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Note: Thr oughout this publication, "you" r efers to students newly admitted, eadmitted or returning to McGill.

## **Publication Information**

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## 1 AbbMGISc b6En izten

McGill s Faculties of Agricultural and Expironmental Science Arts, Science, and wahave forged a unique approach to the study of memment through the interfaculty, trans-disciplinary McGill School of Expronment (MSE).

The growth of technologyglobalizing economies, and rapid increase in populative had dramatic and signi cantvironmental impacts These changes have been accompanied by an increasing reaness of the relationship between humania ctind the evironment. Evironmental problems range from local and short-term detation through to the perturbation observer the entire globe and for manears. The importance of human-vironment relations for evironmental and social well-being, and the convive and con ict involved in evironmental analysis and decision making, requires a depth and breadth of knoledge. The MSE has deeloped its programs with the approach of introducing students to a broad range of ideas early in the program to provide a foundation and an openness upon which more specialized, disciplinaries degree can be usit.

## 2 Missis

The mission of the McGill School of Einonment is:

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to pro

#### Diploma in Environment

section 15.1Diploma in Environment (30 ordits)

## 4 AbbSc bytel by

The people and the programs of the McGill School ofinitionment are described in the folliong sections.

#### 4.1 L**b**

## For advising, contact:

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Macdonald Campus Rowles House 21,111 Laleshore Road Sainte-Anne-de-Bellæie, Quebec H9X 3V9 Telephone: 514-398-7559 Fax: 514-398-7846

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## 4.2 A**LDE**

#### Administrati ve Of cers

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Christopher Manfredi; B.A.(Calg.), M.A., Ph.D.(Clare	emont) Dean, Faculty of Arts
Daniel Jutras; LL.B.(Mont), LL.M.(Harv.)	Dean, Faculty of Law
Martin Grant; B.Sc.(PEI), M.Sc., Ph.Dɑ(ī)	Dean, Faculty of Science
Marilyn Scott; B.Sc.(Ner Br.), Ph.D.(McG.)	Director
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	Associate Director, Nowsea

## Professors

Colin Chapman; B.Sc., M.A., Ph.D.(Altajoint appt. withAnthropology)

## Associate Pofessors

To be eligible for a B.Sc.(Ag. ErSc.) degree, you must ful I all the aculty and program requirements as indicate? ringrams, Couses and University Regulations> Faculties & Shools> Faculty of Agricultural and Environmental SciencesUndergraduate> : Degree Requirements

To be eligible for a B.Sc. geee, you must ful I all the aculty and program requirements as indicated ringrams, Couses and University Regulations>

Students, after consulting with their adviser in their major program or concentration and the MSE Rdvigsamcan declare their intention to do a Minor in Environment.

To obtain a Minor in Evironment, students must:

register for the Minor online, using Mineary

submit their program of courses alreadyenalend to be taken for the Minor in Environment to the MSE PrograAndviser for approval (only courses at the 200 level and above will be approved);

pass all courses countedward the Minor with a grade of C or higher,

complete 18 credits from the courses listed undertion 8.1 Bachelor of Arts (B.A.) - Minor Concentration Environment (18 ordits) or section 8.2 Bachelor of Science (Agricultat and Environmental Sciences) (B.Sc.(Agr.Sc.)) or Babelor of Science (B.Sc.) - Minor Veronment (18 ordits) in this publication and which are not otherwise counterabled the student's major program or concentration or a second minor program; and ensure that all 18 credits are teakoutside the discipline or eld of the student's major program or concentration.

\* Note: If WILD 415 is taken, 1 additional credit of complementary courses must beentak

AGEC 231	(3)	Economic Systems & griculture
AGEC 333	(3)	Resource Economics
AGEC 430	(3)	Agriculture, Food and Resource Polic
AGEC 442	(3)	Economics of Internation algricultural Development
AGRI 210	(3)	Agro-Ecological History
AGRI 411	(3)	Global Issues on Drelopment, Food and Agriculture
ANTH 206	(3)	Environment and Culture
ANTH 212	(3)	Anthropology of Deelopment
ANTH 339	(3)	EcologicalAnthropology
ANTH 512	(3)	Political Ecology
BREE 503	(3)	Water: SocietyLaw and Polig
CIVE 433	(3)	Urban Planning
ECON 205	(3)	An Introduction to Political Economy
ECON 225	(3)	Economics of the Enironment
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
ENVB 437	(3)	Assessing Evironmental Impact
ENVR 201	(3)	Society Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Erironment
ENVR 400	(3)	EnvironmentalThought
GEOG 200	(3)	Geographical Perspectes:World Environmental Problems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geograph of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 300	(3)	Human Ecology in Geograph
GEOG 301	(3)	Geograph of Nunavut
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geograph
GEOG 370	(3)	ProtectedAreas
GEOG 382	(3)	Principles Earth Citizenship
GEOG 403	(3)	Global Health and Enironmental Change
GEOG 408	(3)	Geograph of Development
GEOG 410	(3)	Geograph of Underdeelopment: Current Problems
GEOG 508	(3)	Resources, People and WRo
GEOG 530	(3)	Global Land and Water Resources
GEOG 551	(3)	Environmental Decisions
MGPO 440	(3)	Strategies for Sustainability
NRSC 221	(3)	Environment and Health
NRSC 540	(3)	Socio-Cultural Issues Water
PHIL 230	(3)	Introduction to Moral Philosoph1
PHIL 237	(3)	Contemporary Moral Issues

PHIL 334	(3)	EthicalTheory
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - DelopedWorld
POLI 227	(3)	DevelopingAreas/Introduction
POLI 345	(3)	International Oganizations
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 466	(3)	Public Polig Analysis
PSYC 215	(3)	Social Psychology
RELG 270	(3)	Religious Ethics and the Einonment
RELG 340	(3)	Religion and the Sciences
RELG 370	(3)	Religion and Human Rights
RELG 376	(3)	Religious Ethics
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdelopment
SOCI 386	(3)	Contemporary Social Moements
URBP 201	(3)	Planning the 21st Century City
URBP 506	(3)	Environmental Polig and Planning
URBP 530	(3)	Urban Environmental Planning
WILD 415*	(2)	Conservation Lav

NabGeel

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\*\* Note: you may take MIMM 211 or LSCI 230, but not both; you may take ENVB 315 or BIOL 432, but not both; you may take BIOL 308 or ENVB 305, but not both.

AGRI 340	(3)	Principles of EcologicaAgriculture
AGRI 435	(3)	Soil andWater Quality Management
ANSC 326	(3)	Fundamentals of Population Genetics
ANTH 311	(3)	Primate Behaiour and Ecology
ARCH 375	(2)	Landscape
ARCH 377	(3)	Enegy, Environment and Buildings
ARCH 378	(3)	Site Usage
ATOC 215	(3)	Oceans/Weather and Climate
BIOL 240	(3)	Monteræjian Flora
BIOL 305	(3)	Animal Diversity
BIOL 308**	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Marine Biology
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 432**	(3)	Limnology
BIOL 436	(3)	Evolution and Society

BIOL 465	(3)	Conservation Biology
BREE 217	(3)	Hydrology andWater Resources
BREE 322	(3)	OrganicWaste Management
		Bio-Treatment of

MIMM 324	(3)	FundamentaVirology
NRSC 333	(3)	Pollution and Bioremediation
NRSC 340	(3)	Global Perspecties on Food
NRSC 510	(3)	Agricultural Micrometeorology
NRSC 514	(3)	Freshvæter Ecosystems
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation
PLNT 304	(3)	Biology of Fungi
PLNT 305	(3)	Plant Pathology
PLNT 358	(3)	Flowering Plant Diversity
PLNT 426	(3)	Plant Ecophisiology
PLNT 460	(3)	Plant Ecology
SOIL 300	(3)	Geosystems
WILD 421	(3)	Wildlife Conservation

8.2 Berte6Ste(AbgeEn -MicEn ivte(118)sl iv b66)a(B.Sα(AgEn

v.Sc))dBa b6S6(B.Sc)

This 18-credit Minor is intended for a Eulty of Agricultural and Environmental Science students areaterily of Science students utilis open to students from other faculties as well, acceptArts and Lav.

#### AdigNe

Consultation with the PrograAdviser for approval of course selection to meet program requirements is adultigOnly courses at the 200/tel and above will be approved.

For information about the Minor in Einonment, contact:

Ms. Kathy Roulet, MSE ProgramAdviser

Email: kathy.roulet@mcgill.ca

Telephone: 514-398-4306

#### Cpan yCno s(18)pl

18 credits of complementary courses are selected as/sollo

#### 12 credits of MSE core courses:

Location Note: MSE core courses are taught at both McGillier Down campus and at the Macdonald campus in Sainte-Anne-develocities when the should register in Section 001 of an ENVR course that you plan to the test the Downtown campus, and in Section 051 of an ENVR course that you planet or tak the Macdonald campus.

ENVR 200	(3)	The Global Enironment
ENVR 201	(3)	Society Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Erironment
ENVR 400	(3)	EnvironmentalThought

6 credits of evironmentally related courses selected with the approximation the Program Adviser (at least 3 credits must be in social sciened to Suggested Courses is given below.

## SggteCno eLts

The Suggested Course List is ided into two thematic cateories: Social Sciences and Poliand Natural Sciences and chnology

Most courses listed at the 300 de and higher hae prerequisites.

GEOG 530	(3)	Global Land and Water Resources
GEOG 551	(3)	Environmental Decisions
MGPO 440	(3)	Strategies for Sustainability
NRSC 221	(3)	Environment and Health
NRSC 540	(3)	Socio-Cultural Issues M/ater
PHIL 230	(3)	Introduction to Moral Philosoph1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 334	(3)	EthicalTheory

BIOL 240	(3)	Monteregian Flora
BIOL 305	(3)	Animal Diversity
BIOL 308*	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Marine Biology
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 432*	(3)	Limnology
BIOL 436	(3)	Evolution and Society
BIOL 465	(3)	Consertation Biology
BREE 217*	(3)	Hydrology andWater Resources
BREE 322	(3)	OrganicWaste Management
BREE 518	(3)	Bio-Treatment ofWastes
BTEC 502	(3)	Biotechnology Ethics and Society
CHEE 230	(3)	EnvironmentalAspects offechnology
CHEM 212	(4)	Introductory Oganic Chemistry 1
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 462	(3)	Green Chemistry
CIVE 225	(4)	Environmental Engineering
CIVE 323	(3)	Hydrology andWater Resources
CIVE 550	(3)	Water Resources Management
ENTO 340	(3)	Field Entomology
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
ENVB 305*	(3)	Population & Community Ecology
ENVB 315*	(3)	Science of Inland/Vaters
ENVB 410	(3)	Ecosystem Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 430*	(3)	GIS for Natural Resource Management
		The Global En

GEOG 470	(3)	Wetlands
LSCI 230*	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology
MIME 308	(3)	Social Impact offechnology
MIME 320	(3)	Extraction of Energy Resources
MIMM 211*	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamenta Virology
NRSC 333	(3)	Pollution and Bioremediation
NRSC 340	(3)	Global Perspecties on Food
NRSC 510	(3)	Agricultural Micrometeorology
NRSC 514	(3)	Freshvæter Ecosystems
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation
PLNT 304	(3)	Biology of Fungi
PLNT 305	(3)	Plant Pathology
PLNT 358	(3)	Flowering Plant Dirersity
PLNT 426	(3)	Plant Ecophisiology
PLNT 460	(3)	Plant Ecology
SOIL 300	(3)	Geosystems
WILD 421	(3)	Wildlife Conservation

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## 9 B.A.FbpPr giEn izten

The B.A. Faculty Program has towcomponents: Core and Domain. Students viothoree steps in their gree program.

- Core: The Core consists of four introductory courses and one intermediatedurse where students are persectives, and world views that will help them agin an understanding of the compite and con icts that underlie most vinonmental problems. Through the core program, students godonel the con nes of their invitidual views of environment.
- 2. Domain: Domains provide a trans-disciplinary study of a particular theme or component of **threem**ent.You can choose to folloone of three domains within the B.A. **a**culty Program in Enironment:

Ecological Determinants of Health in Society Economics and the Earth's Vienonment Environment and Deelopment

- 3. Senior Core and Research: In the two senior courses of the core, students will apply the general and specialized approximation the program to the analysis of some speci c, contemporaring and problems.
- To obtain a B.A. Eculty Program in Enironment, students must:

register in a domain online, using Minar,v

satisfy the co- and/or prerequisites for the program (Calculus and a Basic Science course);

pass all courses countedwards the Eculty Program with grade of C or higher,

con rm that their course selection satis es the required components of the MSE core and their chosen domain, and that the complementary courses a approved courses in their chosen domain; and

ENVR 200	(3)	The Global Exironment
ENVR 201	(3)	Society Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Erimonment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	EnvironmentalThought

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 Only 3 credits will be applied to the programating credits will count as elevates.

AEBI 427	(6)	Barbados Interdisciplinary Project
AGRI 519	(6)	Sustainable Dælopment Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in anama

33 credits of complementary courses are chosen asystollo
18 credits of Fundamentals, maximum 3 credits frogname catgory
9 credits from ListA
6 credits from List B

## Fteh

18 credits of Fundamentals (3 credits from eachgoate:

HtaeEn	iv ten		
GEOG 221		(3)	Environment and Health
NRSC 221		(3)	Environment and Health
Htelfi	þ		
GEOG 403		(3)	Global Health and Enironmental Change
GEOG 493		(3)	Health and Evironment inAfrica
PARA 410		(3)	Environment and Infection
HbeeP	b		
ANTH 227		(3)	MedicalAnthropology
NRSC 333		(3)	Pollution and Bioremediation
Eion			
AGEC 200		(3)	Principles of Microeconomics
ECON 208		(3)	MicroeconomicAnalysis and Applications
Nb			
EDKP 292		(3)	Nutrition andWellness
NUTR 200		(3)	Contemporary Nutrition

NUTR 207 (3) Nutrition and Health

## SB

One of the following Statistics courses or eqaient:

Note: Credit given for Statistics courses is subject to certain restrictions. Students should consult the "Coulap'eiGrormation in the "Course Requirements" section for the aculty of Arts.

AEMA 310	(3)	Statistical Methods 1
GEOG 202	(3)	Statistics and Spatialnalysis
MATH 203	(3)	Principles of Statistics 1
SOCI 350	(3)	Statistics in Social Research

## LHA:

9 credits from ListA (maximum 3 credits from anone category):

## HbaaGbjə

ANTH 320	(3)	Social Evolution
GEOG 303	(3)	Health Geograph
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 234	(3)	Population and Society
SOCI 309	(3)	Health and Illness
SOCI 515	(3)	Medicine and Society

## Hol by Chan

\* Note: You may take BREE 217 or GEOG 322, ubnot both.

AGRI 452	(3)	Water Resources in Barbados
BREE 217*	(3)	Hydrology andWater Resources
GEOG 321	(3)	Climatic Environments
GEOG 322*	(3)	Environmental Hydrology
NRSC 510	(3)	Agricultural Micrometeorology

## Aģ

AEBI 425	(3)	Tropical Enegy and Food
AGRI 340	(3)	Principles of EcologicaAgriculture
AGRI 411	(3)	Global Issues on Delopment, Food and Agriculture
AGRI 550	(3)	SustainedTropicalAgriculture

## DidMig

AGEC 242	(3)	ManagemenTheories and Practices
BTEC 502	(3)	Biotechnology Ethics and Society
ECON 440	(3)	Health Economics
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Einonment
URBP 507	(3)	Planning and Infrastructure

## B**igFti**n

* You may take BIOL 308 or ENVB 305, but not both.				
AEBI 210	(3)	Organisms 1		
AEBI 211	(3)	Organisms 2		
BIOL 200	(3)	Molecular Biology		
BIOL 205	(3)	Biology of Organisms		
BIOL 308*	(3)	Ecological Dynamics		

## MCGILL SCHOOL OF ENVIRONMENT

ENVB 430*	(3)	GIS for Natural Resource Management
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
PARA 515	(3)	Water, Health and Sanitation
Sici	е	
GEOG 406	(3)	Human Dimensions of Climate Change
GEOG 514	(3)	Climate Chang&ulnerability andAdaptation
HIST 249	(3)	Health and the Healer Western History
SOCI 307	(3)	Sociology of Globalization
URBP 520	(3)	Globalization: Planning and Change
lm gglfn	<b>d</b> Die	
MIMM 314	(3)	Intermediate Immunology
MIMM 324	(3)	FundamentaVirology
MIMM 413	(3)	Parasitology
PARA 438	(3)	Immunology
PATH 300	(3)	Human Disease
WILD 424	(3)	Parasitology
PpePle		
ANTH 451	(3)	Research in Society and Metopment inAfrica
CANS 407	(3)	Regions of Canada
EDKP 204	(3)	Health Education
GEOG 451	(3)	Research in Society and Weedopment inAfrica
GEOG 498	(3)	Humans inTropical Environments
HIST 335	(3)	Science and Medicine in Canada
HIST 510	(3)	Environmental History of LatirAmerica (Field)
PSYC 533	(3)	International Health Psychology
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 525	(3)	Health Care Systems in CompavetPerspectie
SOCI 550	(3)	Developing Societies
<b>D</b> . <b>+</b> "		
Remja Ju	1 y2012. Edde ia	

## 9.2

#### hsEn iv teDien

This domain is open only to students in the B.Acuity Program in Enironment.

#### Adviser

EieetEa

Mentor

Ms. Kathy Roulet Email: kathyroulet@mcgill.ca Professor Jeannæquette Email: jeannepaquette@mcgill.ca

	Adviser	dviser Mentor			Mentor	
Telephone: 514-398-4306					Telephone: 514-398-4402	
	5 1/1			_		
2.1	Beate/Ar	t(B.A.) - F	<b>g</b> ₽r	<b>∯</b> En	iv tenEientEa	bsEn iz te(64)pl

Understanding Earth's geologic processes ides us with the knowledge to mitigate many of our society's environmental impacts due to resourcover action and waste disposal This knowledge is not analyse enough, as economics often plays a controlling rolewinwhere a disposal to resource a disposal to the source and a disposal to the source

This domain educates students in the fundamentals of economics and Earth softwentceredamentals of economics areviated, as is their application to the effects of economic choices on Earth's imment. Examples of these applications include the econofic to bublic policy toward resource industries and methods of a wate disposal, and the poTm 3m (a(wledge is no 0 1 89.075 709.84Tm 5.237 6)Tj 1) e e1obdge0 0 1 158.783320m 592 Tm (as

ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	EnvironmentalThought

Ce Cþan yCo:eSëRee chPr¢j3þel

Only 3 credits will be applied to the programmeration credits will count as eleves.

Barbados Interdisciplinary Pr.767 .ej 1 0 0 1 121.949 644.5(6Tm ((3))Tj 1 0 0 121.949 644.5AEBI 427Tm (es.

ANTH 339	(3)	EcologicalAnthropology
ANTH 451	(3)	Research in Society and Weeopment inAfrica
BIOL 305	(3)	Animal Diversity
BIOL 308*	(3)	Ecological Dynamics
BIOL 451	(3)	Research in Ecology and Decopment in Africa
BREE 217*	(3)	Hydrology and Water Resources
ECON 305	(3)	Industrial Oganization
ECON 313	(3)	Economic Deelopment 1
ECON 314	(3)	Economic Deelopment 2
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ECON 412	(3)	Topics in Economic Deelopment 1
ENVB 305*	(3)	Population & Community Ecology
ENVB 437	(3)	Assessing Evironmental Impact
EPSC 455	(3)	Sedimentary Geology
EPSC 549	(3)	Hydrogeology
GEOG 302	(3)	Environmental Management 1
GEOG 322*	(3)	Environmental Hydrology
GEOG 404	(3)	Environmental Management 2
GEOG 451*	(3)	Research in Society and Weeopment inAfrica
GEOG 498	(3)	Humans inTropical Environments
HIST 510	(3)	Environmental History of LatinAmerica (Field)
NRSC 451	(3)	Research in Ecology and Depopment InAfrica
SOIL 510	(3)	Environmental Soil Chemistry
URBP 507	(3)	Planning and Infrastructure
URBP 520	(3)	Globalization: Planning and Change
Remja Je2012.	Edae ia	

## 9.3 Eniv teeDe

This domain is open only to students in the B.Acuilty Program in Enironment.

**þDie**n

Adviser	Mentor	
Ms. Kathy Roulet	Prof. Gregory Mikkelson	
Email: kathyroulet@mcgill.ca	Email: gregory.mikkelson@mcgill.ca	
Telephone: 514-398-4306	Telephone: 514-398-4583	

BealatAr ts(B.A.) - F

Pr

ECON 313	(3)	Economic Deelopment 1
ECON 314	(3)	Economic Deelopment 2
GEOG 302	(3)	Environmental Management 1

## Dan Cpan yCor s(21)sl

21 credits of complementary courses are chosen faorious cateories as follows:

## Micien

One of:		
AGEC 200	(3)	Principles of Microeconomics
ECON 208	(3)	MicroeconomicAnalysis andApplications

## Sła

3 credits, one of the following Statistics courses or equient:

Note: Credit given for Statistics courses is subject to certain restrictions. Students should consult the "Course Requirements" section for the Eculty of Arts.

AEMA 310	(3)	Statistical Methods 1
GEOG 202	(3)	Statistics and Spatialnalysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

Adv <b>e</b> De	<b>#</b> Co	₿ <b>D</b>

GEOG 322*(3)Environmental HydrologyNRSC 451(3)Research in Ecology and Deelopment InAfricaNUTR 403(3)Nutrition in SocietyNUTR 501(3)Nutrition in Developing CountriesPARA 410(3)Environment and InfectionWILD 421*(3)Wildlife Conservation	GEOG 305*	(3)	Soils and Enironment
NUTR 403(3)Nutrition in SocietyNUTR 501(3)Nutrition in Developing CountriesPARA 410(3)Environment and Infection	GEOG 322*	(3)	Environmental Hydrology
NUTR 501(3)Nutrition in Developing CountriesPARA 410(3)Environment and Infection	NRSC 451	(3)	Research in Ecology and Deelopment InAfrica
PARA 410 (3) Environment and Infection	NUTR 403	(3)	Nutrition in Society
	NUTR 501	(3)	Nutrition in Developing Countries
WILD 421* (3) Wildlife Conservation	PARA 410	(3)	Environment and Infection
	WILD 421*	(3)	Wildlife Conservation

## SLEGIO

6 credits from:

* Note: You may take GEOG 221 or NRSC 221 utbnot both.				
	AEBI 423	(3)	Sustainable Land Use	
	AEBI 425	(3)	Tropical Enegy and food	
	AGEC 333	(3)	Resource Economics	
	AGRI 452	(3)	Water Resources in Barbados	
	ANTH 451	(3)	Research in Society and Weedopment inAfrica	
	CANS 407	(3)	Regions of Canada	
	ECON 326	(3)	Ecological Economics	
	ECON 347	(3)	Economics of Climate Change	
	ECON 405	(3)	Natural Resource Economics	
	GEOG 201	(3)	Introductory Geo-Information Science	
	GEOG 221	(3)	Environment and Health	
			Human Ecology in Geog9s in Barbados	

## 10 BalefAr teaBée(B.A. & Sc)lópPr ginEn izten

The Interfaculty Program in Enironment is open only to students in the B.A. & Sogrete.

30 credits - chosen from amongstAlreas of focus

## SëRe chPr∳e

Only 3 credits will be applied to the programatre credits will count as eleves.

AGRI 519	(6)	Sustainable Dælopment Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in anama

## SB

One of:

One of:		
AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatialnalysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

## Ae

30 credits from at least three of the follog Areas At least 6 credits must be at the 400eleor higher selected either from these lists or in consultation with the Program Adviser

Ael:	Pþa	Con	ţa	, eE\$Ebj	
* Note:	You may ta <b>k</b> e	BIOL 5	540 or	ENVR 54	0, but not both; you may taakBIOL 308 or ENVB 305, but not both.
BIOL 3	308*		(3)		Ecological Dynamics
BIOL 4	432		(3)		Limnology
BIOL 4	441		(3)		Biological Oceanograph
BIOL 5	540*		(3)		Ecology of Species Masions
ENVB	305*		(3)		Population & Community Ecology
ENVB	410		(3)		Ecosystem Ecology
ENVR	540*		(3)		Ecology of Species Masions
GEOG	G 350		(3)		Ecological Biogeograph
PLNT	460		(3)		Plant Ecology

Ae2:	Bi	jæCe
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Ae8: Fe66be1EbgeCen

vba

ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
		Geograph of theW

AGRI 210	(3)	Agro-Ecological History
AGRI 435	(3)	Soil andWater Quality Management
AGRI 452	(3)	Water Resources in Barbados
ENVB 437	(3)	Assessing Evironmental Impact
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
NRSC 333	(3)	Pollution and Bioremediation
SOIL 335	(3)	Soil Ecology and Management
WILD 401	(4)	Fisheries and Wildlife Management
WILD 415*	(2)	Conservation Law
WOOD 441	(3)	Integrated Forest Management

con rm that their course selection satis es the required components of the MSE core and their chosen domain, and that the complementary courses a approved courses in their chosen domain; and

ful I all f aculty requirements as speci ed by the utility in which the are registered: for the B.Sc.(Ag.ErSc.), refer to Programs, Couses and University Regulations> Faculties & Shools> Faculty of Agricultural and Environmental Sciences Undergraduate> : Faculty Information and Relations for the B.Sc., sePrograms, Couses and University Regulations> Faculties & Shools> Faculty of Science: Faculty Degree Requirements This includes meeting the minimum credit requirement as speci ed in their letter of admission.

# 11.1 Bial baCe vabDen

This domain is open only to students in the B.Sc. (Ags San) Major Environment or B.Sc. Major Environment program.

Professor Graham Bell
Email: graham.bell@mcgill.ca
Telephone: 514-398-6485

11.1.1	BeaktiSki(AbgEn		iv b6a)∌(B.Sq(AgEn	v.Sc)) oBa	6666 (B.Sc) - Mje
	Eniv en Biol	<b>j∉Ce</b>	vb(63)pl		

This domain (63 credits including core) is open only to students in the B.Sc. (#SpcBrMajor in Exironment or B.Sc. Major in Evironment program.

This domain links the academic study of biological distinguishing with the applied eld of consention biology. The study of biological distinguishing is at the intersection of relution with ecology and genetics, combining the subdiscipline conductionary ecology evolutionary genetics, and ecological genetics. It has tow main branches: the creation of relisity and the maintenance of relisity. Both processes are general by a general mechanism of selection acting over different scales of space and tinfibilis gives rise to a distinct set of principles and generalizations the gubrate rates of diversity and levels of diversity as well as the advance or rarity of different species. Consention biology constitutes the application of these principles in the relevant social and economic context of management of natural systems, with the object of principle the retinction of rare species and maintaining the diversity of communities as the impact of industrialization and population of natural systems has become moverse consent in has emged as an important area of practical endear.

#### Sg gteFri ts Ye(U)Co d

For suggestions on courses to take your rst year (U1), you can consult the "MSE Student Handbook 2012-204128 base on the MSE website (http://www.mcgill.ca/mse), or contact Ms. Kayt Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

#### PrefRiep

Note: Students are required to the aximum of 30 credits at the 200 eleand a minimum of 12 credits at the 400 eleor higher in this program. This includes core and required courses.

Location NoteWhen planning their schedule anglissering for courses, students should five where each course is ferfed because courses for this program are taught at both McGill's Dontown campus and at the Macdonald campus in Sainte-Anne-deviberle

#### Ce RieCo e(18)d

Location Note: Core required courses are taught at both McGilliss (Down campus and at the Macdonald campus in Sainte-Anne-dev (BeelYeu should register in Section 001 of an ENVR course that you planeto that be detected by the Macdonald campus, and in Section 051 of an ENVR course that you planeto that the Macdonald campus.

ENVR 200	(3)	The Global Emironment
ENVR 201	(3)	Society Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Erironment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	EnvironmentalThought

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Ce	Cpan	yca	e Seke	Cn≏rye,3ya

Only 3 credits will be applied to the programatre credits will count as elevels.

	(6)	Sustainable Delegement Plana
AGRI 519	(6)	Sustainable Deelopment Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in mana
Dian C†an	уС <b>с е</b> (42	þ
42 credits of comp	lementary courses a	are selected awsollo
9 credits - basic co	ourses in the Biologi	cal Principles of Bity Systematics, and Consetion
3 credits - Ecology		
3 credits - Statistic	S	
9 credits - Interaice	between Science, F	Pyliand Management
3 credits - Field Co	ourses	
6 credits - General	Scienti c Principles	
3 credits - Social S	cience	
6 credits - Oganism	ns and Driersity	
B <b>∦P¢#</b> Die	<b>ijSiji</b> €e	vba
9 credits are chose	en from basic course	es in the biological principlezeośidj; systematics, and consetion as follows:
One of:		
AEBI 212	(3)	Evolution and Phologeny
BIOL 304	(3)	Evolution
One of:		
AEBI 211	(3)	Organisms 2
BIOL 305	(3)	Animal Diversity
BIOL 303	(3)	Anima Diversity
One of:		
BIOL 465	(3)	Conservation Biology
WILD 421	(3)	Wildlife Conservation
Eg		
One of:		
BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology
Sta		
One of:		
AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry
	(3)	Diometry
0	<b>-</b>	
Sie , Pb y, e	-	een science, notiond management as follo:
A CLEMITS ALE COOSE	u irom in <b>ære</b> hetwe	en science, pouland management as IONS'

9 credits are chosen from intacte between science, pylicand management as follis:

\* Note: You may take AGEC 200 or ECON 208, ub not both.

PLNT 460	(3)	Plant Ecology
WILD 311	(3)	Ethology
WOOD 420	(3)	Environmental Issues:difestry

# SLEGie

One of:

\* Note: If WILD 415 is tak

ANSC 330	(3)	Fundamentals of Nutrition
NUTR 307*	(3)	Human Nutrition

## Hahla

12 credits chosen from Human Health, maximum of 3 credits from the category:

lm bg₽	ta ta	
Reip Atg2012	. Statte ins	
MICR 341	(3)	Mechanisms of Athogenicity
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
PARA 438	(3)	Immunology
PATH 300	(3)	Human Disease
Remja Ag2012	. Edae ia	
lfi blòe		
ANSC 400	(3)	Eukaryotic Cells an∛iruses
MIMM 324	(3)	Fundamenta Wirology
MIMM 413	(3)	Parasitology
WILD 424	(3)	Parasitology
Nb		
NUTR 403	(3)	Nutrition in Society
NUTR 512	(3)	Herbs, Foods and Plytochemicals
DgeHen		
ANSC 424	(3)	Metabolic Endocrinology
PHAR 300	(3)	DrugAction
Phy		
ANSC 323	(3)	Mammalian Plasiology
PHGY 209	(3)	Mammalian Plasiology 1

## NbEn izten

6 credits chosen from the Natural Mironment, maximum of 3 credits from yaone catgory:

# Høl bysChen

* Note: You may	take BREE	217 or GEOG	322ubnot both.
-----------------	-----------	-------------	----------------

AGRI 452	(3)	Water Resources in Barbados
BREE 217*	(3)	Hydrology andWater Resources
GEOG 321	(3)	Climatic Environments
	(3)	Environmental Hydrology

Te bopMa	gten		
BREE 322	(3)	OrganicWaste Management	
CHEE 230	(3)	EnvironmentaAspects ofTechnology	
ENVB 437	(3)	Assessing Evironmental Impact	
GEOG 302	(3)	Environmental Management 1	
URBP 507	(3)	Planning and Infrastructure	
PeMa get	n		
* Note: You ma	ay take BIOL 350 or ENT	) 350, but not both.	
BIOL 350*	(3)	Insect Biology and Control	
ENTO 350*	(3)	Insect Biology and Control	
ENTO 352	(3)	Biocontrol of Pest Insects	
PbCto	baMa gan		
BREE 518	(3)	Bio-Treatment ofWastes	
NRSC 333	(3)	Pollution and Bioremediation	
Eg			
* Note: You ma	ay take ENVR 540 or BIC	L 540, utt not both.	
BIOL 432	(3)	Limnology	
BIOL 465	(3)	Conservation Biology	
BIOL 540*	(3)	Ecology of Species Irasions	
BIOL 553	(3)	Neotropical Exironments	
ENVB 410	(3)	Ecosystem Ecology	
ENVR 540*	(3)	Ecology of Species Inasions	
MICR 331	(3)	Microbial Ecology	
PLNT 304	(3)	Biology of Fungi	
PLNT 460	(3)	Plant Ecology	

11.2.2 Berbtőbé(AbgEn Eniz ten EbgDteiHba-P iv b66)a(B.Sq(AgEn t≬63)al

v.Sc)) dBa bl

baSa(B.Sc)-Mja

The Population concentration in this domain is open only to students in the B.Scv( \$g, EMajor Exironment or B.Sc. Major En

#### Profikion

Note: Students are required to the maximum of 31 credits at the 200elleand a minimum of 12 credits at the 400elleor higher in this program. This includes core and required courses.

Location NoteWhen planning your schedule anglistering for courses, you shouldnify where each course is ferfed because courses for this program are taught at both McGill's Dontown campus and at the Macdonald campus in Sainte-Anne-devBeelle

#### Ce RieCo e(18)el

Can

PARA 410

Сө

Location Note: Core required courses for this program are taught at both McGillisto a campus and at the Macdonald campus in Sainte-Anne-devibelle You should register in Section 001 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Exironment
ENVR 201	(3)	Society Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Erimonment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	EnvironmentalThought

chPr ∯(3)≱l

Environment and Infection

Only 3 credits will be applied to the programing credits will count as eleves.

e SëRe

Dian	Ri¢Co	e(3 #		
ENVR 451		(6)	Research in <b>&amp;</b> hama	
ENVR 401		(3)	Environmental Research	
AGRI	519	(6)	Sustainable Dælopment Plans	

Dian	Clan	yCo	e(39 🖬	

(3)

vCo

39 credits of complementary courses are selected as/sollo
21 credits - Fundamentals, maximum of 3 credits from eachargete
6 credits - ListA categories, maximum of 3 credits from aone category
12 credits - List B categories, maximum of 3 credits from aone category

#### Fteh

21 credits of fundamentals, 3 credits from eachgoarte

HtatEn	iv ten		
GEOG 221		(3)	Environment and Health
NRSC 221		(3)	Environment and Health

#### Hbe Gbp

Health Geograph

ANSC 312	(3)	Animal Health and Disease	
PHAR 303	(3)	Principles of Toxicology	
Bg			
BIOL 200	(3)	Molecular Biology	
BIOL 201	(3)	Cell Biology and Metabolism	
LSCI 211	(3)	Biochemistry 1	

# Sta

One of the following Statistics courses or equient: Note: Credit gr

## NRSC 510

#### (3) Agricultural Micrometeorology

# DiaMiga6aCig

\* Note: You may take AGEC 200 or ECON 208, ub not both.

(3)	Principles of Microeconomics
(3)	ManagemenTheories and Practices
(3)	Biotechnology Ethics and Society
(3)	MicroeconomicAnalysis and Applications
(3)	Society and Change
(3)	Environmental Management 1
(3)	Environmental Management 2
(3)	Biomedical Ethics
(3)	Globalization: Planning and Change
У	
(3)	Agro-Ecological History
	<ul> <li>(3)</li> </ul>

е

	(-)	
ANTH 212	(3)	Anthropology of Deelopment

Global Issues on Delopment, F

For suggestions on courses toe take your rst year (U1), you can consult the "MSE Student Handbook 2012-20/tailate on the MSE website at http://www

lpn			
ENVB 437	(3)	Assessing Evironmental Impact	
MIME 308	(3)	Social Impact offechnology	
Mģ			
BIOL 309	(3)	Mathematical Models in Biology	
ENVB 506	(3)	Quantitative Methods: Ecology	
GIS Tela			
ENVB 430	(3)	GIS for Natural Resource Management	
GEOG 201	(3)	Introductory Geo-Information Science	
BeEn iz te6en			
One of:			
BREE 217	(3)	Hydrology andWater Resources	
CIVE 323	(3)	Hydrology andWater Resources	
ENVB 210	(3)	The Biophysical Environment	
GEOG 305	(3)	Soils and Environment	
GEOG 322	(3)	Environmental Hydrology	
GEOG 350	(3)	Ecological Biogeograph	

#### Sła

6 credits of Statistics are selected from one of thevialing two options.

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Ottapps in Robyrmation in the "Course Requirements" section for the Fully of Science. Seral Statistics courses verlap (especially with MAH 324) and cannot be take together These rules do not apply to B.Sc. (Ag. ErSc.) students.

Ор		
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
Oþ2		
One of:		
AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry
And one of:		
AEMA 411	(3)	Experimental Designs 01
CIVE 555	(3)	Environmental DataAnalysis
GEOG 351	(3)	Quantitative Methods
SOCI 461	(3)	Quantitative DataAnalysis

	Adviser		Mentor		
Telephone: 514-398-4306		Telephone: 514-398-8749			
1.4.1	BeabtSe(AbgEn Eniv benFdPr	<b>t#</b> En	iz b66)a(B.Sα(AgEn iz te(63)bl	v.S¢) dBa	kaGe≬B.Sc)-Mje
٦	This domain (63 credits	s including core) is	open only to students in the B.Sc.	æjnMajor in En≀ironment	or B.Sc. in Enironment program.

The b

Сө	Cpan	yCo: e SiaRe	n chPr∯(3)pl
Only	3 credits will b	be applied to the p	rogramitr <b>a</b> credits will count as ele <b>ve</b> is.
AGF	RI 519	(6)	Sustainable Deelopment Plans
ENV	/R 401	(3)	Environmental Research
ENV	/R 451	(6)	Research in anama
Dian	RiệCo	e(9 )	
AEB	l 210	(3)	Organisms 1
AGF	RI 210	(3)	Agro-Ecological History
PLN	T 300	(3)	Cropping Systems

Dan Cþan	уСо	e(33 )d
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33 credits of complementary courses selected asvissilo

15 credits - Basic Sciences

12 credits Applied Sciences

6 credits - Social Sciences/Humanities

## Bia6ia

15 credits of Basic Sciences selected as vioalo

One of the following Statistics courses or equient:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Eddaps' in Correction in the "Course Requirements" section for the fully of Science.

AEMA 310	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1
One of:		
AGRI 340	(3)	Principles of Ecological griculture
ANSC 250	(3)	Principles of Animal Science
One of:		
BIOL 202	(3)	Basic Genetics
LSCI 204	(3)	Genetics
One of:		
ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Evironment
One of:		
BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

# A þaGien

12 credits of Applied Sciences from the follooing:

\* Note: You may take BREE 217 or GEOG 322, ubnot both; you may take FDSC 200 or NUTR 207, ubnot both.

AGRI 411	(3)	Global Issues on Delopment, Боd and Agriculture
AGRI 435	(3)	Soil andWater Quality Management
AGRI 550	(3)	Sustained Tropical Agriculture
BIOL 465	(3)	Conservation Biology
BIOL 553	(3)	Neotropical Environments
BREE 217*	(3)	Hydrology andWater Resources
BREE 322	(3)	OrganicWaste Management
BREE 518	(3)	Bio-Treatment ofWastes
ENVB 437	(3)	Assessing Evironmental Impact
FDSC 200*	(3)	Introduction to Food Science
FDSC 535	(3)	Food Biotechnology
GEOG 302	(3)	Environmental Management 1
GEOG 322*	(3)	Environmental Hydrology
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
NUTR 207*	(3)	Nutrition and Health
NUTR 403	(3)	Nutrition in Society
PARA 410	(3)	Environment and Infection
PHAR 303	(3)	Principles ofToxicology
PLNT 434	(3)	Weed Biology and Control
SOIL 315	(3)	Soil Fertility and Fertilizer Use
SOIL 445	(3)	Agroenvironmental Fertilizer Use
SOIL 510	(3)	Environmental Soil Chemistry
	(4)	Fisheries and Wildlife Management

GEOG 404	(3)	Environmental Management 2
GEOG 410	(3)	Geograph of Underdeelopment: Current Problems
GEOG 498	(3)	Humans inTropical Environments
GEOG 510	(3)	Humid Tropical Environments
SOCI 254	(3)	Development and Underdelopment
SOCI 565	(3)	Social Change in mana
WILD 415**	(2)	Conservation Law

This domain is open only to students in the B.Sc. (Agsan) Major Environment or B.Sc. Major Environment program.

1	Adviser		1	Ventor		
	Ms. Kathy Roulet Email: kathyroulet@mcgill.ca Telephone: 514-398-4306			Professor Ian Strachan Email: ian.strachan@mcgill.ca Telephone: 514-398-7935		
11.5.1	Bakt6Se(AbgEn Eniv tenLe664Pr	seEn	iv b6)a)(B.Sq(AgEn iv b60g)	e(63 )	v.S¢) dBa	baGa≬B.S¢)-Mja

This domain (63 credits including core) is open only to students in the B.Sc. (#SpcBrMajor in Environment or B.Sc. Major in Evironment programs.

The thin soil layer on the planet's land access controls the vital inputs of the nutrients, and energy to terrestrial and freshaker aquatic ecosystems. Widespread occurrences around the globe of deserti cation, soil erosion, deforestation, and largescharer water reservirs indicate that this dynamic system is under increasing pressure from population thread changes in climate and land uses. Productioe of the vital response (water vapour CO2, and methane) is controlled by complex occurrences operating at the land access involving climate change feedbacks that need to be fully understowed, gi current global varming trends.

The program introduces students to the interactive interactine interactine interactine int

Sg g

Ce Cpen	yCo: e SieRei	chPr∯(3)pl	
Only 3 credits wil	Il be applied to the pro	granațre credits will count as eleveis.	
AGRI 519	(6)	Sustainable Deelopment Plans	
ENVR 401	(3)	Environmental Research	
ENVR 451	(6)	Research in anama	
DiaRiqCo	e(3 )		
GEOG 203	(3)	Environmental Systems	

#### Dian C‡an yCro e(39)‡l

39 credits of complementary courses are selected as/sollo

9 credits - 3 credits from each captery of Statistics, GIS and Remote SensTeghniques/Weather and Climate

9 credits of fundamental land sauce processes

3 credits of evironment and resource management

3 credits of eld course

3 credits of social science

12 credits total of adanced studies chosen from LastParticular Environments and List B: Suarce Processes

#### SB

One of the following Statistics courses or equient:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Eddaps' an Ovrmation in the "Course Requirements" section for the Eulty of Science.

(3)	Statistical Methods 1
(3)	Statistics and Spatialnalysis
(3)	Principles of Statistics 1
Te kaj	
(3)	GIS for Natural Resource Management
(3)	Introductory Geo-Information Science
(3)	Principles of Remote Sensing
(3)	OceansWeather and Climate
(3)	Meteorology
8	
and saucte proces	ses chosen as <b>føls</b> o
(3)	Climatic Environments
	(3) (3) <b>Te lq</b> (3) (3) (3) (3) (3) (3) <b>e</b> and saute proces

And/or one of:

GEOG 272	(3)	Earth's Changing Suarce
SOIL 300	(3)	Geosystems

And/or one of:

(3)	EcologicalAnthropology
(3)	Economics of the Enironment
(3)	Ecological Economics
(3)	Natural Resource Economics
(3)	Environment and Health
(3)	Geograph of Development
(3)	Humans inTropical Environments
(3)	Resources, People and Wear
(3)	Environment and Health
(3)	Social Change in anama
(3)	Globalization: Planning and Change
	<ul> <li>(3)</li> </ul>

12 credits total of adanced studies chosen from the falling two lists:

# LtsA-PatEn ivten

3-9 credits of adarced study of articular Environments:

BIOL 432*	(3)	Limnology
ENVB 315*	(3)	Science of InlandVaters
ENVB 410	(3)	Ecosystem Ecology
GEOG 350	(3)	Ecological Biogeograph
GEOG 372	(3)	RunningWater Environments
GEOG 470	(3)	Wetlands
GEOG 536	(3)	Geocryology
GEOG 550	(3)	Historical EcologyTechniques
PLNT 358	(3)	Flowering Plant Diversity
PLNT 460	(3)	Plant Ecology

#### LbB-S6Pr

3-9 credits adarnced study of Suarce Processes:

0

ATOC 315	(3)	Thermodynamics and Comection
BREE 509	(3)	Hydrologic Systems and Modelling
EPSC 549	(3)	Hydrogeology
EPSC 580	(3)	Aqueous Geochemistry
GEOG 501	(3)	Modelling Environmental Systems
GEOG 505	(3)	Global Biogeochemistry
GEOG 522	(3)	Advanced Environmental Hydrology
GEOG 537	(3)	Advanced Fluvial Geomorphology
NRSC 333	(3)	Pollution and Bioremediation
SOIL 331	(3)	Soil Physics
SOIL 510	(3)	Environmental Soil Chemistry

Re by &Res eMa gebbien

ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Erimonment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	EnvironmentalThought

Сө	Cpan	уСо	e SeRe	chPr∯(3)pl
Only	3 credits will be a	applied to	o the prograi	națre credits will count as elevetis.
AGR	l 519	(6)		Sustainable Dælopment Plans
ENV	R 401	(3)		Environmental Research
ENV	R 451	(6)		Research in anama

Dan Cþan yCno e(42)≱l

42 credits of complementary courses are selected as/sollo

9 credits - Basic Principles of Ecosystem Processes avedsDy

6 credits - 3 credits from each ogate of Statistics and GIS

6 credits Advanced Ecosystem Components

6 credits Advanced Ecological Processes

6 credits - Social Processes

9 credits - Ecosystem Components or Management of Ecosystems

## BiePþaíE¢p¶r

ENVB 430	(3)	GIS for Natural Resource Management
GEOG 201	(3)	Introductory Geo-Information Science

# AdvaEspCap

6 credits of adarnced ecosystem components selected from:

BIOL 553	(3)	Neotropical Environments
GEOG 372	(3)	RunningWater Environments
PLNT 358	(3)	Flowering Plant Diversity
SOIL 326	(3)	Soils in a Changing Exironment
WILD 307	(3)	Natural History of/ertebrates

AdveEbPr

0 6 credits of adamced ecological processes selected from:

\* Note: You may take BIOL 432 or ENVB 315, but not both; you can take BREE 217 or GEOG 322 ubnot both.

BIOL 432*	(3)	Limnology
BIOL 465	(3)	Conservation Biology
BREE 217*	(3)	Hydrology andWater Resources
ENVB 315*	(3)	Science of InlandVaters
ENVB 410	(3)	Ecosystem Ecology
GEOG 322*	(3)	Environmental Hydrology
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
PLNT 460	(3)	Plant Ecology

#### SbPr 0

6 credits of social processes selected asvistlo

\* If WILD 415 is taken, 1 additional credit of complementary courses must kee tak

\*\* Note: You may take AGEC 333 and ECON 405µbnot both.

AGEC 242	(3)	ManagemenTheories and Practices
AGEC 333**	(3)	Resource Economics
ANTH 339	(3)	EcologicalAnthropology
CANS 407	(3)	Regions of Canada
ECON 405**	(3)	Natural Resource Economics
GEOG 382	(3)	Principles Earth Citizenship
GEOG 498	(3)	Humans inTropical Environments
RELG 270	(3)	Religious Ethics and the Einonment
SOCI 565	(3)	Social Change in Anama
URBP 520	(3)	Globalization: Planning and Change
WILD 415*	(2)	Conservation Law

## E¢pC¢pdMa

gttíEt≱n

9 credits of ecosystem components or management of ecosystems selected from:

AGRI 435	(3)	Soil andWater Quality Management
AGRI 452	(3)	Water Resources in Barbados
AGRI 550	(3)	Sustained Tropical Agriculture
ENVB 437	(3)	Assessing Evironmental Impact
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
	(3)	Cropping Systems

Location Note When planning your schedule and isserting for courses, you should hify where each course is of

* Note: AEMA 310 or equiva	alent	
AEMA 202	(3)	Intermediate Calculus
AEMA 310*	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3
F&Co e		
3 credits selected from the	folwing courses	or an equailentAquatic Field course:
AGRI 452	(3)	Water Resources in Barbados
BIOL 331	(3)	Ecology/Behaiour Field Course
GEOG 495	(3)	Field Studies - Phisical Geograph
SŁSładP b	у	
One of:		
AGEC 333	(3)	Resource Economics
ANTH 339	(3)	EcologicalAnthropology
ANTH 418	(3)	Environment and Deelopment
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
GEOG 404	(3)	Environmental Management 2
GEOG 498	(3)	Humans inTropical Environments
POLI 345	(3)	International Oganizations
POLI 466	(3)	Public Polig Analysis
SOCI 565	(3)	Social Change in anama
URBP 520	(3)	Globalization: Planning and Change

18 credits chosen in total from Lisstand List B as follows:

#### LHA

9-12 credits chosen from:

\* Note: you may take BIOL 540 or ENVR 540, but not both; you may take ENVB 210 or GEOG 305, ub not both; you may take BIOL 432 or ENVB 315, but not both.

AGRI 435	(3)	Soil andWater Quality Management
BIOL 342	(3)	Marine Biology
BIOL 432*	(3)	Limnology
BIOL 441	(3)	Biological Oceanograph
BIOL 465	(3)	Conservation Biology
BIOL 540*	(3)	Ecology of Species Inasions
BIOL 553	(3)	Neotropical Environments
BIOL 570	(3)	Advanced Seminar in Edution
ENTO 535	(3)	Aquatic Entomology
ENVB 210*	(3)	The Biophysical Environment
ENVB 315*	(3)	Science of InlandVaters

Ecology of Species lasions

(3)

Location NoteWhen planning your schedule angistering for courses, you should rify where each course is felfed because courses for this program are taught at both McGill's Dontown campus and at the Macdonald campus in Sainte-Anne-dev Beelle

#### Ce RieCo e(18)el

Се

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e SëRe

Location Note: Core required courses for this program are taught at both McGillitscolo campus and at the Macdonald campus in Sainte-Anne-devibelle You should register in Section 001 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Emironment
ENVR 201	(3)	Society Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Erronment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	EnvironmentalThought

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Note: Only 3 credits will be applied to the programmer credits will count as eleves.				
AGRI 519	(6)	Sustainable Dælopment Plans		
ENVR 401	(3)	Environmental Research		
ENVR 451	(6)	Research in anama		
Dian RiaÇo:	e(12)⊯			
ATOC 214	(3)	Introduction: Physics of the Atmosphere		
ATOC 215	(3)	Oceans,Weather and Climate		
ATOC 315	(3)	Thermodynamics and Coection		
GEOG 372	(3)	RunningWater Environments		
Dian C(an	yC⊡ e(30)≱i			
30 credits of complementary courses are selected awsollo				

6 credits - Hydrology/Water Resources, Population, Community and Ecology

3 credits - Statistics or Calculus

3 credits - Field course

12 credits chosen from LiAt

6 credits chosen from List B

Hçal ĝgV	ŧRe	Ģ	P‡¢Con	ţÆţg
6 credits sele	ected as fo <b>ws</b> :			
One of:				
BREE 217		(3)		Hydrology andWater Resources
GEOG 322		(3)		Environmental Hydrology
And one of:				
And one of.				
BIOL 308		(3)		Ecological Dynamics
ENVB 305		(3)		Population & Community Ecology

## Stacta

One of:

\* Note: AEMA 310 or equivalent.

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Output sinton in the "Course Requirements" section for the fully of Science.

AEMA 202	(3)	Intermediate Calculus	
AEMA 310*	(3)	Statistical Methods 1	
MATH 203	(3)	Principles of Statistics 1	
MATH 222	(3)	Calculus 3	

#### FéCo

3 credits selected from the folloing courses or an equailentAquatic Field course:

AGRI 452	(3)	Water Resources in Barbados
GEOG 495	(3)	Field Studies - Physical Geograph

## LHA:

12 credits chosen from:

8

AGRI 435	(3)	Soil andWater Quality Management
ATOC 309	(3)	Weather Radars and Satellites
ATOC 568	(3)	Ocean Physics
BREE 416	(3)	Engineering for Land Deelopment
CIVE 323	(3)	Hydrology andWater Resources
EPSC 549	(3)	Hydrogeology
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing
GEOG 537	(3)	Advanced Fluvial Geomorphology
NRSC 510	(3)	Agricultural Micrometeorology
URBP 520	(3)	Globalization: Planning and Change

#### And/or one of:

AEMA 305	(3)	Differential Equations
MATH 315	(3)	Ordinary Differential Equations

## And/or one of:

BREE 506	(3)	Advances in Drainage Management
BREE 509	(3)	Hydrologic Systems and Modelling
GEOG 522	(3)	Advanced Enironmental Hydrology

# And/or one of:

ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Enironment

And/or one of:		
ENVB 430	(3)	GIS for Natural Resource Management
GEOG 306	(3)	Raster Geo-Information Science

## LHB:

6 credits chosen from:

* Note: You can take BIOL 432 or ENVB 315, but not both.		
BIOL 342	(3)	Marine Biology
BIOL 432*	(3)	Limnology
BIOL 441	(3)	Biological Oceanograph
BIOL 465	(3)	Conservation Biology
BIOL 553	(3)	Neotropical Emironments
ENVB 315*	(3)	Science of InlandVaters
GEOG 350	(3)	Ecological Biogeograph
GEOG 505	(3)	Global Biogeochemistry
WILD 401	(4)	Fisheries and Wildlife Management

# 12 MjörEn iztenB.Sc

In addition to the domains/ailable to students in the Major program in either taculfty of Science or thealculty of Agricultural and Environmental Sciences, Major in Environment - B.Sc.students in the faculty of Science can choose from one of the tiviting two domains:

Atmospheric Environment and Air Quality, or

Earth Sciences and Economics.

Refer to section 11 Major in Environment B.Sc. (A m.Sc.) and B.S for the general guidelines and re

SgigteFri tsY

One of:

GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
GEOG 498	(3)	Humans inTropical Environments
POLI 466	(3)	Public Polig Analysis
RELG 270	(3)	Religious Ethics and the Einonment

# 12.2 Ea tSiedEidDian

This domain is open only to students in the B.Sc. MajorirEnment program in thearculty of Science.

dviser	Mentor
Ms. Kathy Roulet	Professor Jeannæ Puette
Email: kathyroulet@mcgill.ca	Email: jeannepaquette@mcgill.ca
Telephone: 514-398-4306	Telephone: 514-398-4402

12.2.1 BaktiSte(B.Sc)-MjeEn iv ten Ea tStetEte(66)sl

The resources necessary for human society are e

AGRI 519	(6)	Sustainable Dælopment Plans
ENVR 401	(3)	Environmental Research

ECON 313	(3)	Economic Deelopment 1
ECON 314	(3)	Economic Deelopment 2
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ECON 412	(3)	Topics in Economic Deelopment 1
EPSC 312	(3)	Spectroscop of Minerals
EPSC 331	(3)	Field School 2
EPSC 341	(3)	Field School 3
EPSC 425	(3)	Sediments to Sequences
EPSC 435	(3)	Applied Geophysics
EPSC 452	(3)	Mineral Deposits
EPSC 519	(3)	Isotope Geology
EPSC 542	(3)	Chemical Oceanograph
EPSC 549	(3)	Hydrogeology
EPSC 580	(3)	Aqueous Geochemistry
EPSC 590	(3)	Applied Geochemistry Seminar
GEOG 302	(3)	Environmental Management 1
GEOG 322	(3)	Environmental Hydrology
SOIL 510	(3)	Environmental Soil Chemistry

# 13 Hou sPrejEn izen

## Adviser

Ms. Kathy Roulet, MSE ProgramAdviser Email: kathyroulet@mcgill.ca Telephone: 514-398-4306

This Program is open only to students in the B.Sc. Major wir forment, B.Sc. (Ag. En Sc.) Major in Environment, B.A. faculty Program in Environment,

5. Arts (B.A.) students in the Honours Fironment program must also complete a minor concentration in an academic unit other than the McGill School of Environment. Please refer to the dulty of Arts regulations on Honours programs found und erclifty Degree Requirements", "About Program

5. B.A. & Sc. students must complete at least 30 credits in atbuet of of Arts and at least 30 in the Eulty of Science as part of their Honours program and their Minor concentration or Minor programs. See Noise of Programs Offered" and "Minor Concentrations or Minors."

Students in the B.A. & Sc. Honours programs complete the oxourls \$54 credits) for the Interfculty Program in Enironment as well as the Honours required courses (6 credits).

At the completion of your Honours research, you **appected** to present your results at an Honours Symposium, and are required to suby main a report to the MSE Program Adviser.

#### Hoo sRieCo e(6)sl

Note:You take either ENVR 495D1 and ENVR 495D2 (6 crediterconsecutie terms) or ENVR 495N1 and ENVR 495N2 (6 crediteron consecutie terms).

ENVR 495D1	(3)	Honours Research
ENVR 495D2	(3)	Honours Research
ENVR 495N1	(3)	Honours Research
ENVR 495N2	(3)	Honours Research

13.4	BeakeSe(AbgEn	iv b66)∎(B.Sα(AgEn	v.So)) - Ho	sEn iv te(69
	ίd.			

This program is open only to students in the B.Sc. (AgScon) Major Environment. To be eligible for Honours, students must satisfy the requirements set by their B.Sc. (Ag.En.Sc.) degree.

In addition, students must satisfy the fallog:

1. Students apply for the Honours program in March of their U2 Searthe Programadviser for details.

2. Applicants must have a minimum Program GAP(GPA of all required and complementary courses for the programvind ment taken at McGill) of 3.3 to enter the Honours program.

3. Students must earn a B grade (3.0) or higher for the Honours Research courses (ENVR 496 and ENVR 497).

4. Students are required to a where minimum overall CGPA of 3.0 at graduation, and a minimum Program AGP3.3 to obtain Honours.

Students in the B.Sc.(Ag.ESc.) Honours program complete the core and domain courses (60 to 63 credits) according to their chosen domain as well as the 6 credits of required Honours courses.

At the completion of your Honours research, you appected to present your results at an Honours Symposium, and are required to subymood and report to the MSE Programed viser.

Ho	s Ri¢Co	e(6)bl	
ENVR	496	(3)	Honours ResearchaPt 1
ENVR	497	(3)	Honours Researchal 2

14 JtHou sCpEn izen

#### Adviser

Ms. Kathy Roulet, MSE ProgramAdviser Email: kathyroulet@mcgill.ca Telephone: 514-398-4306

This program is open only to students in the B.acuffty Program in Enironment.

The Joint Honours Component Emonment ofers students the opportunity to undertarkyearlong, interdisciplinary research project in their nal year in close association with a profession of search primes accellent preparation for graduate studies, is not required for such studies. If, for some reason, students cannot complete the Joint Honours requirements at he for such studies with a Minor Concentration.

GEOG 202

(3)

9 credits - must be tak in an area of focus chosen by the student with the vap port of the Program Adviser. At least 6 credits must be tak at the 400 le

GEOG 508	(3)	Resources, People and WRog
GEOG 530	(3)	Global Land and Vater Resources
GEOG 551	(3)	Environmental Decisions
MGPO 440	(3)	Strategies for Sustainability
NRSC 221	(3)	Environment and Health
NRSC 540	(3)	Socio-Cultural Issues Water
PHIL 230	(3)	Introduction to Moral Philosoph1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 334	(3)	EthicalTheory
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
POLI 211	(3)	Comparative Government and Politics
POLI 212	(3)	Government and Politics - DelopedWorld
POLI 227	(3)	DevelopingAreas/Introduction
POLI 345	(3)	International Oganizations
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 466	(3)	Public Polig Analysis
PSYC 215	(3)	Social Psychology
RELG 270	(3)	Religious Ethics and the Einonment
RELG 340	(3)	Religion and the Sciences
RELG 370	(3)	Religion and Human Rights
RELG 376	(3)	Religious Ethics
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdelopment
SOCI 386	(3)	Contemporary Social Maements
URBP 201	(3)	Planning the 21st Century City
URBP 506	(3)	Environmental Polig and Planning
URBP 530	(3)	Urban Environmental Planning
WILD 415*	(2)	Conservation Law

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\* Note: You may take LSCI 230 or MIMM 211, bit not both; you may takeBIOL 432 or ENVB 315, bit not both; you may takeBNVB 430 or GEOG 201, but not both; you may takeBREE 217 or GEOG 322 ubnot both.

AGRI 340	(3)	Principles of EcologicaAgriculture
AGRI 435	(3)	Soil andWater Quality Management
ANSC 326	(3)	Fundamentals of Population Genetics
ANTH 311	(3)	Primate Behvaiour and Ecology
ARCH 375	(2)	Landscape
ARCH 377	(3)	Enegy, Environment and Buildings
ARCH 378	(3)	Site Usage
ATOC 215	(3)	OceansWeather and Climate

BIOL 240	(3)	Monteræjian Flora
BIOL 305	(3)	Animal Diversity
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Marine Biology
BIOL 418	(3)	Freshvater Invertebrate Ecology
BIOL 432*	(3)	Limnology
BIOL 436	(3)	Evolution and Society
BIOL 465	(3)	Conservation Biology
BREE 217*	(3)	Hydrology and Water Resources
BREE 322	(3)	OrganicWaste Management
BREE 518	(3)	Bio-Treatment of Wastes
BTEC 502	(3)	Biotechnology Ethics and Society
CHEE 230	(3)	EnvironmentaAspects ofTechnology
CHEM 212	(4)	Introductory Oganic Chemistry 1
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 462	(3)	Green Chemistry
CIVE 225	(4)	Environmental Engineering
CIVE 323	(3)	Hydrology and Vater Resources
CIVE 550	(3)	Water Resources Management
ENTO 340	(3)	Field Entomology
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
ENVB 305	(3)	Population & Community Ecology
ENVB 315*	(3)	Science of InlandVaters
ENVB 410	(3)	Ecosystem Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 430*	(3)	GIS for Natural Resource Management
ENVR 200	(3)	The Global Emironment
ENVR 202	(3)	The Evolving Earth
EPSC 201	(3)	Understanding Planet Earth
EPSC 233	(3)	Earth and Life History
EPSC 425	(3)	Sediments to Sequences
EPSC 549	(3)	Hydrogeology
ESYS 301	(3)	Earth System Modelling
GEOG 200	(3)	Geographical Perspectis:World Environmental Problems
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 205	(3)	Global Change: St, Present and Future
GEOG 272	(3)	Earth's Changing Suate
GEOG 308	(3)	Principles of Remote Sensing
GEOG 321	(3)	Climatic Environments
GEOG 322*	(3)	Environmental Hydrology
		O1AeNVB 430*( In3O 92 81.0f8 4rces 0 1 285.931 395.1.47949 442.6 30f5T Tm (v0 1 285.930d49 65.32 T2

GEOG 470	(3)	Wetlands
LSCI 230*	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology
MIME 308	(3)	Social Impact offechnology