 2016**

1 May it be resolved that faculty, staff and students represented in the Committee of Instruction at the Faculty of Environmental Studies approve, in principle, an intensification of discussions on a possible merger of FES with the Department of Geography and potentially other cognate units in the University.

2 May it be resolved that the Committee of Instruction of the Faculty of Environmental Studies requests that the University provide assistance to facilitate a merger of FES with the Department of Geography at York University (and possibly other units in the University). FES specifically requests that the University provides information on processes, support staff and course releases for faculty to work on a merger in the most expedient way feasible.

### **Department of Geography Merger Motions**

#### **– Adopted at the Geography Faculty Meeting: 7 December 2016**

1 May it be resolved that faculty represented at the Department Meeting of the Department of Geography within the Faculty of Liberal Arts & Professional Studies approve, in principle, an intensification of discussions on a possible merger of FES with the Department of Geography and potentially other cognate units in the University.

2 May it be resolved that the Department of Geography within the Faculty of Liberal Arts & Professional Studies requests that the University provide assistance to facilitate a merger of FES with the Department of Geography at York University (and possibly other units in the University). The Department of Geography specifically requests that the University provides information on processes, support staff and course releases for faculty to work on a merger in the most expedient way feasible.

### **Department of Geography Merger Motion in Principle**

#### **– Adopted by Secret Ballot: 9-16 May 2017**

1 May it be resolved that faculty members of the Department of Geography within the Faculty of Liberal Arts & Professional Studies approve a "Motion in Principle" that the Department of Geography merge with the Faculty of Environmental Studies, and potentially other cognate units in the University, under a new Faculty.

### **Faculty of Environmental Studies Merger Motion in Principle**

#### **– Passed in FES Faculty Council on May 25, 2017**

1 May it be resolved that the Faculty of Environmental Studies approve a "Motion in Principle" in which FES merge with the Department of Geography, and potentially other cognate units in the University, under a new Faculty.

## **Administrative Process**

Following the resolutions passed by FES and Geography, a group of relevant senior Administrators met to respond to the desire of the faculty members to explore what was involved in creating Faculty Blue. The Provost Rhonda Lenton, the Vice-Provost Academic Alice Pitt, FES Dean Noël Sturgeon, LAPS Dean Ananya Mukherjee-Reed, Science Dean Ray Jayawardhana, Senior Executive Officer Richard Ooi, FES Executive Officer Paul Elliott, LAPS Executive Officer Lawrence Wagner and Assistant Senate Secretary Robert Everett Assistant met to discuss the administrative actions that would need to be taken to accomplish the fusion of the two units as well as a reasonable timeline. Meetings between the new Provost Lisa Phillips, and the Deans of FES and LA&PS took place to move the process forward during the leadership transition. The initial action needed was a letter of support from the Provost for a motion in principle supporting the merger, which we received. During these meetings, the Provost(s) and the Deans drafted a set of Merger Principles, below. These are draft principles providing a rough framework, but may be amended by on-going discussions with the Provost, the Deans of the Faculty of Environmental Studies and the Department of Geography. These “principles” are purely for future discussions. They have not been tested against current contractual or collective agreement realities for faculty, staff and students.

## **Draft Principles for the Administrative Framework for the Merger of FES/Geography under Review and for Discussion**

*March 7, 2017 (amended May 17, 2017)*

- 1 In terms of revenue and expenses, the merger would align with basic SHARP principles.
- 2 Any changes in bargaining unit workload or research release program (RRP) processes must be approved by the Dean(s) and Provost after wide consultation.
- 3 Changes in workload, RRP and curriculum harmonization are connected and may take 3 years.
- 4 The merger has to be cost neutral aside from any specific resources that might be negotiated to support the work involved to be undertaken in merging the academic units.
- 5 Curricular changes, program changes and potential Faculty renaming must go through regular governance processes.
- 6 Staff positions will be protected for a minimum of 18 months.
- 7 Tenure and Promotion criteria for existing faculty will be based on criteria at time of hire, unless faculty choose new process operative within new unit.
- 8 The new Faculty will seek to be housed in a joint space on campus at the earliest occasion.
- 9 Central support will be provided for transition costs.

## Urban Studies Discussions

Throughout this process, there has been an awareness that similar rationales for a merger between FES and Geography also apply to the Urban Studies Program. Urban Studies faculty members have participated in an observer capacity at some of the faculty discussions. They have also spoken to the Dean of LAPS about the option of moving their program to *Faculty Blue*. There are four Urban Studies tenured faculty members and one CLA. There are mixed feelings among this group, with some faculty supporting a merger, some ambivalent, and some opposed. Urban Studies has an undergraduate program roughly one-fourth the size of FES's BES program, and no graduate program. Their undergraduate core courses indicate training in planning, while FES has the largest graduate planning program in Canada, with OPPI certified faculty members, allowing the program to produce graduates qualified to become certified planners. A merger with Urban Studies would facilitate an undergraduate planning degree, which would be very attractive to recruit undergraduates and allow us to effectively compete provincially and nationally.

## Other Potential Partners

Tentatively, similarly to the situation of Urban Studies, other units, most notably the ORU CITY Institute, have been mentioned as potential partners in the FES/Geography fusion, but no concrete decisions have been made or resolutions passed for these entities. In addition, individual faculty members in other York University Faculties have voiced potential interest in joining the new combined Faculty.

## Proposed planning sub-groups

- 1 Undergraduate curriculum and programs
- 2 Graduate curriculum and programs
- 3 Connectivity and relations with other faculties and programs
- 4 Physical space planning (physical labs, computing)
- 5 Experiential learning, fieldwork, internationalization (including Costa Rica)
- 6 Marketing and social media (recruitment and retention)
- 7 Alumni relations, awards, endowment funds
- 8 Administrative and staffing
- 9 Others (e.g. governance)

## **Projected Timeline**

All processes involved in creating a new Faculty, new administrative structures, moving faculty and staff positions, creating a new budget framework, curricular harmonization and creation of new programs will take time and will follow different governance paths to be finalized. Some of these processes may be completed in a year, and some will take at least 3-5 years. If discussions among the faculty, staff and students proceed as expected, by June 2018, we expect to be able to bring forward a motion to Senate to merge the Faculty of Environmental Studies, the Department of Geography, and any other cognate units that decide in the meantime to be included.

## **Unit Descriptions and Budget Implications**

### *Unit Descriptions:*

Under the SHARP budget model, units will receive revenue generated from enrolment, research overhead, and revenue-generating activities and pay costs for instruction, staff, space, and central administrative services. Both FES and Geography have experienced declining undergraduate enrolments over the last five years.

Presently FES has 120 undergraduate admits per year and 360 BES majors.

Geography has 221 undergraduate majors in the BA, and 28 Majors in BSc (joint with Science) and iBA.

FES has an extra-large MES program, which has experienced some decline in enrolments, with 110 accepts per year and a total number of 260.

FES has a large PhD program that has remained stable at 10 admits per year with a total number of 60.

Geography has approximately 25 MA students (not exact numbers).

Geography has approximately 12 PhD students (not exact numbers).

Geography has roughly 20 tenure-track faculty and 3 CLAs. FES has 40 tenure-track faculty.

Geography has 9 staff members. FES has 23 staff members.

Both the Faculty of Environmental Studies and Geography are research-intensive, and support multiple community engagements and partnerships.

Both units offer large service courses that are part of General Education and taken by York students from across the university.

Both units are presently carrying deficits resulting from declining undergraduate enrolments.

### *Budget Implications:*

Imbedded in the rationale for a merger of FES and Geography are three potential ways that budget outlooks could be improved: growing undergraduate enrolment, harmonizing curriculum and reducing administrative duplication.



*Growing undergraduate enrolment (especially salient if Urban Studies is added):*

Presently, the undergraduate majors in the three units (FES, GEOG, Urban Studies) compete internally and externally for applicants and majors. It is particularly difficult for applicants to distinguish between the BES concentration in Urban and Regional Studies, the Geography BA, and the Urban Studies BA. It is also difficult to distinguish between the BES concentration in Environmental Management and the Geography/Science BSc. New potential programs (such as an undergraduate planning degree) would also grow undergraduate enrolment.

We also anticipate more effective recruitment. Besides eliminating the confusion between the programs for applicants, we will also look more competitive compared to other ENVS/GEOG/Urban Studies programs, particularly our strongest competitors, Ryerson and Waterloo. **Appendix A** describes the North American trend of combining these programs, as well as listing all related programs in Canada, the vast majority of which combine ENVS, Geography, and Urban Studies.

*Curricular Harmonization:*

In **Appendix B** is a list of courses offered in the undergraduate programs of FES, GEOG, and URST. Though these courses are taught with nuances appropriate to the different instructors and the disciplines in which they are trained, it is easy to see that there are numerous ways in which curricular harmonization can be achieved and duplication eliminated. This would lead to a reduction in courses offered, allowing for new courses, certificates, and majors to be developed, and reducing instructional costs while not increasing faculty workloads. Curricular harmonization would go through all normal curriculum committees and governance processes, so would be expected to take some years, but the goal would be a streamlined set of courses supporting the majors, which would be more attractive to undergraduate applicants.

A similar process can take place at the graduate level, with FES and GEOG faculty teaching courses without the present duplication, allowing more faculty teaching in the undergraduate programs. This will increase resources to the undergraduate programs, our source of revenue.

*Reducing Administrative Duplication:*

Bringing these programs together would allow recruitment, communication, research support, and other administrative resources to be focused instead of being split between two Faculties as they are at present. Recruitment is one of the best examples, as the cognate majors could be advertised together instead of separately.

It can be fairly anticipated that within five years, these processes will allow the in-year deficit of both units to be eliminated. However, if Urban Studies joins Faculty Blue, its undergraduate majors will allow this process of budget improvement to be more rapid.

## Appendix A

### Combined Geography and ENVIS Programs in Canada

**Amy E. Frazier & Thomas A. Wikle. 2016. Renaming and Rebranding within U.S. and Canadian Geography Departments, 1990-2014. The Professional Geographer. DOI: 10.1080/00330124.2015.1135404**

Abstract: Between 2000 and 2014, more than thirty geography departments adopted revised or new names, with some entirely dropping geography. Although renaming and rebranding efforts are not new to higher education, the rapid pace at which geography department names have changed raises questions about the discipline's identity and health. We examine the renaming trend within geography programs together with intended and unexpected factors as perceived by faculty. Specifically, we look at the renaming and rebranding trend within the context of four pillars offered by Pattison (1964) to define geography's principal academic domains-earth- science, man-land, area/regional studies, and spatial traditions.

<http://www.tandfonline.com/doi/abs/10.1080/00330124.2015.1135404>

- **Carlton University** - Department of Geography and Environmental Studies –  
**Offers:** Geography, Geomatics and Environmental Studies -  
<https://carleton.ca/geography/>
- **Laurier University** - Department of Geography and Environmental Studies –  
**Offers:** Geography and Environmental Studies -  
<https://legacy.wlu.ca/page.php?grp%20id=l49&p=1830>
- **University of Ottawa** - Department of Geography, Environment and Geomatics –  
**Offers:** Geography, geomatics, environmental studies  
<http://arts.uottawa.ca/geography/>
- **Ryerson University** - Department of Geography and Environmental Studies –  
**Offers:** Geographic Analysis, Spatial Analysis, Environmental Sustainability -  
<http://www.ryerson.ca/geography/about/>
- **Lakehead University** (Thunder Bay Campus) – Department of Geography  
**Offers:** Biology, Earth Science or Geography Majors
  - Note: At Lakehead it seems that you take environmental studies courses, but do not get an environmental studies degree
  - <https://www.lakeheadu.ca/academics/departments/geography>
  - They Also offer an Environmental Management program -
  - <https://www.lakeheadu.ca/academics/undergraduate-programs/thunder-bay/environmental-management/node/3577>
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- **Bishops University** - Department of Environmental Studies and Geography –  
**Offers:** Micro-Program in Climate Change, Environmental Studies, Geography -  
<http://www.ubishops.ca/academic-programs/faculty-of-arts-and-science/social-sciences/environment-and-geography/>

- **University of Waterloo** - Faculty of the Environment –  
**Offers:** Environment and Business; Environment and Resource Studies; Geography and Aviation; Geography and Environmental Management program; Geomatics; International Development; Joint Programs with Chinese Universities; Knowledge Integration Program; Planning  
<https://uwaterloo.ca/environment/departments-programs>
- **Nipissing University** -Department of Geography –  
**Offers:** Geography, Environmental Geography, Environment and Physical Geography -  
<http://www.nipissingu.ca/academics/faculties/arts-science/geography/Pages/default.aspx>
- **Thompson River University** – Department of Geography and Environmental Studies  
**Offers:** Geography and Environmental Studies Major; Physical Geography; Geography and Environmental Studies Honours Major -  
<http://www.tru.ca/arts/geography/programs.html>
- **Concordia University** - Department of Geography, Planning & Environment -  
**Offers:** Human Environment; Urban Studies and Planning, Environmental Science, Environmental geography –  
<https://www.concordia.ca/artsci/geography-planning-environment.html>

## Appendix B

### Courses Offered in ENVS, GEOG, URST

#### UNDERGRADUATE COURSES OFFERED IN THE FACULTY OF ENVIRONMENTAL STUDIES

ENVS	1000	Cr=6.00	Earth in Our Hands
ENVS	1011	Cr=3.00	Introduction to Sustainable Food Systems
ENVS	1200	Cr=6.00	Taking Action
ENVS	1500	Cr=6.00	Introd. to Environmental Science
ENVS	1800	Cr=6.00	Environmental Writing
ENVS	1900	Cr=6.00	Uncovering the Body
ENVS	2000	Cr=6.00	Environmental Politics, Justice and Arts
ENVS	2009	Cr=3.00	Quantitative Methods in Env. Studies
ENVS	2100	Cr=6.00	Foundations in Environment and Culture
ENVS	2120	Cr=3.00	Introduction to Natural History
ENVS	2122	Cr=3.00	Community Arts for Social Change
ENVS	2150	Cr=3.00	Environ.Technology&Sustainable Society I
ENVS	2151	Cr=3.00	EnvironTechnology&Sustainable Society II
ENVS	2200	Cr=6.00	Foundations of Urban and Regional Enviro
ENVS	2300	Cr=6.00	Foundations of Environmental Politics
ENVS	2400	Cr=6.00	Foundations of Environmental Management
ENVS	2410	Cr=3.00	The Science of Pollution
ENVS	2410	Cr=3.00	The Science of Pollution
ENVS	2420	Cr=3.00	Ecology and Conservation Science
ENVS	2420	Cr=3.00	Ecology and Conservation Science
ENVS	3000	Cr=3.00	Environmental Ethics and Epistemology
ENVS	3010	Cr=3.00	Qualitative Methods in Environmental Stu
ENVS	3100	Cr=3.00	Environmental Arts and Media
ENVS	3120	Cr=3.00	Environmental History
ENVS	3122	Cr=3.00	Community and Environmental Arts Worksho
ENVS	3125	Cr=3.00	Popular Educ for Env and Social Justice
ENVS	3130	Cr=3.00	Energy and the Environment in Canada
ENVS	3140	Cr=3.00	Environmental & Sustainability Education
ENVS	3150	Cr=3.00	Human Animal Studies
ENVS	3151	Cr=3.00	Environmental Politics and Advocacy
ENVS	3160	Cr=3.00	Race/Racism and Environmental Justice
ENVS	3170	Cr=3.00	Indigenous Environmental Thought
ENVS	3222	Cr=3.00	Urban and Regional Infrastructures
ENVS	3225	Cr=3.00	Regional Governance
ENVS	3226	Cr=3.00	Sustainable Urbanism
ENVS	3227	Cr=3.00	Urban Planning and Politics in Global Co
ENVS	3230	Cr=3.00	Restoration Ecology
ENVS	3303	Cr=3.00	Politics Perfor. & the Art of Resistance
ENVS	3310	Cr=3.00	Tropical Conservation & Sustainable Deve
ENVS	3320	Cr=3.00	Sex, Gender, Nature

ENVS	3340	Cr=3.00	Global Environmental Politics
ENVS	3400	Cr=3.00	Climate Change Science and Policy
ENVS	3401	Cr=3.00	The Science of Pollution
ENVS	3402	Cr=3.00	Ecology and Conservation science
ENVS	3410	Cr=3.00	Environmental Policy I
ENVS	3420	Cr=3.00	Environmental Law
ENVS	3430	Cr=3.00	Environmental Assessment
ENVS	3440	Cr=3.00	Resource Management
ENVS	3450	Cr=3.00	Environment & Health
ENVS	3505	Cr=3.00	Business and Sustainability
ENVS	3510	Cr=3.00	Environmental Economics
ENVS	3520	Cr=3.00	Introduction to GIS in Environme Studies
ENVS	3521	Cr=3.00	Geoinformatics: Remote Sensing I
ENVS	3522	Cr=3.00	Spatial Analysis
ENVS	3710	Cr=3.00	Landscape Ecology
ENVS	3740	Cr=3.00	Urban Ecology
ENVS	3760	Cr=3.00	Plant Ecology
ENVS	3800	A Cr=3.00	The Politics of Housing
ENVS	3800	K Cr=3.00	Business and Sustainability
ENVS	3800	M Cr=3.00	Climate Change: Policy and Adaptation
ENVS	3800	O Cr=3.00	Food and Social Change
ENVS	3800	P Cr=3.00	Water: History, Culture, Politics
ENVS	3800	U Cr=3.00	Transnational Writing & Politics of Colo
ENVS	3800	V Cr=3.00	Climate Justice
ENVS	3800	W Cr=3.00	National Parks and Indigenous People
ENVS	3800	Y Cr=3.00	Contesting Place: Art in the Urban Env.
ENVS	3810	A Cr=6.00	Sustainability & Wellbeing in Costa Rica
ENVS	3891	Cr=3.00	Urban Environments in North America
ENVS	3900	Cr=3.00	Directed Reading
ENVS	3900	Cr=6.00	Directed Reading
ENVS	3900	A Cr=3.00	Directed Reading
ENVS	4000	Cr=6.00	Senior Honours Work Seminar
ENVS	4001	Cr=3.00	Placement Course
ENVS	4001	Cr=6.00	Placement Course
ENVS	4002	Cr=3.00	Professional Development
ENVS	4011	Cr=3.00	Food, Land and Culture
ENVS	4041	Cr=6.00	Alternative Economic Firms
ENVS	4100	Cr=3.00	Environmental Literatures
ENVS	4110	Cr=3.00	Conservation Biology
ENVS	4111	Cr=3.00	Biodiversity
ENVS	4120	Cr=3.00	Natural History
ENVS	4122	Cr=3.00	Arts in Action
ENVS	4140	Cr=3.00	Environmental Thought
ENVS	4161	Cr=3.00	Social Movements
ENVS	4210	Cr=3.00	Global Populations
ENVS	4215	Cr=3.00	Globalization and Indigenous Peoples
ENVS	4220	Cr=3.00	Urbanization in Developing Countries

ENVS	4223	Cr=3.00	Global Cities
ENVS	4225	Cr=3.00	Urban Sustainability I
ENVS	4230	Cr=6.00	Design for Sustainability Workshop
ENVS	4310	Cr=3.00	Extraction and its Discontents
ENVS	4400	Cr=3.00	Fundamentals of Renewable Energy
ENVS	4401	Cr=3.00	Fundamentals of Energy Efficiency
ENVS	4402	Cr=3.00	Climate Change Mitigation
ENVS	4410	Cr=3.00	Environmental Policy II
ENVS	4420	Cr=3.00	Environment, Media, Culture & Communicat
ENVS	4421	Cr=3.00	Environmental Law & Justice
ENVS	4430	Cr=3.00	Impact Assessment Process & Practice
ENVS	4440	Cr=3.00	Environmental Disasters
ENVS	4442	Cr=3.00	Environmental Auditing
ENVS	4445	Cr=3.00	Ontario Environmental Politics & Policy
ENVS	4446	Cr=3.00	Protected Area Management
ENVS	4447	Cr=3.00	Northern Ecosystems
ENVS	4510	Cr=3.00	Ecological Economics
ENVS	4520	Cr=3.00	Geog. Info. Systems Apps in E.S.
ENVS	4521	Cr=3.00	Geoinformatics: Remote Sensing II
ENVS	4522	Cr=3.00	Web GIS
ENVS	4523	Cr=3.00	Systems Thinking in EnvironmentalStudies
ENVS	4750	Cr=3.00	Political Ecology of Landscape
ENVS	4800	A Cr=3.00	Advanced Topics- Environment and Health
ENVS	4800	B Cr=3.00	Creativity and Cities in Urban Politics
ENVS	4800	C Cr=3.00	Wildlife Management
ENVS	4800	D Cr=3.00	Gender and Climate Change
ENVS	4800	Q Cr=3.00	Urban Development Process
ENVS	4810	A Cr=3.00	Sustainability & Wellbeing in Costa Rica
ENVS	4810	A Cr=6.00	Sustainability & Wellbeing in Costa Rica
ENVS	4810	B Cr=3.00	Environmental Arts and Food Sovereignty
ENVS	4900	Cr=3.00	Directed Study
ENVS	4900	Cr=6.00	Directed Study
ENVS	4900	Z Cr=3.00	Directed Study
ENVS	4900	Z Cr=6.00	Directed Study

## ENVS Graduate Course Offerings

ENVS Number	Course Title	Description
5011.03	Food, Land and Culture (integrated w/ undergraduate ENVS 4011)	This course examines food, land and people from a critical interdisciplinary environmental perspective. Students have the opportunity to pursue their own interests related to food politics, planning, sustainable and alternative agriculture, human-animal relationships, and ethics, from a local and/or global perspective.
5016.03	Protected Area Management (integrated w/ undergraduate ENVS 4446)	Protected area management is a form of environmental management focusing on land and/or freshwater/sea dedicated to the protection and maintenance of biological diversity, and of natural and associated cultural resources, and managed through legal or other effective means.
5021.03	Urban Development Processes (integrated w/ undergraduate ENVS 4800)	Critical investigation of approaches to, and topics in, processes of urban growth, decline, development, and redevelopment. Twentieth century theories of urbanization are examined and their relevancy for understanding selected recent urban problems are studied.
5023.03	Global Cities	This course offers an introduction to the literature on global cities and a systematic review of a distinct field of research in urban studies which concerns itself with the globalization of a network of global or world cities.
5061.03	Environmental Law and Justice (integrated w/ undergraduate ENVS 4421)	This course examines and evaluates how contemporary advocates employ law to protect the environment, secure equal access to environmental health, and contribute to social justice.
5068.03	Global Justice and the Environment (integrated w/ undergraduate ENVS 4312)	Introduction to international and global justice, drawing on basic philosophical ethics and focusing on issues in humanitarian and environmental internationalism and international development: theoretical schools of thought; application of ethical analysis to particular controversies; the use of ethics in advocacy. (COCU 5306.03)
5070.03	Extraction and Its Discontents	This course examines current political, economic and social debates concerning extractive industry, placing these in the context of longer histories of global imperialism and colonialism. Following a review of conceptual approaches to natural resource 'extraction', the course will examine contemporary global regulation and resistance to it, focusing upon the state, the corporation, the resource, the affected community, and the (global) social movement as units of analysis.
5073.03	New Social Movements (integrated w/ undergraduate ENVS 4161)	Examination of new social movements that have arisen in response to the crisis of industrial culture, economic restructuring, shifting political formations, and ecological disasters. The focus is on current theories of social movements in action. Opportunities for students to gain first-hand experience with social movement organizations through participatory research projects are provided. (CMCT 5307.03)
5080.03	Internet-Distributed GIS for Public Engagement (integrated w/ undergraduate ENVS 4522)	This course examines the role of geo-spatial information technologies as applied public engagement activities. Students will review literature in areas of social theory, public participation and technology-mediated engagement techniques while developing applied knowledge through project design and implementation exercises.
5101.03	Approaches to ES >>	<b>MANDATORY MES COURSE:</b> The course introduces incoming MES students to a broad range of debates and interdisciplinary perspectives in Environmental

5100.03	Interdisciplinary Research in ES	Studies as a basis for the preparation of the Initial Plan of Study.
5103.03	Nature and Society	Examination of conceptions of nature found in the Western tradition. A particular emphasis is placed on the role of cultural narratives, and notions of technology and time in shaping our conceptions of nature.
5106.03	Feminist Perspectives in ES >> Critical Perspectives in Race, Gender and the Environment	The course presents an overview of the basic concepts and approaches of feminist analysis, with particular attention to feminist theory and its relevance to environmental issues. It explores gender, i.e. hierarchical distinctions between male and female and conforming and non-conforming genders and sexualities, in its intersections with racism, capitalism and colonialism. We will take up questions on social, gender and environmental justice with respect to a range of environments, and from various theoretical and activist angles.
5112.03	Ecology in ES	Introduction to concepts and principles in ecology as they relate to both natural and managed environments and to resources, planning, management, and conservation. Topics are analyzed within the context of ecological change and its implications for both the non-human world and human habitats.
5113.03	Business Strategies for Sustainability	All organizations impact the environment. However, it is only recently that the environment has become an issue for business and its managers. For many companies, environmental management is now an integrated part of organizational management. This course is designed to introduce students to the critical strategic and managerial issues in developing, implementing and adapting corporate practice to improve environmental and commercial performance. (BSUS 6500.03)
5119.03	Resource Management	Examination of the principles of resource management and conservation, with emphasis on integrating ecological/physical, economic, and social/philosophical/ethical considerations in contemporary problems in resource management.
5121.03	Introduction to Planning	The course explores the field of planning in its diverse forms of theory and practice. Focus is on overarching aspects of planning theory and practice and selected themes of significance to planning in the Greater Toronto Area.
5123.03	Environment and Behavior	Introduction to the study of human responses to the environment, focusing on responses to attempts to shape the environment through planning and design. Emphasis is on built and social aspects, with some attention given to natural aspects. Examples are drawn from environmental psychology, environmental sociology, behavioural geography, and environmental health.
5124.03	Development Studies	Survey of the evolution of development theory over the past three decades. Economic, social, political, and environmental ideas are discussed in relation to the process of development in both northern Canada and the Third World.
5150.03	Perspectives on Green Business	This course is an overview of the wide-ranging issues, opportunities and challenges relating to green business—big and small. It examines what sustainable enterprise is, and strategies—both entrepreneurial and regulatory—for business and community economic development.
5161.03	Local Government Organization and Operation	Examination of the political, governmental and administrative contexts for public policy, planning, and implementation. Emphasis is on local government in Canada, relationships of municipalities to other governmental levels, and the role of various actors (citizens, voluntary groups, planners, developers, government agencies) in municipal governance.
5163.03	Policy Analysis for ES	Decision-making for environmental issues relies on both a broad spectrum of contextual knowledge and specific analytic skills. This course develops a knowledge base of the central structures of public policy and develops skills to comprehend and conduct environmental policy analysis.
5164.03	Environmental Economics	This course examines the development and implementation of public policies related to the environment and sustainability in a Canadian context. The course will focus on the interaction of institutions, societal forces and ideas in the Canadian environmental policy experience
5178.03	Environmental Policy	This course examines the development and implementation of public policies related to the environment and sustainability in a Canadian context. The course will focus on the interaction of institutions, societal forces and ideas in the Canadian environmental policy experience
5475.03	Space, Place, Capitalism (GEOG 5375)	This course examines the political economy of capitalism from a geographical angle. It looks at the spatial and environmental aspects of capitalism employing Marx's 'mature' works as well as more contemporary literature on political economy in geography and cultural studies. (GEOG 5375.03)
5599B.03	Environmental Literatures and Politics	This special seminar, centred on the conference "Green Words / Green Worlds: Environmental Literatures and Politics in Canada," allows students to explore the ways in which environmental literatures have a unique role to play in the unfolding and development of ecological understanding and environmental



		politics in Canada (and vice versa). By reading and discussing a variety of creative and critical works pertinent to the conference themes and/or works by conference keynote speakers, by actively engaging in conference activities, and by developing a reflective relationship to conference discussions by “applying” them to a specific work of literature, students will engage intensively with questions concerning the relevance of the humanities to environmental studies, and especially with the idea of developing an environmental (literary) public culture.
5599H.03	Readings in Philosophy, Religion and Environment	This is an independent study course that it is hoped can be carried out in a group setting. Most of the work will be carried out in the two classes, but students will have individual tutorials depending on need.
6101C.03	Ecosystem Approaches to Health: Field Course	Ecosystem approaches to health (ecohealth) is an emerging field that addresses health and wellbeing, recognising that these are embedded within an ecosystem context. The purpose of this course is to cultivate knowledge, skills and attitudes which will enhance the participants’ ability to contribute to research, theory, education, policy and the practice of ecosystem approaches to health.
6102.03	Transitions in ES	This course assists students in the transition from MES II to MES III, with emphasis on the design of the substantive and integrative experiences to be undertaken in MES III (including expectations of the Major Project, Major Paper, or Thesis) and the ways that students may demonstrate mastery of the subject matter.
6103.03	Perspectives in Environmental Sociology	The purpose of this course is to explore some of the theoretical issues, dilemmas, and problems that face sociologists when incorporating ‘the environment’ into social analysis. Perspectives covered include: classical formulations, the sociology of risk, social constructionism, Actor-Network Theory, and complexity theory.
6108.03	Landscape Ecology in Planning	Landscape ecology involves the interaction between spatial pattern and Ecological processes. The course provides knowledge of the principles of landscape ecology and will link them with physical planning, the design of ecologically sustainable landscapes and the restoration of degraded environments. It is recommended that students have ENVS 5112 3.0 Ecology in Environmental Studies.
6112.03	Biology Conservation	Examination of the ways in which biological conservation is defined, understood, and acted upon; identification of the causes of biological depletions and of the multidisciplinary nature of both issues and problems. Special attention is paid to the relationship between the theory and practice of conservation.
6114.03	Sustainable Development in Canada	Exploration of the array of possible environmental, social and economic characteristics of, and policy, institutional, behavioural and legal requirements for, sustainable patterns of development in Canada.
6115.03	Ecological Economics	Exploration in the emerging field of ecological economics, including discussion of: the optimal scale of the economy in relation to the environment, environmental valuation, measurement, risk, and discounting; intergenerational and interspecies equity; entropy/ thermodynamics; and community-based economics.
6116.03	Resource Management Law (LW 3490)	This seminar is concerned with the comparative evaluation of the various regulatory techniques employed with respect to the management of Canada’s primary resources. Both renewable and non-renewable resource sectors will be considered; in particular, water, petroleum, natural gas, forestry, mineral (and uranium if time permits) resources. The dominant theme of the seminar will be an examination of the differing perspectives of various branches of industry, consumers utilities, government and public interest branches of industry, government and public interest groups (Same as LW 3490.03)
6117.03	Ecology in Third World Development >> Ecologies and Sustainability in the Global South	Examination of the nature of tropical and subtropical environments, particularly as they relate to conservation, resource management and sustainable development. Emphasis is directed toward alternative approaches to issues in conservation and development, particularly ecodevelopment strategies, and toward the integration of ecology into development planning in third world countries. The ecological foundation for sustainable development in the tropics and subtropics is also addressed.
6118.03	Applied Ecology	Application of ecological knowledge and principles to problems of resource management, planning, pollution and conservation.
6119.03	Ecological Restoration	Examination of the restoration of ecological communities that have been degraded by human activity. Subject areas include: lakes, bogs, marsh areas, and terrestrial habitats. The format is a combination of lectures by the course director and seminars by the students.
6120.03	Public Involvement in Planning	This course looks at the history and theory of public involvement in planning, discusses contemporary approaches, and addresses strengths and weaknesses of various methods of public involvement by looking at specific contemporary and

		historical case studies. In order to pass, students are expected to actively engage in all parts of the course.
6121.03	Community, Energy and Planning	This course examines the relationship between sustainable communities and sustainable energy systems. In the context of climate change, environmental, ethical, and social concerns, the course will consider the flexibility and adaptability of landscape, communities and city-building processes, and integrated and multi-scalar responses and approaches to policy-making and implementation.
6122.03	Rural Planning	Survey of the theory and research methods used in the planning of rural areas, from macro-through to micro- levels. The spatial arrangement of land uses, human settlement, urbanization of the countryside, and sustainable development, agriculture, forestry, and recreation are emphasized.
6123.03	Ecological Approaches to Urban Design	Pragmatic and philosophical exploration in three areas: first, how urbanism shapes perceptions of nature and how environmental and social values are linked; second, how a broadly based ecological view of cities is necessary to their environmental and social health; third, how the application of ecological processes to urban design can influence the shaping of urban form.
6124.03	Urban-Regional Planning	Introduction to planning for urban centres and regions. Emphasis is on the history of urban regional planning thought and practice, key planning models and concepts, the planning process, and plan implementation.
6125.03	Recreation and Tourism: Planning and Management	Explorations in leisure, recreation, and tourism theory, research, planning and practice, with emphasis on the social and environmental contexts in which people 'recreate' and on the roles that leisure, recreation, and tourism play in the quality of people's lives.
6126.03	Community Planning and Housing	This course explores the evolving nature of community planning and the linkages among planning, housing policy and programs, and planning for the provision of social services and infrastructure in a multicultural society.
6127.03	Community Organizing and Development	An overview of the practice and theory of community development/ community organizing approaches as strategies for improving the quality of life for marginalized groups in Canadian urban society and as a method for increasing the levels of social justice.
6128.03 (formerly 6101B.03)	Transportation Planning	This course will focus on the strategic relationships between land use planning, the environment, economy and transportation planning policies, principles and practices. Topics include exploring current transportation issues in the Greater Toronto Area, reducing auto dependence and creating a more liveable Urban Region.
6129.03	Social Policy and Planning	Three aspects of social policy and planning are addressed: first, major theoretical and action frameworks; second, social policy and planning practice in various institutional contexts including the place of research, evaluation, and implementation; third, selected case studies of social policy and planning problems, special needs groups, and the implementation process.
6130.03	Planning Theory	Critical examination of theories explaining and guiding planning processes, both professional and managerial.
6131.03	Environmental Planning	Focus is on planned approaches to identifying and resolving environmental problems encountered in human settlements. Consideration is given to the location, form, pattern and functioning of human communities in relation to the natural environment, as well as to the livability and quality of built environments.
6132.03	Environmental Design	The purposes of this course are: to develop a sensitivity to the sensory, physical environments in which people live; to explore the foundations and influence of design theory on the design of human habitats; to examine the role of design in creating healthy and civilizing cities; and to examine the essential interrelationships between the many determinants (environmental, social, behavioural, artistic, economic), that shape the human landscape and which provide a basis for a proactive and informed approach to its design.
6133.03	Plurality and Planning	This course examines the challenges of the pluralistic city and society. Three aspects of plurality are addressed: the construction of diversity and difference, the processes of immigration and settlement, and multiculturalism as a fact, ideology and policy. Throughout the course, issues of plurality are discussed in relation to urban planning and design.
6135.03	Environment, Society and Disease	The overall objective of this course is to gain a comprehensive and integrated understanding of how a wide range of social and biophysical environmental forces together influence the spread and reaction to new and (re) emerging infectious diseases such as HIV/AIDS, SARS, tuberculosis, cholera, malaria, E. coli O157:H7, ebola, West Nile virus, smallpox, avian flu, Clostridium Difficile, etc.
6136.03	Health and Environment	An overview of issues in health and environment. We are defining health broadly in the tradition of the World Health Organization as "the state of complete physical, mental and social well-being and not merely the absence of disease."

		We are defining environment as natural, built, social, psychological, and organizational. We will consider these issues from both scientific and activist perspectives.
6137.03	Women , Development and Globalization (WMST 6504)	Overview of current issues in gender and development analysis as a framework for the integration of women in Third World development. Emphasis will be placed on theoretical and conceptual issues as the necessary background to project-oriented approaches to Women and Development. (WMST 6504.03)
6139.03	Historical Perspectives on Women and Nature	A study of historical ideas about women and nature, with special reference to work by women in relation to nature in Europe and North America, up to and including the 19th century. Topics may include metaphor and cultural associations/representations; the development of science culture; nature writing and popular science writing: gardens and landscape; and visual representations in art. (WMST 6303.03)
6140.03	Environmental Education	Examination of 'Environmental Education' in the widest sense, including definitions of environmental education, and the history of environmental education, its underlying assumptions, and current practices and constraints in its implementation. Alternative visions of a socially critical model of environmental education are explored.
6141.03	Education, Sustainability and the Ecological Crisis (EDUC 5445)	This course examines the deep cultural dimensions of the ecological crisis and considers the implications for public education. Discussing pre-contact indigenous models of education the course examines education's role in developing mind and landscape. At Black Creek Pioneer Village historic sustainability and contemporary environmental, social and educational malaise will be studied. We conclude envisioning education to create sustainable culture. (EDUC 5445.03)
6143.03	Political Communication and Environmental Issues	Examination of the role of mass media in environmental discourse, dealing with issues of public debate, public policy, and social advocacy in a 'mass mediated' society. (COCU 6304.03 & POLS 6165.03)
6144.03	Action Learning	Examination of the 'action learning' approach to research, planning, management, and social change. Included are examination of theoretical, methodological and pedagogical aspects of the concept, and evaluation of its potential impact on planning strategies.
6147.03	Humanitarian Crises	Humanitarian crises, causing or threatening mass deaths, include natural disasters, famines, epidemics, genocide and war. The progression of such crises, responses to them, and their causes and prevention are covered, in concrete and theoretical terms. Student work emphasizes cases.
6148.03	Environmental Negotiation and Mediation	Exploration of the concepts and principles of negotiation and mediation, key process requirements, basic techniques and strategies, and constraints and limitations on the application of alternative dispute resolution methods as applied to environmental problems.
6149.03	Culture and the Environment	Critical exploration into current literature in the emerging field of Cultural Studies. Examination of the discourses through which we attach "culture" to nature, place and space. Particular attention is given to what resources contemporary cultural studies might offer in analysing interactions between culture, nature, and place; between social identity, community, and built and natural environments. (CMCT 6120.03)
6150.03	Popular Education for Social Change 1: Theory and Practice	Examination of individual and social learning from a critical perspective. Based on a theoretical & practical examination of knowledge production and power relations, several streams of critical education are explored: popular education, critical pedagogy, native education, labour education, feminist pedagogy, queer pedagogy, anti-racist education, global/development education, direct action and activist education. Applied work will focus on the role of these approaches within schools, organizations and movements for social change.
6151.03	Popular Education for Social Change 2: Practice and Theory	Students will design, implement and evaluate popular education activities, materials or campaigns with organizations and movements for social justice and environmental sustainability. They will deepen their theoretical understanding of popular education and develop skills in political analysis for action, design and facilitation, the use of creative arts, and participatory evaluation.
6152.03	Reshaping Research with Aboriginal People	This course looks at current and historical research from Aboriginal and Indigenous (non-western) perspectives, including ethics, epistemologies, methodologies, protocols, and practices. It also examines colonial and postcolonial research practices by mainstream researchers, publishers, granting agencies, and ethics review boards.
6153.03	Native/Canadian Relations	Investigation of the relationships between First Nations, their communities and their organizations, and the broader Canadian society and its institutions. Within this broad framework, selected issues of relevance to First Nations and other

		stakeholders are examined.
6154.03	Environmental Themes in Storytelling and First Nations Traditions >> Indigeneity and territory in Cultural Traditions (EDUC 5694)	This course examines theories of traditional territory in narrative primacy and methodology in oral and literate cultures; the primacy of voice and story in First Nations nature traditions; the relationship of 'place' and story in the heritage of North American nature/environmental education.(EDU 5370.03)
6155.03	Program Implementation	The focus is on the transition from program/policy/plan to field action. The central questions are why some policies are carried out in the manner intended, some are not carried out at all, and many go in directions that are shaped more by field realities than the original intentions of their proponents.
6156.03	Theory of International Development>> Critical Theories of International Development	Critical analysis of theories of 'development' in historical perspective and from both 'western' and 'third world' positions. Examination of established theories (liberal, neomarxist) more recent perspectives (participatory development, postmodernism, postcolonialism) and themes (gender, ecology, racialization, imperialism, cultural politics).
6157.03	Non-Profit Organizations: If not for profit for what?	This course investigates the existence and persistence of the nonprofit sector, and the theories and practices that are essential for managing nonprofit organizations, whether at the level of grass roots organizations or of more formal and bureaucratic organizations.
6158.03	Non-Profit Organizations and their Environment (NMLP 6200)	This course serves as a general introduction to the nonprofit organization. It explores the historical roots and the social, political and economic function of the nonprofit sector in Canada, as well as in other countries throughout the world. In addition, it examines both the legal and policy environments in which nonprofit organizations operate, and the unique organizational structures and management practices that are characteristic of this sector. (NMLP 6200.03)
6162.03	International Environmental Law (LW 4880)	This course focuses on how people think and argue about legal regulation of international and transnational environmental problems. The course examines selected issues and developments in international environmental law of interest to Canadians, such as "sustainable development," climate change, ozone depletion, biodiversity, fisheries, air and water pollution, environment and trade, the polluter pays principle, the precautionary principle, and the evolution of "customary" international environmental law from Stockholm to Rio and beyond. (LW 4880.3)
6164.03	Environmental Law (LW 2880)	Examination of the institutions, processes, and legal principles which encompass the field of environmental law in Canada. A comprehensive review of the legal framework underlying the existing planning, regulatory and approvals processes at both the federal and provincial levels is provided, together with discussions of a number of key environmental issues facing society today. Comparative approaches undertaken by other jurisdictions are also discussed. (LW 2880.03)
6165.03	Land Use Planning Law (LW2 2330)	Examination of law relating to planning and development, with emphasis on the Canadian context. Topics include land use, real estate, urban and regional planning.
6166.03	Communications Law (LW 2005)	Communication law and regulation are viewed from two perspectives: first, the rationales for regulating broadcasting and telecommunications are explored; and secondly, areas of law and regulation in the fields of broadcasting and telecommunications are examined, including cultural regulation, standards, access, quality of service, new services and rates. (LW 2630.03)
6167.03	Gender and Public Policy (WMST 6005)	Focus on a feminist analysis of public policy, involving a comparison of mainstream policy analysis with feminist approaches. Topics include an overview of feminist theory and political frameworks, women and the state, gender, class, and race, changing family policy, violence against women, gender and housing policy, and strategies for change. (Same as WMST 6005.03).
6172.03	Food Policy Development in Canada	This course explores the theories, concepts and conundrums of food policy , so the course examines policy and program options to create a sustainable, equitable and health promoting food system for Canada.
6173.03	Politics and Planning	Planning and politics are considered along a number of dimensions: the ideologies of planning; the role of planning as a selective filter of values and interests in civil society and the local state; planning as a mediator of conflicts

		between concepts of urban places as 'economic space' and 'community space'; planning as the mediating agency of urban growth and decline.
6174.03	Environmental Politics	Exploration in politics of the environment and political ecology, with the objective of assisting participants to clarify the basis of their own practice. Examination of theories of the state, democracy, social movements, and ecological modernization at various scales. Specific emphasis will be placed on changing Canadian environmental politics in an era of globalization.
6175.03	Global Environmental Politics	Advanced analysis of the interrelationships between globalization and environment. Consideration of historical/theoretical approaches and principal international actors, institutions and legal instruments. Themes include: global warming, trade, aid, multinational corporations, environmental security, biodiversity, and environmental/political activism.
6178.03	Canadian Environmental Policy II	This is the follow-up course to Environmental Policy . The course is focused on an examination of the interplay of ideas, societal forces and institutions around a single major current Canadian Environmental Policy issue.
6179.03	Climate Change: Science and Policy	The purpose of this course is to help students develop a thorough understanding of the causes of climate change and its key policy solutions. The course also aims at providing opportunities to implement practical actions to address the problem.
6180.03	Applied Research Methods: Policy and Regulatory Studies	Provides students with the opportunity to develop the research skills required for policy and regulatory research, and a critical appreciation of their appropriate use in the design of their own research.
6182.03	Applied Research Methods: Quantitative Research	Development of a paradigm of inquiry, hypothesis development, data sources and the theory of measurement, sampling alternatives, cost estimation, audience appropriate reports, and the commissioning and management of research.
6183.03	Applied Research Methods: Qualitative Methods	Examination of the various phases of carrying out research in the field: planning the research project; choosing appropriate methods for data collection; analyzing data and communicating results of research. Emphasis is on analysis and reporting of questionnaire and qualitative data.
6186.03	Theory and Methods of Impact Assessment	Examination of the theory and methods of environmental impact assessment, focused on Canadian legislative and administrative contexts.
6188.03	Remote Sensing and Image Processing for Geographical Analysis and Environmental Monitoring (GEOG 5015)	This course focuses on ways remote sensing systems are used to acquire data, how these data are analysed and how the information is used in studies of natural and produced environments. Special emphasis is placed on satellite sensors operating in the visible and near-infrared regions of the spectrum (Landstat TM and SPOT), and on airborne and spaceborne radar systems. In addition to learning the characteristics of the sensors, how they record data and how the data are processed, the students will analyse these data using digital processing techniques. (GEO 5015.03)
6189.03	GIS Applications in Planning and Resource Management	Provides students with an opportunity to gain first-hand experience in the application of geographical information systems (GIS) to environmental problems with particular reference to planning and resource management. Students will become familiar with the strengths and limitations of this rapidly developing approach to the analysis of spatial data.
6191.03	Management Practices for Sustainable Business (BENV 6300)	This course provides a detailed review and analysis of the environmental management tools and techniques used by managers. The course considers how these techniques fit together to form environmental management systems and examines their underlying assumptions, approach and role in managerial decision-making. Techniques include environmental impact assessment; environmental reviews and audits; environmental accounting; product life-cycle analysis; and design for the environment. (BSUS 6300.03)
6275.03	International Political Economy and Ecology Summer School (POLS 6282)	Each year the IPE Summer School investigates one salient issue within the field of international political economy. International political economy includes the notion of international and transnational economic relations, and comparative structures of national political economy. Each session is an exploration of current literature in a specific issue area of IPE, particularly as it relates to the relationship between economy and ecology. (POLS 6282.03 )
6281.03	Consulting Skills	Exploration of the various aspects of carrying out studies and analysis in a professional consulting capacity. While the emphasis is on processes and techniques, the course also explores the various circumstances and contexts within which consulting projects are undertaken. The specific substantive areas will be determined in discussion with participants at the first meeting.
6291.03	Facilitation in ES	Exploration of the research on small group processes — including group dynamics, leadership and decision-making — and the key role of small groups in



		implementing change. Students are also provided with the opportunity to learn and practice the skills of facilitating effective group problem-solving.
6321.06	Environmental Planning and Design Workshop	Application in problem-solving, plan-making, and design. Direct experience is provided in the main elements of planning and design practice as informed by theory, with emphasis on implementation implications of recommended solutions.
6324.06	Planning Practice Workshop	A project-based workshop designed to provide students with direct experience in the main elements of planning practice, with emphasis on field investigation, analysis of relevant political, social, economic, environmental, cultural and design issues, examination of contextual and procedural constraints or opportunities, communication with a variety of stakeholders, and consideration of implementation alternatives.
6325.06	Critical Urban Planning Workshop	The workshop investigates recent urban change in selected North American and European cities using an approach that is informed by recent critical planning practices and urban theory. Each year a different topic is selected as the basis for the workshop project.
6330.06	Bioregional Planning Workshop	Using the Greater Toronto Area (GTA) as the laboratory, the workshop explores the context and debates surrounding the future of the area in which we live, work, study, and play. The purpose is to allow students an opportunity to observe, critically analyse, and develop plans within an applied setting.
6331.06	Planning in Toronto Workshop	This project-based course examines current planning and development practices in Toronto. Students learn about complex problems that planners typically need to resolve when dealing with significant development projects in major North American cities.
6348.06	Cultural Production Workshop: Performance	This workshop combines critical cultural theory and environmental studies with the practice of cultural production. Through analysis of the field of performance and the creative production of testimony, autobiography in performance, students critically explore and develop their own approach to producing such performances. The primary learning experience of the workshop involves the production of a performance or testimonial narrative applying analytical tools, technical skills and creativity.
6349.06	Cultural Production Workshop: Image (CMCT 6510)	Combines active media analysis with the production of images/text around environmental issues. Students critically explore the production process through media observations, readings, and audio-visuals, visits to production sites, and interviews with imagemakers. There are opportunities to develop hands-on skills in photographic or video production. The central learning experience of the workshop involves a media production applying analytical insights, technical skills, and creativity. (CMCT 6510.06)
6399A.06	Field Workshop in ES: Costa Rica	The study, through direct field observation, of the theory and principles of ecology as these apply to sustainable development in tropical environments, specifically in Costa Rica.
6401.03	Natural Disasters: An Unnatural Phenomenon (DEMS 5020)	This course examines natural disasters from an interdisciplinary point of view, particularly considering why there seem to be more natural disasters, and how and why decisions made by people create vulnerable communities.
6460.03	Communication and the Public Interest (CMCT 6315)	This course puts the concept of the "public" under close scrutiny. Through readings and a series of guided exercises, it explores how differing conceptions of the public are written into communication theory and how these might affect communication in practical ways. A background in communication theory is recommended, but not required. (CMCT 6315)
6481.03	Activist Video Making (FILM 5020)	A course focused on the production of collaboratively-produced video works on selected social and political/environmental subjects. (Same as FILM 5020.03B) (formerly ENVS 6101Z).
6560.03	Readings in Public Policy	This course is designed to support readings and research for students whose plans of study include a component on policy, and for students whose major papers, thesis or dissertations involve public policy research.
6599R.03	Growing Good: Community Engaged Action Learning in Agroecology	Temporary course being developed as permanent offering
6599S.03	Marine Conservation: Citizenship and Sustainability Strategies: Field	Temporary course being developed as permanent offering

	Course in BC	
7149.03	Advanced Topics in Culture and the Environment	This advanced topics course allows faculty and students to explore cutting-edge work in the field of environment and culture. The course will allow students to extend the cultural analyses of nature to which they have been introduced in earlier courses.
7189.03	Advanced GIS	Provides students with a solid theoretical understanding of the concepts of GIS and an opportunity to gain advanced hands-on knowledge of a popular GIS software package. Students will become familiar with the concepts and processes involved in designing and constructing a GIS database and the method by which spatial analysis tools can be used to analyse spatial data.
8102.03 (F + W)	PhD Research Seminar	<b>MANDATORY PhD COURSE:</b> This ongoing seminar is designed to assist PhD students in the formulation of their PhD Program Plan, through a comparative examination of research methods and research designs.

Source: FES website, 2016

## UNDERGRADUATE COURSES OFFERING IN GEOGRAPHY

GEOG	1000	Cr=6.00	An Introduction to World Geography
GEOG	1400	Cr=6.00	Physical Geography
GEOG	1410	Cr=6.00	Human Geography
GEOG	2030	Cr=3.00	Global Environmental Change
GEOG	2060	Cr=3.00	Historical Geography
GEOG	2070	Cr=3.00	Empire, State, & Power
GEOG	2075	Cr=3.00	Introduction to Cultural Geography
GEOG	2100	Cr=6.00	Economic Geography
GEOG	2105	Cr=3.00	Economic Geography
GEOG	2220	Cr=6.00	Urban Geography
GEOG	2305	Cr=3.00	Introduction to Social Geography
GEOG	2310	Cr=6.00	Intro to Refugee and Migration Studies
GEOG	2340	Cr=3.00	Geoinformatics: Introduction
GEOG	2400	Cr=6.00	The Hydrosphere
GEOG	2420	Cr=3.00	Intro. Stats Analysis in Geography
GEOG	2500	Cr=3.00	Introduction to Vegetation and Soils
GEOG	2600	Cr=3.00	Geomorphology I
GEOG	2610	Cr=3.00	Geomorphology II
GEOG	3010	Cr=6.00	Geography of Canada
GEOG	3020	Cr=6.00	Geography of Caribbean Islands
GEOG	3030	Cr=3.00	Peopling of Ontario
GEOG	3040	Cr=3.00	Urban Environmental Justice
GEOG	3050	Cr=3.00	Nature, Power and Society
GEOG	3060	Cr=3.00	Post-Colonial Geographies
GEOG	3070	Cr=6.00	Gender, Population and Migration
GEOG	3080	Cr=3.00	Reading Landscapes Through Time
GEOG	3081	Cr=3.00	Historical Geographies of Modern Ireland
GEOG	3130	Cr=3.00	The Global Economy
GEOG	3140	Cr=3.00	Retailing, Shopping, Society and Space
GEOG	3200	Cr=3.00	Terrestrial Ecosystems
GEOG	3220	Cr=3.00	Advanced Urban Geography
GEOG	3220	Cr=6.00	Advanced Urban Geography
GEOG	3250	Cr=3.00	Environmental Perception and Disasters
GEOG	3300	Cr=3.00	Space/Place
GEOG	3340	Cr=3.00	Geoinformatics: GIS I
GEOG	3360	Cr=3.00	Morphogenesis of Soils
GEOG	3370	Cr=3.00	International Development
GEOG	3400	Cr=3.00	Dimensions of Difference
GEOG	3421	Cr=3.00	Intermediate Stats Methods in Geography
GEOG	3440	Cr=3.00	Geoinformatics: Remote Sensing I
GEOG	3490	Cr=3.00	Making Canada
GEOG	3500	Cr=3.00	Biogeography
GEOG	3510	Cr=3.00	Methods of Sediment
GEOG	3520	Cr=3.00	Designing and Conducting Research
GEOG	3540	Cr=3.00	Field Studies in Physical Geography
GEOG	3590	Cr=3.00	Conservation in Canada



GEOG	3590	Cr=3.00	Conservation in the GTA
GEOG	3600	Cr=3.00	Nations and Nationalisms
GEOG	3650	Cr=6.00	WiredCities: Comm., Tech. & Changing Urb
GEOG	3700	Cr=3.00	Disaster! Earth's Extreme Events
GEOG	3710	Cr=3.00	South Asia: Society, Space & Environment
GEOG	3730	Cr=6.00	Comparative Urban Development
GEOG	3750	Cr=3.00	Africa: Impoverishment of a Continent
GEOG	3760	Cr=3.00	The Philippines Geographical Perspective
GEOG	3770	Cr=3.00	Housing Policy and Income Security Polic
GEOG	3800	Cr=3.00	Geographies of Work
GEOG	3900	Cr=3.00	Physical Geography of the City
GEOG	4000	Cr=6.00	Honours Thesis
GEOG	4020	Cr=3.00	The Caribbean Islands since 1492
GEOG	4040	Cr=6.00	Urban Historical Geography
GEOG	4050	Cr=3.00	Nature Neoliberalism Political Ecology
GEOG	4051	Cr=3.00	Comp. Politics of Environ. & Development
GEOG	4060	Cr=3.00	Hist. Geographies of Gender & Sexuality
GEOG	4090	Cr=3.00	Urban Identities
GEOG	4095	Cr=3.00	Aboriginal Space and the City
GEOG	4130	Cr=3.00	Planning Suburbs
GEOG	4150	Cr=3.00	Foodscapes and Agri-scapes
GEOG	4160	Cr=3.00	Risk Assessment in Resource Management
GEOG	4170	Cr=3.00	Immigration, Ethnicity and Race
GEOG	4180	Cr=3.00	Lab. Analysis of Ecological Materials
GEOG	4190	Cr=3.00	Geographies of the Ethnic Economy
GEOG	4200	Cr=3.00	Water Quality and Stream Ecosystems
GEOG	4205	Cr=3.00	Climatology of High Latitudes
GEOG	4210	Cr=3.00	Hydrometeorology
GEOG	4215	Cr=3.00	Ecological Climatology
GEOG	4220	Cr=3.00	Geographies of Industry: Neoliberal Era
GEOG	4240	Cr=3.00	The Planning of Urban Public Facilities
GEOG	4250	Cr=3.00	Imagined Landscapes
GEOG	4260	Cr=3.00	Applied Transportation Geography
GEOG	4280	Cr=3.00	Imagining Toronto: Literary Geographies
GEOG	4290	Cr=3.00	Directed Reading
GEOG	4290	Cr=6.00	Directed Reading
GEOG	4310	Cr=3.00	Dynamics of Snow and Ice
GEOG	4340	Cr=3.00	Geoinformatics: GIS II
GEOG	4370	Cr=3.00	Geography of Third World Development
GEOG	4380	Cr=3.00	Urban Social Policy
GEOG	4395	Cr=3.00	Asia-Pacific Dev. Geog. Perspectives
GEOG	4400	Cr=3.00	Physical Hydrology and Water Resources
GEOG	4410	Cr=3.00	Desert Ecosystems
GEOG	4420	Cr=3.00	Project Experience in Geography
GEOG	4440	Cr=3.00	Geoinformatics: Remote Sensing II
GEOG	4500	Cr=3.00	Northern Forest Environments
GEOG	4520	Cr=3.00	Research Design and Field Studies

GEOG	4521	Cr=6.00	Field Studies in Human Geography
GEOG	4541	Cr=3.00	Adv Field Studies in Physical Geography
GEOG	4600	Cr=3.00	Rivers: Environment and Process
GEOG	4605	Cr=3.00	The Greater Toronto Area
GEOG	4610	Cr=3.00	Geopolitics
GEOG	4700	Cr=3.00	The Critical Geographies of Education
GEOG	4750	Cr=3.00	Geog of Disabilities
GEOG	4800	Cr=3.00	Geographies of Organized Labour
GEOG	4850	Cr=3.00	The state, civil society and development
GEOG	4880	Cr=3.00	Spaces of Conflict, Violence, and Power
GEOG	4900	Cr=3.00	Public Space
GEOG	4999	Cr=3.00	Research Paper

## Graduate Geography courses

	Course #	Credits	Title
GEOG	5004	Cr=1.50	SelectedTopics in Geographic Methodology
GEOG	5005	Cr=1.50	SelectedTopics in Geographic Methodology
GEOG	5006	Cr=1.50	SelectedTopics in Geographic Methodology
GEOG	5010	Cr=3.00	Seminar In The Theory Of Geography
GEOG	5011	Cr=1.00	Graduate Colloquium
GEOG	5015	Cr=3.00	Remote Sen.& Image Pro. for Geog Analy.
GEOG	5025	Cr=3.00	Research Design and Formulation
GEOG	5050	Cr=3.00	Geog. Info Systems & Spatial Analysis
GEOG	5051	Cr=3.00	Spatial Analysis in Geography
GEOG	5107	Cr=3.00	Citizenship, Identity and Space
GEOG	5108	Cr=3.00	Citizenship, Identity and Space II
GEOG	5111	Cr=3.00	Cosmopolitics: Globalizations
GEOG	5201	Cr=3.00	Selected Topics in Critical Human GEOG
GEOG	5202	Cr=3.00	Selected Topics in Critical Human GEOG
GEOG	5203	Cr=1.50	Selected Topics in Critical Human GEOG
GEOG	5204	Cr=1.50	Selected Topics in Critical Human GEOG
GEOG	5205	Cr=1.50	Selected Topics in Critical Human GEOG
GEOG	5205	Cr=3.00	Special Topics in Critical Human GEOG
GEOG	5206	Cr=1.50	Selected Topics in Critical Human GEOG
GEOG	5208	Cr=3.00	Doctoral Seminar in Critical Human GEOG
GEOG	5209	Cr=3.00	Masters Seminar in Critical Human GEOG
GEOG	5230	Cr=3.00	Cultural and Social Theory for Geographe
GEOG	5260	Cr=3.00	Geography of Disability
GEOG	5301	Cr=1.50	Sel. Topics in Social & Economic Space
GEOG	5302	Cr=1.50	Sel. Topics in Social & Economic Space
GEOG	5304	Cr=1.50	Sel. Topics in Social & Economic Space
GEOG	5305	Cr=1.50	Topics in Social and Economic Space
GEOG	5310	Cr=3.00	Applied Transportation Geography
GEOG	5314	Cr=3.00	Cultures of Cities
GEOG	5320	Cr=3.00	Geographies of Industry in a Neoliberal
GEOG	5325	Cr=3.00	Environmental Justice
GEOG	5326	Cr=3.00	Critical Political Ecologies
GEOG	5327	Cr=3.00	Matters of Nature: Theories and Politics
GEOG	5330	Cr=3.00	Feminist Geographies of Space and Place
GEOG	5335	Cr=3.00	Geo.Organized Labour.:Worker Struggles
GEOG	5350	Cr=3.00	Immigration, Ethnicity & Race in Modern
GEOG	5353	Cr=3.00	Immigration and Ethnicity
GEOG	5355	Cr=3.00	Seminar in Political Geography
GEOG	5360	Cr=3.00	Geographies of Globalization and Develop
GEOG	5370	Cr=3.00	Space, Power and the City
GEOG	5375	Cr=3.00	Space, Place and Capitalism: Themes in H
GEOG	5385	Cr=3.00	Decision Support Systems: Theory & Appli
GEOG	5395	Cr=3.00	Int'l Polit. Econ. & Ecol. Summer School
GEOG	5410	Cr=3.00	Resource Management

GEOG	5580	Cr=3.00	Global Cities
GEOG	5600	Cr=3.00	Research Seminar in Physical Geography
GEOG	5601	Cr=3.00	Topics in Physical Geography
GEOG	5602	Cr=3.00	Climatology of High Latitudes
GEOG	5605	Cr=1.50	Topics in Physical Geography
GEOG	5606	Cr=1.50	Topics in Physical Geography
GEOG	5607	Cr=3.00	Ecological Climatology
GEOG	5608	Cr=3.00	Hydrometeorology
GEOG	5610	Cr=3.00	Biogeochemistry of Stream Ecosystems
GEOG	5620	Cr=3.00	Quaternary Stratigraphy
GEOG	5630	Cr=3.00	Physical Hydrology of Water
GEOG	5645	Cr=3.00	Dynamics of Snow and Ice
GEOG	5695	Cr=3.00	Fluvial Geomorphology
GEOG	5700	Cr=3.00	Asian Studies: Critical Perspectives
GEOG	6010	Cr=0.00	M.A./M.Sc. Research Paper
GEOG	6050	Cr=3.00	M.A./M.Sc. Directed Reading Course
GEOG	6060	Cr=3.00	Ph.D. Directed Reading Course

### **COURSES OFFERED IN URBAN STUDIES \*(LAPS)**

URST	2410	Cr=6.00	Introduction to Urban Studies
URST	2420	Cr=6.00	Intro. to Planning Concepts and Methods
URST	3430	Cr=6.00	The Nature of Urban Populations
URST	3800	Cr=3.00	Investigating Urban Envir. Contamination
URST	4130	Cr=3.00	Planning Suburbs
URST	4490	Cr=3.00	Directed Reading
URST	4490	Cr=6.00	Directed Reading

To fulfil URST program and degree requirement, most courses are from the Department of Social Science, as well as the following units:

Department of Economics

Department of English Department

of Geography German Studies

Department of History Department

of Political Science Department of

Psychology Department of

Sociology

Faculty of Environmental Studies

Faculty of Fine Arts

## Office of the Vice-President Academic and Provost

### Memorandum

To: L. Jacobs, Chair, Senate APPRC  
L. Farley, Chair, Senate ASCP

From: Lisa Philipps, Interim Vice-President Academic & Provost

Date: May 17, 2017

Subject: Proposal for Merger of Faculty of Environmental Studies and Geography Department

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I have reviewed a preliminary proposal from the Faculty of Environmental Studies and the Department of Geography in the Faculty of Liberal Arts & Professional Studies with regard to the framework (setting out objectives, principles, and timelines) for a merger of the two units. I am writing to record my support for a motion for approval in principle of this merger. Approval of the motion will enable planners to pursue the directions under consideration and allow discussions of the more detailed plans for the merger to move forward. It is understood that, should these discussions result in agreement, a motion to approve a merger would be brought forward to the appropriate governing bodies. It should be noted that opportunities are also being explored for other units such as the Urban Studies Program and the CITY Institute to participate.

The current proposal is the result of extensive discussions among colleagues in FES and the Department; the Provost's Office has been consulted at various stages during these discussions. I wish to acknowledge the significant time and energy that colleagues have invested in this process to date and to signal my enthusiastic support for their continued efforts to develop a more detailed plan that would move the initiative to the next stage.

Several reasons have been advanced for the potential merger. The proposal arises in part out of the IIRP process, which called upon Faculties and units to seek means of enhancing the quality and sustainability of their programs, including through harmonizing, rationalizing and streamlining curricula and programming, as well as recent Cyclical Program Reviews of each unit. Both FES and Geography have experienced enrolment declines in their undergraduate programs (and to a lesser extent at the graduate level) in recent years. The array of program and course options offered

## **Office of the Vice-President Academic and Provost**

across these two units and others may be confusing, contributing to difficulty in clearly presenting the programs to potential students and therefore in competing for applications and enrolments with programs offered by other universities. A merger will enable a more coordinated approach to curriculum planning and, importantly, to the presentation of program options in a clear and integrated way that conveys to potential students the opportunities available to them. A new vision for the programs involved should result in the better deployment of teaching and other resources in support of advancing synergies between the units and York's academic priorities with a view towards development of new program directions. The proposal envisions the creation of a "hub" of geographical and environmental activity at York that will contribute to the visibility of this area of study, support community outreach initiatives, and promote interdisciplinarity and research and teaching collaborations. A name is yet to be identified for the Faculty, but it is understood that this will be part of the planning efforts.

The proposal also sets out a series of principles that have been agreed upon underpinning the discussions, including the expectations that plans will align with SHARP and that the changes will be cost neutral, with central support for transition costs. The principles also set out approval processes for various kinds of academic and administrative proposals associated with a merger.

It is my expectation that further discussions and ultimately a formal proposal for merger submitted for approval by governance bodies will be accompanied by a more detailed plan that addresses the following matters:

- The administrative and governance structures to be put in place for the merged Faculty
- Plans for the harmonization/rationalization/streamlining of curriculum and programs based on clear Undergraduate/Graduate Degree Level Expectations and curriculum mapping that enables students to understand program pathways and opportunities for mobility between them
- Details of plans to enhance the visibility of programs and recruit potential students to them
- Commentary on the kinds of distinctive new programs, certificates and courses that might be developed in response to student interest and our commitment to innovation
- Enrolment projections for the years following a merger and at steady state

I will also expect to receive a sustainability plan indicating how the new Faculty will eliminate its in-year deficit over the five year period following a merger, including any

## **Office of the Vice-President Academic and Provost**

transitional resources required and projected revenues and budget savings following a merger.

To be clear, I understand that many of the steps needed to implement these plans, such as approval of specific curricular changes through Faculty Council and Senate, would need to take place after a merger. Nonetheless as much work as possible should be done to concretize the vision for a new Faculty and how it would be realized in a sustainable form prior to bringing a formal merger proposal forward. I would welcome additional information about the proposed timeline for such a motion so that we can work together toward that goal.

I commend colleagues in FES and Geography for the significant progress thus far, and look forward to participating in these ongoing discussions.

A handwritten signature in black ink, appearing to read "Dean Sturgeon". The signature is fluid and cursive, with a large initial "D" and "S".

Cc: Dean N. Sturgeon  
Dean A. Mukherjee-Reed  
VPA A. Pitt  
Dean R. Jayawardhana

## Memo

To: York University Senate

From: Noël Sturgeon, Dean, FES

Date: June 5, 2017

Subject: Support for Motion in Principle, FES/GEOG Merger

I am very enthusiastic about the potential bringing together of FES and GEOG in one unit. The faculty in the two units have a long history of working together on research projects, as well as cross-supervision of graduate students. Bringing these units together under the umbrella of a new Faculty structure will facilitate these relationships and strengthen research, teaching, and the student experience. Existing curricular redundancies can be eliminated and resources freed up to create exciting new programs and initiatives. The interdisciplinary framework of FES is a good match with the discipline of Geography, structured as it is around cultural and physical emphases.

The merger of these two units will be a very visible and exciting event for Ontario, and for Canada. Though there is a lot of work ahead of us to decide administrative structures, curricular harmonization, new programs, staffing, and budget, I have been very impressed and heartened by the strong interest and commitment expressed by the faculty of both units in making a merger a reality. This is an initiative that arose entirely from faculty members, and so I believe it is an effort with integrity and energy. I also appreciate the strong support for the proposal from the Deans of LAPS and Science, as well as the Provost.

I am strongly in favor of the motion in principle, as it allows the time for faculty to come to grips with the details entailed in a merger, and to do so with confidence that they will have the time to fully and democratically have the discussion that allows them to make the necessary decisions with comfort that they are the right decisions for FES and for Geography.





# Memorandum

Office of the Dean

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To: Noël Sturgeon, Dean, Faculty of Environmental Studies

From: Ananya Mukherjee-Reed, Dean

Date: May 30, 2017

Subject: Motion in principle for the creation of a New Faculty at York University combining the Department of Geography and the Faculty of Environmental Studies

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I have reviewed the rationale and the Motion in Principle to be considered by Senate on June 15 2017. I understand that the Department of Geography in the Faculty of Liberal Arts & Professional Studies has also passed a motion in its departmental council in support of the motion in principle. I also understand that the Urban Studies program has participated in discussions regarding this proposal in observer capacity and more discussions are needed at this time to determine if and how Urban Studies will participate in this initiative.

I am prepared to support the motion in principle and engage in discussions about the future Faculty as they emerge.



May 31, 2017

**FACULTY OF SCIENCE**

**Office of the Dean**

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Senate APPRC  
Senate ASCP

**Re: Letter of Support - Proposal for Merger of Faculty of Environmental Studies and Geography Department**

I have reviewed the rationale and the Motion in Principle to be considered by Senate on June 15, 2017. Our understanding is that the Faculty of Science will continue to be engaged in offering Bachelor of Science degrees in Geography. With that expectation, I am prepared to support the motion in principle and engage in discussions about the future Faculty as they emerge.

Sincerely,



Ray Jayawardhana  
Dean, Faculty of Science

