MCGILL SCHOOL OF ENVIRONMENT

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1.2 Administrative Officers

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- ion, Registration and Regulations, page 472 CARMAN MILLER, B.A., B.Ed.(Acad.), M.A.(Dal.), Ph.D.(Lond.) Dean, Faculty of Arts
- ALAN G. SHAVER, B.Sc.(Car.), Ph.D.(M.I.T.) Dean, Faculty of Science

PETER G. BROWN, B.A. (Haverford), M.A., Ph.D. (Col.) Director

MARILYN SCOTT, B.Sc. (U.N.B.), Ph.D.(McG,) Associate Director

PETER BARRY, B.Sc.(C'dia), M.Sc.(McG.) Program Coordinator

1.3 Academic Staff

Professor

Peter G. Brown; B.A.(Haverford), M.A., Ph.D.(Columbia) (joint appt. with Geography and Natural Resource Sciences)

Associate Professor

Marilyn Scott; B.Sc.(U.N.B.), Ph.D.(McG.) (joint appt. with Institute of Parasitology)

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- Colin Duncan; B.A.(Queen's), M.A., Ph.D.(York) (joint appt. with History)
- Jaye Ellis; B.Á. (Calg.), LL.B., B.C.L. (McG.), LL.M. (U.B.C.) (joint appt. with Law)
- Frédéric Fabry; B.Sc., M.Sc., Ph.D.(McG.) (joint appt. with Atmospheric and Oceanic Sciences)
- Renée Sieber; B.Sc.(Mich. St.), M.P.A.(W. Mich.), Ph.D.(Rutgers) (joint appt. with Geography)
- Joann Whalen; B.Sc.Agr.(Dal.), M.Sc.(McG.),
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1 The School

1.1 Location

Downtown Campus 3534 University Street Montreal, QC H3A 2A7 Telephone: (514) 398-2827 Fax: (514) 398-1643

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Website: http://www.mcgill.ca/mse

For advising, contact: Program Coordinator, Mr. Peter Barry Telephone: (514) 398-4306 Fax: (514) 398-1643 Email: info@mse.mcgill.ca

- toeintpaptroobstordents an understanding of current environ-
- to provide an exciting and rigorous program that allows for intellectual growth in the comprehension of environmental issues or components of the environment;
- to help students gain an understanding of the complexity and conflicts that underlie most environmental problems;

2 Admission, Registration and Regulations

2.1 Admission

Students may be admitted to B.A. or B.Sc. programs, offered by the MSE on the University's two campuses: the Macdonald Campus and the Downtown Campus. They register as students within their Faculty of admission and are governed by all rules and regulations of that Faculty.

Students who have already completed a Bachelor or an equivalent degree may be admitted to the Diploma in Environment through any of the three MSE Faculties: Agricultural and Environmental Sciences, Arts, and Science. They register as students within their Faculty of admission and are governed by all rules and regulations of that Faculty relative to the Diploma.

Please refer to "Admission Requirements" on page 13.

2.2 Degree Requirements

To be eligible for a B.A. degree, students must fulfil all the Faculty and program requirements as indicated in Faculty of Arts section 2.

To be eligible for a B.Sc. degree, students must fulfil all the Faculty and program requirements as indicated in Faculty of Science section 2.

To be eligible for a Diploma in Environment, students must fulfil all program requirements as specified in section 7

2.3 Important Information about Program Codes

The MSE uses MARS Program Codes to identify which students are in the School's major programs (and, by extension, which students are in the McGill Environmental Students' Society), and the Campus where they are studying. It is important that students

- (b) submit their program of courses already taken and to be taken for the Minor in Environment to the MSE Program Coordinator for approval;
- (c) pass all courses counted towards the Minor with a grade of C or higher;
- (d) complete 18 credits from the courses listed below **not** otherwise counted towards the student's major program or concentration or a second Minor program; and
- (e) ensure that all the credits specified in (c) above are taken outside the discipline or field of the student's major program or concentration.

4.1 Minor Concentration in Environment

(18 credits) [MARS Program Code 7-412000]

This Minor is intended for Arts students in the multi-track system. **Complementary Courses** (18 credits)

See "List of Approved Thematic Category Courses for the Minor and the Diploma" on page 485. Check the departmental listings in this Calendar for full course descriptions and prerequisites, and *info*McGill for current scheduling.

4.2 Minor Program in Environment

(18 credits) [MARS Program Code 6-412000]

This Minor is intended for Science and Agricultural and Environmental Science students, but is open to students from other faculties as well, except Arts.

Complementary Courses (18 credits)

See "List of Approved Thematic Category Courses for the Minor and the Diploma" on page 485. Check the departmental listings in this Calendar for full course descriptions and prerequisites, and *info*McGill for current scheduling.

5 B.A. Faculty Program in Environment

The B.A. Faculty Program has two components: Core and Domain. Students follow three steps in their degree program.

- Introductory Core: The Core consists of four introductory courses where students are exposed to the different approaches, perspectives, and world views that will help them gain an understanding of the complexity and conflicts that underlie most environmental problems. Through the Core program students go beyond the confines of their individual views of environment.
- Domain: Domains provide a trans-disciplinary study of a particular theme or component of the environment. Additional Domains are being developed in several areas. More information on these is available on the MSE website (http://www.mcgill.ca/mse).
- McGill University, Undergraduate Programs 2001-2002

3. Final Core:

to the solution of problems of nutrition and infection by tying the relevant natural sciences to the social sciences.

Check the departmental listings in this Calendar for full course descriptions and prerequisites, and *info*McGill for current scheduling. Courses offered at Macdonald Campus are marked with an *(M)*. (Introductory Core Courses are offered on both campuses.)

Prerequisite or Corequisite Course for Domain (3 credits)

NOTE: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes Core and Required courses, but does not include the Domain prerequisites or corequisites listed above.

Core - Required Courses (18 credits)

5.2 Economics and the Earth's Environment Domain

(54 credits including Core) [MARS Program Codes: Downtown 4-412011; Macdonald 4-412061]

This Domain is open only to students in the B.A. Faculty Program in Environment.

Advisor: Professor Don Baker email: donb@eps.mcgill.ca telephone: (514) 398-7485

Understanding Earth's geologic processes provides us with the knowledge to mitigate many of our society's environmental impacts due to resource extraction and waste disposal. This

Required Course for Domain (3 credits)

Complementary Courses for Domain (33 credits)

Required Courses for Domain (19 credits) 154-230D (6) Microeconomic Theory Core - Required Courses (18 credits)

Complementary Courses for Domain (17 credits)

Domain – Required Courses (15 credits)

Domain - Complementary Courses (21 credits)

5.3 Environment and Development Domain

(54 credits including Core) [MARS Program Codes: Downtown 4-412001; Macdonald 4-412051] (Program revisions awaiting University approval)

This Domain is open only to students in the B.A. Faculty Program in Environment.

Advisor: Professor Oliver Coomes email: coomes@geog.mcgill.ca telephone: (514) 398-4943

The quest for sustainable paths to economic development requires scholars and practitioners to transcend the boundaries of traditional disciplines. This Domain offers students sufficient depth and breadth of study to acquire a strong grasp of current theories, concepts, and approaches to environment and development. It prepares them for graduate study in interdisciplinary programs (e.g., development studies or environmental studies) as well as in integrative social sciences (e.g., anthropology, geography, etc.).

Check the departmental listings in this Calendar for full course descriptions and prerequisites, and *info*McGill for current scheduling. Courses offered at Macdonald Campus are marked with an *(M)*. (Introductory Core Courses are offered on both campuses.)

NOTE: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes Core and Required courses.

McGill Home Page

6 B.Sc. Major Program in Environment

The B.Sc. Major has two components: Core and Domain. Students follow three steps in their degree program.

- Introductory Core: The Core consists of four introductory courses where students are exposed to the different approaches, perspectives, and world views that will help them gain an understanding of the complexity and conflicts that underlie most environmental problems. Through the Core program students go beyond the confines of their individual views of environment.
- 2. Domain: Domains provide a trans-disciplinary study of a par-

6.2 Biodiversity and Conservation Domain

(60 credits including Core) [MARS Program Codes: Downtown 1-412002; Macdonald 1-412052]

This Domain is open only to students in the B.Sc. Major in Environment program.

Advisors: Professor Graham Bell email: gbell2@maclan.mcgill.ca telephone: (514) 398-4086 local 4087

> Professor David Green email: david.m.green@mcgill.ca telephone: (514) 398-4086 local 4088

This Domain links the academic study of biological diversity with the applied field of conservation biology. The study of biological diversity, or 'biodiversity', lies at the intersection of evolution with ecology and genetics, combining the subdisciplines of evolutionary ecology, evolutionary genetics and ecological genetics. It has two main branches, the creation of diversity and the maintenance of diversity. Both processes are governed by a general mechanism of selection acting over different scales of space and time. This gives rise to a distinctive set of principles and generalizations that regulate rates of diversification and levels of diversity, as well as the abundance or rarity of different species. Conservation biology constitutes the application of these principles in the relevant social and economic context to the management of natural systems, with the object of preventing the extinction of rare species and maintaining the diversity of communities. As the impact of industrialization and population growth on natural systems has become more severe, conservation has emerged as an important area of practical endeavour.

Check the departmental listings in this Calendar for full course descriptions and prerequisites, and *info*McGill for current schedul-

6.3 Earth Sciences and Economics Domain

(63 credits, minimum, including Core) [MARS Program Codes: Downtown 1-412007; Macdonald 1-412057]

human health. The distribution of infectious diseases is influenced by the climatic conditions that permit vectors to coexist with man, by deforestation, by urbanization, and by human interventions ranging from the building of dams to provision of potable water.

In designing interventions that aim to prevent or reduce infectious contaminants in the environment, or to improve food production and nutritional quality, not only is it important to understand methods of intervention, but also to understand social forces that influence how humans respond to such interventions.

Students in the Population Stream will gain a depth of understanding at an ecosystem level that looks at society, land and population health. Students in the Cellular Stream will explore the interactions in more depth, at a physiological level.

Check the departmental listings in this Calendar for full course descriptions and prerequisites, and infoMcGill for current scheduling. Courses offered at Macdonald Campus are marked with an (M). (Introductory Core Courses are offered on both campuses.)

Ecological Determinants of Health Domain -Population Stream (57 credits, minimum)

NOTE: Students are required to take a maximum of 31 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes Core and Required courses.

Core - Required Courses (18 credits)

•	courses (to creaits)
170-200 (3)	The Global Environment
170-201 (3)	Society and Environment
170-202 (3)	The Evolving Earth
170-203 (3)	Knowledge, Ethics and Environment
170-400 (3)	Environmental Thought
170-401 (3)	Environmental Research
Required Course	es for Domain - Population Stream (6 credits)
382-361 (3)	Environmental Toxicology (M)
391-410 (3)	Environment and Infection (M)
Complementary	Courses for Domain (33 credits, minimum)
	im, from the following List A:
166-234 (3)	Population and Society
or 166-222 (3)	Urban Sociology
333-211 (3)	Biochemistry I (M)
or 177-200 (3)	Molecular Biology
or 177-201 (3)	Cell Biology and Metabolism
356-204 (4)	Genetics (M)
or 177-202 (3)	Basic Genetics
382-207 (3)	Nutrition and Health (M)
or 382-307 (3)	Human Nutrition (Video Conference:
(-)	Downtown and Macdonald)
or 342-330 (3)	Fundamentals of Nutrition (M)
374-410 (3)	The Forest Ecosystem (M)
or 177-465 (3)	Conservation Biology
or 177-483 (3)	Stats in Population Biology
or 360-306 (3)	Mathematical Methods in Ecology (M)
or 367-460 (3)	Plant Ecology (M)
or 373-331 (3)	Microbial Ecology (M)
or 375-410 (3)	Wildlife Ecology (M)
189-203 (3)	Principles of Statistics I
or 360-310 (3)	Statistical Methods I (M)
or equivalent	
6 credits from the	following List B:
166-254 (3)	Development and Underdevelopment
or 101-292 (3)	History and the Environment
or 151-212 (3)	Anthropology of Development
or 330-210 (3)	Agro-Ecological History (M)
336-217 (3)	Hydrology and Drainage (M)
or 183-321 (3)	Climatic Environments
or 183-322 (3)	Environmental Hydrology
or 330-250 (3)	Principles of Ecological Agriculture (M)
or 338-510 (3)	Agricultural Micrometeorology (M)
. ,	· ·

or 107-343 or 154-208 or 177-535	(3) (3) (3) (3) (3)	Management Theories and Practices <i>(M)</i> Biomedical Ethics Microeconomic Analysis and Applications Political Ecology Society and Change
9 credits from	the f	following list C:
	(3)	Environmental Sociology
or 183-300	(3)	Human Ecology in Geography
or 183-498	(3)	Humans in Tropical Environments (in Panama)
or 204-533	(3)	International Health Psychology
528-324	(3)	Fundamental Virology
or 391-400	(3)	Eukaryotic Cells and Viruses (M)
	(3)	Immunology (M)
or 513-637L	(3)	Infectious and Parasitic Disease Epidemiology
	(3)	Immunology
or 528-413	(3)	Parasitology
	(3)	Ecology of Human Nutrition (M)
	(3)	International Agriculture (M)
	(3)	Food Toxicants and Health Risks (M)
	(3)	Nutrition in Developing Countries (M)
or 382-512	(3)	Herbs, Foods and Phytochemicals (Video Conference: Downtown and Macdonald)
302-230	(3)	Environmental Aspects of Technology
or 183-201	(3)	Geographic Information Systems I
or 183-302	(3)	Environmental Analysis and Management
or 336-330	(3)	GIS for Biosystems Management (M)
or 375-437	(3)	Assessing Environmental Impact (M)
375-333	(3)	Physical and Biological Aspects of Pollution (M)
or 177-350	(3)	Insect Biology and Control
	(3)	Agro-Food Waste Management (M)
or 350-452	(3)	Biocontrol of Insect Pests (M)
or 367-361	(3)	Pest Management and the Environment (M)

Ecological Determinants of Health Domain -Cellular Stream (57 credits, minimum)

NOTE: Students are required to take a maximum of 31 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes Core and Required courses.

Core -	Required	Courses	(18 credits)
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170-200	(3)	The Global Environment
170-201	(3)	Society and Environment
170-202	(3)	The Evolving Earth
170-203	(3)	Knowledge, Ethics and Environment
170-400	(3)	Environmental Thought
170-401	(3)	Environmental Research
Required Co	ourse	es for Domain (6 credits)
382-361		Environmental Toxicology (M)
391-410	(3)	Environment and Infection (M)
Complemen	tary	Courses for Domain (33 credits, minimum)
18 credits, m	inimu	um, chosen from List A:
166-234	(3)	, ,
		Urban Sociology
333-211	(3)	Biochemistry I (M)
or 177-200	(3)	Molecular Biology
		Genetics (M)
or 177-202	(3)	Basic Genetics
		Cellular Biology (M)
or 177-201		Cell Biology and Metabolism
or 342-234	(3)	Biochemistry II (M)
382-307	(3)	Human Nutrition (Video Conference: Downtown and Macdonald)
or 342-330	(3)	Fundamentals of Nutrition (M)
189-203	(3)	Principles of Statistics I
or 360-310	(3)	Statistical Methods I (M)
or equivale	nt	

6 credits, min	imum,	in environmental sciences chosen from:
177-331	(3)	Ecology/Behavior Field Course
177-526	(3)	Plants and Extreme Environments
183-300	(3)	Human Ecology in Geography
183-302	(3)	Environmental Analysis and Management
183-494	(3)	Urban Field Studies
183-499	(3)	Subarctic Field Studies in Geography: Schefferville
306-451	(3)	Environmental Controls
349-313	(3)	Zoogeography (M)
367-460	(3)	Plant Ecology (M)
374-300	(3)	Urban Forests and Trees (M)
374-420	(3)	Environmental Issues in Forestry (M)
375-333	(3)	Physical and Biological Aspects of Pollution (M)
375-401	(4)	Fisheries and Wildlife Management (M)
6.6 Food	Proc	Juction and Environment Domain

roduction and Environment Domain

(63 credits, minimum, including Core) [MARS Program Codes: Downtown 1-412010; Macdonald 1-412060] (Revisions awaiting University approval)

This Domain is open only to students in the B.Sc. Major in Environment program.

Advisor: TBA. Contact Mr. Pete Barry, MSE Program Coordinator email: info@mse.mcgill.ca telephone: (514) 398-4306 or refer to the Website, http://www.mcgill.ca/mse

The business of food production is an area of human activity with a large and intimate interaction with the environment. Modern agriculturalists must strike a delicate balance between trying to provide food for themselves, their families and urban dwellers while trying to minimize environmental damage. When negative effects due to agricultural activities do occur, they are not usually the classic point source effects that we have come to associate with industry or large cities. Rather, the effects are over extremely large land areas cumulating, perhaps, in pollution of river systems or lakes some distance away. As world populations grow, and as diets change, potentially negative interactions between agricultural systems and other facets of the environment will become more frequent. In the same way, urban sprawl will make conflicts between agriculture and urbanites more common.

Check the departmental listings in this Calendar for full course descriptions and prerequisites, and infoMcGill for current scheduling. Courses offered at Macdonald Campus are marked with an (M). (Introductory Core Courses are offered on both campuses.)

Prerequisite or Corequisite Courses for Domain

(6 credits, minimum)

333-211 (3) Biochemistry I (M)

or 177-112 (3) Cell and Molecular Biology

or CEGEP equivalent (e.g., CEGEP objective 00XU)

(4) Organic Chemistry (M) 333-230

or 180-212 (4) Introductory Organic Chemistry I

or CEGEP equivalent (e.g., CEGEP objective 00XV)

NOTE: Students are required to take a maximum of 34 credits at the 200 level and a minimum of 15 credits at the 400 level or higher in this program. This includes Core and Required courses, but does not include the Domain prerequisites or corequisites listed above.

Core - Required Courses (18 credits)

The Global Environment 170-200 (3)

- 170-201 (3)Society and Environment
- 170-202 The Evolving Earth (3)
- 170-203 (3) Knowledge, Ethics and Environment
- Environmental Thought 170-400 (3)
- 170-401 (3)Environmental Research

Pequired Co		ne for Domain (12 oradita)
		es for Domain (12 credits)
330-210	(3)	Agro-ecological History (M)
367-211	(3)	Principles of Plant Science (M)
367-300	(3)	Cropping Systems (M)
375-375	(3)	Issues in Environmental Sciences (M)
Complemen	tary	Courses (33 credits, minimum)
		Basic Sciences
330-250	(3)	Principles of Ecological Agriculture (M)
or 342-250	(3)	Principles of Animal Science (M)
344-205	(3)	Principles of Ecology (M)
or 177-208	(3)	Ecology
356-204	4)	Genetics (M)
or 177-202	(3)	Basic Genetics
360-310	(3)	Statistical Methods I (M)
or equivale	nt	
372-210	(3)	Principles of Soil Science (M)
or 183-305	(3)	Soils and Environment
12 credits of		ed Sciences
177-465	(3)	Conservation Biology
177-553	(3)	Neotropical Environments (in Panama)
183-302	(3)	Environmental Analysis and Management
183-322	(3)	Environmental Hydrology
or 336-217	(3)	Hydrology and Drainage (M)
330-411	(3)	International Agriculture (M)
330-430	(3)	Ecological Agricultural Systems (M)
330-435	(3)	Soil and Water Quality Management (M)
330-550	(3)	Sustained Tropical Agriculture (in Panama) (AUA)
333-200	(3)	Introduction to Food Science (M)
or 382-207		Nutrition and Health (M)
333-535	(3)	Food Biotechnology (M)
336-322	(3)	Agro-Food Waste Management (M)
336-518	(3)	Pollution Control for Agriculture (M)
342-501	(3)	Advanced Animal Production Systems (M)
367-361	(3)	Pest Management and the Environment (M)
367-434	(3)	Weed Biology and Control (M)
372-315	(3)	Soil Fertility and Fertilizers (M)
372-410	(3)	Soil Chemistry (M)
373-331	(3)	Microbial Ecology (M)
373-521	(3)	Soil Microbiology and Biochemistry (M)
375-401	(4)	Fisheries and Wildlife Management (M)
375-333	(3)	Physical and Biological Aspects of Pollution
	-	(M)
375-437	(3)	Assessing Environmental Impact (M)
382-361	(3)	Environmental Toxicology (M)
382-406	(3)	Ecology of Human Nutrition (M)
391-410	(3)	Environment and Infection (M)
6 credits in S	ocial	Sciences / Humanities

- (3) Environment and Development 151-418
- 154-225 (3) Economics of the Environment

166-254 (3) Development and Under1Ht

6.7 Renewable Resource Management Domain

(60 credits including Core) [MARS Program Codes: Downtown 1-412006; Macdonald 1-412056]

This Domain is open only to students in the B.Sc. Major in Environment program.

Advisor: Professor Benoît Côté, email: coteb@nrs.mcgill.ca telephone: (514) 398-7952

Renewable resource management is an emerging field that focuses on the ecosystem structures and processes required to sustain the delivery, to humanity, of ecosystem goods and services such as food, clean water and air, essential nutrients, and the provision of beauty and inspiration. Renewable resource management recognizes humans as integral components of ecosystems and is used to develop goals that are consistent with sustainability and ecosystem maintenance.

The Renewable Resource Management domain provides students with an understanding of: 1)the interactions between physical and biological factors that determine the nature and dynamics of populations and entities in the natural environment; 2) the ways in which ecosystems can be managed to meet specific goals for the provision of goods and services; 3) the economic and social factors that determine how ecosystems are managed; 4) the ways in which management of natural resources can affect the capability of natural ecosystems to continue to supply human needs in perpetuity; and 5) the approaches and technologies required to monitor and analyze the dynamics of natural and managed ecosystems.

Check the departmental listings in this Calendar for full course descriptions and prerequisites, and *info*McGill for current scheduling. Courses offered at Macdonald Campus are marked with an *(M)*. (Introductory Core Courses are offered on both campuses.)

Prerequisite or Corequisite Courses for Domain (6 credits, minimum)

NOTE: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes Core and Required courses, but does not include the Domain prerequisites or corequisites listed above.

Core - Required Courses (18 credits)

6.8 Water Environments and Ecosystems Domain

(54 credits including Core) [MARS Program Codes: Downtown 1-412003; Macdonald 1-412053] This Domain is open only to students in the B.Sc. Major in Environment program.

Domain - Complementary Courses (42 credits)

Water Environments and Ecosystems Domain –

Physical Stream (54 credits minimum)

This Domain is open only to students in the B.Sc. Major in Environment program.

Advisor: Professor Peter Yau email: yau@rainband.meteo.mcgill.ca telephone: (514) 398-3719

Check the departmental listings in this Calendar for full course descriptions and prerequisites, and *info*McGill for current scheduling. Courses offered at Macdonald Campus are marked with an *(M)*. (Introductory Core Courses are offered on both campuses.)

Recommended Corequisite Course for Domain (3 credits)

NOTE: Students are required to take a maximum of 30 credits

7 Diploma In Environment

8.3 Bay of Fundy Field Study Semester (Awaiting University approval)

Contingent upon University approval, a new field study program for McGill students will be offered during fall semester 2001.

Students in the program could earn 15 credits through field courses and research while living at the Huntsman Marine Science Centre on the Bay of Fundy. The program will be aimed at final-year students with a GPA of at least 3.00.

In addition to the regular McGill fees, the field semester fee is estimated at \$4,300, which would include food and lodging at the Huntsman Marine Science Centre as well as field trips. Travel to St. Andrews, New Brunswick, **would not be** included.

See the MSE website or the Geography Department website at http://www.geog.mcgill.ca/fieldsemester.html for more information on this program.

9 List of Approved Thematic Category Courses for the Minor and the Diploma

Notes:

- This list is not meant to be exclusive. Courses not on the list may be included in the Minor or Diploma with the permission of the MSE Program Coordinator.
- 2. Most courses listed at the 300 level and higher have prerequisites. Although instructors may waive prerequisites in some cases, students are urged to prepare their program of study well before their final year.
- Not all courses are available in any given year. Check the departmental listings in this Calendar for full course descriptions and prerequisites, and *info*McGill for current scheduling.

SOCIAL SCIENCES AND POLICY

Anthropolog	у
151-206 (3)	Environment and Culture
151-212 (3)	Anthropology of Development
151-339 (3)	Ecological Anthropology
Economics	
154-205 (3)	An Introduction to Political Economy
154-225 (3)	Economics of the Environment
154-326 (3)	Ecological Economics
154-347 (3)	Economics of Climate Change
154-405 (3)	Natural Resource Economics
Environment	
170-201 (3)	Society and Environment
170-203 (3)	Knowledge, Ethics and Environment
170-400 (3)	Environmental Thought
Geography	
183-200 (3)	Geographical Perspectives on World Environmental Problems
183-216 (3)	Geography of the World Economy
183-300 (3)	Human Ecology in Geography
183-301 (3)	Geography of Nunavut
183-302 (3)	Environmental Analysis and Management
183-410 (3)	Geography of Underdevelopment: Current Problems
Law	
Students mus	t complete the Special Student application form at
	Law, and must also provide the Law Faculty with a
C.V., a transc	ript, and a letter stating why they want to take the

C.V., a transcript, and a letter stating why they want to take the course. Students should also speak with the professor of the course in question.

	(-)	
		the Law Calendar for details.)
389-508	(2)	Research Seminars (Several are available, check

389-580 (3) Environment and the Law

Philosophy

- 107-230 (3) Introduction to Moral Philosophy I
- 107-237 (3) Contemporary Moral Issues
- 107-334 (3) Ethics I

Political Science

- 160-211 (3) Introduction to Comparative Politics
- 160-212 (3) Government and Politics of the Developed World
- 160-227 (3) Developing Areas/Introduction
- 160-345 (3) International Organization
- 160-445 (3) IPE: North-South Relations
- Psychology

204-215 (3) Social Psychology

Religious Studies

- 260-270 (3) Religious Ethics and the Environment
- 260-370 (3) Justice, Human Rights and Religion
- 260-376 (3) Religious Ethics

Sociology

- 166-234 (3) Population and Society
- 166-235 (3) Technology and Society
- 166-254 (3) Development and Underdevelopment
- 166-328 (3) Environmental Sociology
- 166-366 (3) Social Change in the Caribbean

Agricultural Economics (Macdonald Campus)

- 334-231 (3) Economic Systems of Agriculture
- 334-333 (3) Resource Economics
- 334-430 (3) Agriculture, Food and Resource Policy

Religious Studies (Macdonald Campus)

260-270A(3) Religious Ethics and the Environment

Renewable Resources (Macdonald Campus)

375-415 (2) Conservation Law

NATURAL SCIENCES AND TECHNOLOGY Architecture

301-375 (2) Landscape 301-377 (2) Energy, Environment and Buildings 301-378 (3) Site Usage Atmospheric and Oceanic Sciences 195-210 (3) Introduction to Atmospheric Science 195-215 (3) Weather Systems and Climate 195-220 (3) Introduction to Oceanic Sciences Biology Ecology 177-208 (3) 177-305 (3) Diversity of Life 177-365 (3) **Conservation Biology** 177-432 (3) Limnology 177-473 (3) Ecology of Aquatic Invertebrates Chemistry 180-201 (3) Modern Inorganic Chemistry I 180-212 (4) Introductory Organic Chemistry I 180-301 (3) Modern Inorganic Chemistry II 180-307 (3) Environmental Analysis 180-350 (3) Earth, Fire, Air and Water **Chemical Engineering** 302-230 (3) Environmental Aspects of Technology 302-471 (3) Industrial Water Pollution Control Industrial Air Pollution Control 302-472 (3) **Civil Engineering** 303-225 (4) **Environmental Engineering** 303-323 (3) Hydrology and Water Resources Solid Waste Management 303-526 (3) 303-550 (3) Water Resources Management 303-553 Stream Pollution and Control (3) 303-555 (3) **Environmental Data Analysis**