



This publication outlines only the programs created or revised after the *Undergraduate Programs Calendar* was printed in March 2002. For more information on program requirements and regulations, as well as other programs offered, please refer to the Calendar. The University reserves the right to make changes without prior notice to the information contained in this publication, including the revision or cancellation of particular courses or programs.

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Canada

1 Agricultural and Environmental Sciences

1.1 Freshman Entry Program

	CREDITS
Required Courses - Fall	14.5
AEBI 120 General Biology	3.0
AEMA 101 Calculus 1	3.0
AEPH 112 Introductory Physics 1	4.0
AGRI 195* Freshman Seminar 1	0.5
FDSC 230 Organic Chemistry	4.0
Required Courses - Winter	12.5
AEMA 102 Calculus 2	4.0
AEPH 114 Introductory Physics 2	4.0
AGRI 196* Freshman Seminar 2	0.5
FDSC 110 Inorganic Chemistry	4.0
Elective - Winter	3.0
Electives	3.0
AEBI 202 Cellular Biology must be substituted for students in programs in the B.Sc.(Nutr.Sc.) degree.	
ABEN 103 Linear Algebra must be substituted for students in the B.Sc.(Agr.Eng) degree.	
Total Credits	30.0
* AGRI 195 and AGRI 196 are required for all freshmen excluding Dietetics and Nutrition students.	

1.2 Animal Science

ANIMAL SCIENCE MAJOR

Required Courses: 63 credits.

Complementary Courses: 6 credits.

Electives: selected in consultation with Academic Adviser, to meet the minimum 90-credit requirement for the degree.

	CREDITS
Required Courses:	63
ABEN 322 Food Prod/Processing Waste Mgmt	3
AEMA 310 Statistical Methods 1	3
AGEC 200 Principles of Microeconomics	3
AGRI 341 Ecological Agriculture Systems	3
ANSC 250 Principles of Animal Science	3
ANSC 301 Principles of Animal Breeding	3
ANSC 312 Animal Health and Disease	3
ANSC 323 Mammalian Physiology	4
ANSC 324 Animal Reproduction	3
ANSC 330 Fundamentals of Nutrition	3
ANSC 433 Animal Nutrition	3
ANSC 450 Dairy Cattle Production	3
ANSC 452 Beef Cattle and Sheep Production	3
ANSC 454 Swine Production	3
ANSC 456 Poultry Production	3
ANSC 495D1 Seminar	1
ANSC 495D2 Seminar	1
FDSC 211 Biochemistry 1	3
MICR 230 Microbial World	3
PLNT 211 Principles of Plant Science	3
SOIL 210 Principles of Soil Science	3
WILD 375 Issues in Environmental Sciences	3

Complementary Courses:

One Ethics course:	3	6
ENVR 203 (3) Knowledge, Ethics and Environment or RELG 270 (3) Ethics and the Environment		
One additional Economics course	3	

1.3 Interdisciplinary Studies

MINOR IN ECOLOGICAL AGRICULTURE

Required Courses: 9 credits.

Complementary Courses: 15 credits.

	CREDITS
Required Courses:	9
AGRI 210 Agro-Ecological History	3
AGRI 340 Principles of Ecological Agriculture	3
AGRI 341 Ecological Agriculture Systems	3

Complementary Courses:

15 credits chosen from the following, in consultation with the Academic Adviser for Ecological Agriculture		15
with at least 3 credits chosen from:		3-9
NRSC 521 (3) Soil Microbiology and Biochemistry		
SOIL 335 (3) Soil Ecology and Management		
SOIL 490D1 (1.5) Plan global de fertilisation		
SOIL 490D2 (1.5) Plan global de fertilisation		
and the remaining credits to be chosen from:		6-12
AEBI 205 (3) Principles of Ecology		
AGEC 333 (3) Resource Economics		
AGRI 435 (3) Soil and Water Quality Management		
AGRI 491D1 (1.5) Co-op Experience		
AGRI 491D2 (1.5) Co-op Experience		
ENTO 352 (3) Control of Insect Pests		
MICR 331 (3) Microbial Ecology		
NUTR 512 (3) Herbs, Food and Phytochemicals		
PLNT 300 (3) Cropping Systems		
PLNT 361 (3) Pest Management & the Environment		
PLNT 434 (3) Weed Biology and Control		
PLNT 460 (3) Plant Ecology		
RELG 270 (3) Ethics and the Environment		
WILD 375 (3) Issues in Environmental Sciences		
WOOD 410 (3) The Forest Ecosystem		
ZOOL 311 (3) Ethology		

CERTIFICATE IN ECOLOGICAL AGRICULTURE

Required Courses: 9 credits.

Complementary Courses: 21 credits.

	CREDITS
Required Courses:	9
AGRI 210 Agro-Ecological History	3
AGRI 340 Principles of Ecological Agriculture	3
AGRI 341 Ecological Agriculture Systems	3

Complementary Courses:

21 credits chosen from the following, in consultation with the Academic Adviser for Ecological Agriculture		21
with at least 3 credits chosen from:		3-9
NRSC 521 (3) Soil Microbiology and Biochemistry		
SOIL 335 (3) Soil Ecology and Management		
SOIL 490D1 (1.5) Plan global de fertilisation		
SOIL 490D2 (1.5) Plan global de fertilisation		
and the remaining credits to be chosen from:		12-18
AEBI 205 (3) Principles of Ecology		
AGEC 333 (3) Resource Economics		
AGRI 435 (3) Soil and Water Quality Management		
AGRI 491D1 (1.5) Co-op Experience		
AGRI 491D2 (1.5) Co-op Experience		
ENTO 352 (3) Control of Insect Pests		
MICR 331 (3) Microbial Ecology		
NUTR 512 (3) Herbs, Food and Phytochemicals		
PLNT 300 (3) Cropping Systems		
PLNT 361 (3) Pest Management & the Environment		
PLNT 434 (3) Weed Biology and Control		
PLNT 460 (3) Plant Ecology		

RELG 270	(3)	Ethics and the Environment
WILD 375	(3)	Issues in Environmental Sciences
WOOD 410	(3)	The Forest Ecosystem
ZOOL 311	(3)	Ethology

**AGRICULTURAL SCIENCES MAJOR –
ECOLOGICAL AGRICULTURE OPTION (90 credits)**

Required Courses: 61 credits.

Complementary Courses: 16 - 19 credits.

Electives: selected in consultation with Academic Adviser, to meet the minimum 90-credit requirement for the degree.

		CREDITS
Required Courses:		
ABEN 300	Elements of Agricultural Engineering	3
AEMA 310	Statistical Methods 1	3
AGEC 200	Principles of Microeconomics	3
AGEC 205	Principles of Ecology	3
AGEC 231	Economic Systems of Agriculture	3
AGRI 210	Agro-Ecological History	3
AGRI 220	Professional Practice Seminar 1	0.5
AGRI 221	Professional Practice Seminar 2	0.5
AGRI 320	Professional Practice Seminar 3	0.5
AGRI 321	Professional Practice Seminar 4	0.5
AGRI 340	Principles of Ecological Agriculture	3
AGRI 341	Ecological Agriculture Systems	3
AGRI 420	Professional Practice Seminar 5	0.5
AGRI 421	Professional Practice Seminar 6	0.5
AGRI 490	Agri-food Industry Project	3
ANSC 250	Principles of Animal Science	3
CELL 204	Genetics	4
ENTO 352	Control of Insect Pests	3
FDSC 211	Biochemistry 1	3
MICR 230	Microbial World	3
PLNT 211	Principles of Plant Science	3
PLNT 300	Cropping Systems	3
RELG 270	Ethics and the Environment	3
SOIL 210	Principles of Soil Science	3
SOIL 315	Soil Fertility and Fertilizers	3

Complementary Courses: **16 to 19**

at least one of:

ANSC 323	(4)	Mammalian Physiology
PLNT 353	(4)	Plant Structure and Function

at least one production course in Agricultural Science:

AGEC 331	(3)	Farm Business Management
ANSC 450	(3)	Dairy Cattle Production
ANSC 452	(3)	Beef Cattle and Sheep Production
ANSC 454	(3)	Swine Production
ANSC 456	(3)	Poultry Production
PLNT 331	(3)	Field Crops

at least 3 credits must be chosen from three of the four blocks below:

AGRI 201D1	(3)	Agri-Environment Internship
and AGRI 201D2	(3)	Agri-Environment Internship
AGRI 435	(3)	Soil and Water Quality Management
NRSC 521	(3)	Soil Microbiology and Biochemistry
SOIL 335	(3)	Soil Ecology and Management
SOIL 490D1	(1.5)	Plan global de fertiisation
and SOIL 490D2	(1.5)	Plan global de fertiisation
MICR 331	(3)	Microbial Ecology
PLNT 434	(3)	Weed Biology and Control
PLNT 460	(3)	Plant Ecology
AGEC 333	(3)	Resource Economics
ENVR 201	(3)	Society and Environment
ENVR 400	(3)	Environmental Thought

**AGRICULTURAL SCIENCES INTERNSHIP MAJOR –
ECOLOGICAL AGRICULTURE OPTION (102 credits)**

Required Courses: 73 credits.

Complementary Courses: 13 credits.

Electives: selected in consultation with Academic Adviser, to meet the minimum 102-credit requirement for the degree.

		CREDITS
Required Courses:		
73		
All of the required courses (61 credits) specified for the Agricultural Sciences Major – Ecological Agriculture Option, with the addition of:		
AGRI 201D1	Agri-Environment Internship	3
AGRI 201D2	Agri-Environment Internship	3
AGRI 301D1	Agri-Environment Internship	3
AGRI 301D2	Agri-Environment Internship	3

Complementary Courses: **13**

at least one of:

ANSC 323	(4)	Mammalian Physiology
PLNT 353	(4)	Plant Structure and Function
at least one production course in Agricultural Science:		
AGEC 331	(3)	Farm Business Management
ANSC 450	(3)	Dairy Cattle Production
ANSC 452	(3)	Beef Cattle and Sheep Production
ANSC 454	(3)	Swine Production
ANSC 456	(3)	Poultry Production
PLNT 331	(3)	Field Crops

at least 3 credits must be chosen from two of the three blocks below:

AGRI 435	(3)	Soil and Water Quality Management
NRSC 521	(3)	Soil Microbiology and Biochemistry
SOIL 335	(3)	Soil Ecology and Management
SOIL 490D1	(1.5)	Plan global de fertiisation
and SOIL 490D2	(1.5)	Plan global de fertiisation
MICR 331	(3)	Microbial Ecology
PLNT 434	(3)	Weed Biology and Control
PLNT 460	(3)	Plant Ecology

AGEC 333	(3)	Resource Economics
ENVR 201	(3)	Society and Environment
ENVR 400	(3)	Environmental Thought

**AGRICULTURAL SCIENCES MAJOR –
SOIL SCIENCE OPTION (90 credits)**

Required Courses: 52 credits.

Complementary Courses: 25 credits.

Electives: selected in consultation with Academic Adviser, to meet the minimum 90-credit requirement for the degree.

		CREDITS
Required Courses:		
52		
ABEN 300	Elements of Agricultural Engineering	3
AEMA 310	Statistical Methods 1	3
AGEC 200	Principles of Microeconomics	3
AGEC 231	Economic Systems of Agriculture	3
AGRI 210	Agro-Ecological History	3
AGRI 220	Professional Practice Seminar 1	0.5
AGRI 221	Professional Practice Seminar 2	0.5
AGRI 320	Professional Practice Seminar 3	0.5
AGRI 321	Professional Practice Seminar 4	0.5
AGRI 420	Professional Practice Seminar 5	0.5
AGRI 421	Professional Practice Seminar 6	0.5
AGRI 490	Agri-food Industry Project	3
ANSC 250	Principles of Animal Science	3
CELL 204	Genetics	4
ENTO 352	Control of Insect Pests	3
FDSC 211	Biochemistry 1	3
MICR 230	Microbial World	3
PLNT 211	Principles of Plant Science	3

PLNT 300	Cropping Systems	3
RELG 270	Ethics and the Environment	3
SOIL 210	Principles of Soil Science	3
SOIL 315	Soil Fertility and Fertilizers	3

Complementary Courses:

at least one of:

ANSC 323	(4) Mammalian Physiology
PLNT 353	(4) Plant Structure and Function

at least one production course in Agricultural Science:

AGEC 331	(3) Farm Business Management
ANSC 450	(3) Dairy Cattle Production
ANSC 452	(3) Beef Cattle and Sheep Production
ANSC 454	(3) Swine Production
ANSC 456	(3) Poultry Production
PLNT 331	(3) Field Crops

a minimum of 18 credits chosen from the following:

AGRI 435	(3) Soil and Water Quality Management
ABEN 217	(3) Hydrology and Drainage
SOIL 200	(3) Introduction to Earth Science
SOIL 326	(3) Soil Genesis and Classification
SOIL 331	(3) Soil Physics
SOIL 335	(3) Soil Ecology and Management
SOIL 410	(3) Soil Chemistry
SOIL 521	(3) Soil Microbiology and Biochemistry

AGRICULTURAL SCIENCES INTERNSHIP MAJOR – SOIL SCIENCE OPTION (102 credits)

Required Courses: 64 credits.

Complementary Courses: 25 credits.

Electives: selected in consultation with Academic Adviser, to meet the minimum 102-credit requirement for the degree.

CREDITS

Required Courses:

64

All of the required courses (52 credits) specified for the Agricultural Sciences Major – Soil Science, with the addition of:

AGRI 201D1	Agri-Environment Internship	3
AGRI 201D2	Agri-Environment Internship	3
AGRI 301D1	Agri-Environment Internship	3
AGRI 301D2	Agri-Environment Internship	3

Complementary Courses:

25

As described for the Agricultural Sciences Major – Soil Science Option.

1.4 Natural Resource Sciences

APPLIED ZOOLOGY MAJOR

Required Courses: 27 credits.

Complementary Courses: 36 credits.

Electives: to meet the minimum requirement of 90 credits; chosen in consultation with the Academic Adviser.

CREDITS

27

Required Courses:

AEBI 200	Biology of Organisms	3
AEBI 202	Cellular Biology	3
AEBI 205	Principles of Ecology	3
AEMA 310	Statistical Methods 1	3
CELL 204	Genetics	4
FDSC 211	Biochemistry 1	3
PLNT 201	Comparative Plant Biology	3
WILD 491D1	Seminar	1
WILD 491D2	Seminar	1
ZOOL 312	Zoological Systematics and Evolution	3

¹ Downtown Campus

The following Zoology courses from the Downtown Campus may be substituted for those in the above list of Macdonald Campus

Complementary Courses:

36 credits in any combination from List A, B and/or C

36

List A (Animal Diversity)

BIOL 327 ¹	(3) Herpetology
BIOL 351 ¹	(3) The Biology of Invertebrates
MICR 230	(3) Microbial World
WILD 350	(3) Mammalogy
WILD 420	(3) Ornithology
ZOOL 307	(3) Natural History of the Vertebrates
ZOOL 424	(3) Parasitology

List B (Entomology)

ENTO 352	(3) Control of Insect Pests
ENTO 440	(3) Systematic Entomology
ENTO 525	(3) Insect Ecology
ENTO 535	(3) Aquatic Entomology
NRSC 330	(3) Insect Biology
NRSC 515	(3) Parasitoid Behavioural Ecology
NRSC 520	(3) Insect Physiology
NRSC 550	(3) Veterinary and Medical Entomology

List C (Interactions and Applications)

BIOL 331 ¹	(3) Ecology/Behaviour Field Course
BIOL 465 ¹	(3) Conservation Biology
NRSC 497D1	(2.5) Project 2
NRSC 497D2	(2.5) Project 2
PLNT 358	(3) Flowering Plant Diversity
SOIL 335	(3) Soil Ecology and Management
WILD 401	(3) Fisheries and Wildlife Management
WILD 410	(3) Wildlife Ecology
ZOOL 311	(3) Ethology
ZOOL 313	(3) Zoogeography
ZOOL 315	(3) Science of Inland Waters

Complementary Courses with the prior permission of the Academic Adviser and the Macdonald Committee on Academic Standing. When selecting electives, students are encouraged to consult with their Academic Adviser.

Department of Biology (Downtown Campus) Courses:

BIOL 307	(3) Behavioural Ecology and Sociobiology
BIOL 334	(3) Field Course, Applied Tropical Ecology
BIOL 335	(3) Marine Mammals
BIOL 336	(3) Marine Aquaculture
BIOL 337	(3) Ecology and Behaviour of Fishes
BIOL 352	(3) Vertebrate Evolution
BIOL 437	(3) Advanced Invertebrate Zoology
BIOL 542	(3) Marine Biology

RESOURCE CONSERVATION MAJOR

Required Courses: 25 credits

Complementary Courses: 33 credits.

Electives: to meet the minimum 90-credit requirement for the degree.

CREDITS

25

Required Courses:

AEBI 205	Principles of Ecology	3
AGEC 200	Principles of Microeconomics	3
AGEC 333	Resource Economics	3
FDSC 211	Biochemistry I	3
SOIL 200	Introduction to Earth Science	3
SOIL 210	Principles of Soil Science	3
WILD 437	Assessing Environmental Impact	2
WILD 491	Seminar	2
ZOOL 315	Science of Inland Waters	3

Complementary Courses:

min. 33

AEMA 310	(3) Statistical Methods 1	3
or MATH 203 ¹	(3) Principles of Statistics 1	
PLNT 201	(3) Comparative Plant Biology	3
or PLNT 211	(3) Principles of Plant Science	

At least two of the following:	6
ABEN 214 (3) Surveying	
ABEN 217 (3) Hydrology and Drainage	
or GEOG 322 ¹ (3) Hydrology	
ABEN 416 (3) Engineering for Land Development	
AEPH 201 (3) Introductory Meteorology	
WILD 333 (3) Physical and Biological Aspects of Pollution	
At least three of the following:	9 or 10
AEMA 306 (3) Mathematical Methods in Ecology	
BIOL 465 ¹ (3) Conservation Biology	
MICR 331 (3) Microbial Ecology	
PLNT 358 (3) Flowering Plant Diversity	
SOIL 335 (3) Soil Ecology and Management	
WILD 401 (4) Fisheries and Wildlife Management	
WOOD 410 (3) The Forest Ecosystem	
At least three of the following:	9
AGRI 435 (3) Soil and Water Quality Management	
SOIL 315 (3) Soil Fertility and Fertilizers	
SOIL 326 (3) Soil Genesis and Classification	
SOIL 331 (3) Soil Physics	
SOIL 410 (3) Soil Chemistry	
NRSC 521 (3) Soil Microbiology and Biochemistry	
At least one of the following:	3
GEOG 201 ¹ (3) Geographical Information Systems 1	
ABEN 330 (3) GIS for Biosystems Engineering	
WILD 310 (3) Air Photo and Imagery Interpretation	

¹ Downtown Campus

Note: Other courses on the Downtown Campus may be equivalent to some required courses; consult the Academic Adviser. Course substitutions must be approved by the Committee on Academic Standing.

WILDLIFE BIOLOGY MAJOR

Required Courses: 37 credits.
Complementary Courses: 27 credits.
Electives: to meet the requirement of 90 credits for the degree.

	CREDITS
Required Courses:	37
AEBI 200 Biology of Organisms	3
AEBI 205 Principles of Ecology	3
AEMA 310 Statistical Methods 1	3
CELL 204 Genetics	4
FDSC 211 Biochemistry 1	3
PLNT 201 Comparative Plant Biology	3
PLNT 358 Flowering Plant Diversity (Prereq: AEBI 201)	3
WILD 401 Fisheries and Wildlife Management (Prereq: PLNT 358)	4
WILD 410 Wildlife Ecology	3
WILD 491D1 Seminar	1
WILD 491D2 Seminar	1
ZOOL 307 Natural History of the Vertebrates	3
ZOOL 312 Zoological Systematics and Evolution	3
Complementary Courses:	27
9 credits from List A (Organismal Biology)	
BIOL 327 (3) Herpetology	
WILD 350 (3) Mammalogy	
WILD 420 (3) Ornithology	
ZOOL 311 (3) Ethology	
ZOOL 424 (3) Parasitology	

18 credits from List B (Integration and Applications)	
AEMA 306 (3) Mathematical Methods in Ecology	
AGEC 333 (3) Resource Economics	
ANSC 323 (4) Mammalian Physiology	
BIOL 465 (3) Conservation Biology	
NRSC 497D1 (2.5) Project 2	
NRSC 497D2 (2.5) Project 2	
NUTR 361 (3) Environmental Toxicology	
PLNT 460 (3) Plant Ecology	
WILD 382 (3) Fish and Wildlife Propagation	
WILD 415 (2) Conservation Law	
WILD 421 (3) Wildlife Conservation	
WILD 437 (3) Assessing Environmental Impact	
WILD 475 (3) Desert Ecology	
WOOD 410 (3) The Forest Ecosystem	
WOOD 441 (3) Integrated Forest Management	
ZOOL 313 (3) Zoogeography	
ZOOL 315 (3) Science of Inland Waters	

1.5 Plant Science

BOTANICAL SCIENCE MAJOR

Required Courses: 42 credits.
Complementary Courses: 18 credits, selected from an approved list in consultation with the Academic Adviser; taken in either the Ecology or the Molecular Option.
Electives: to meet the minimum requirement of 90 credits for the degree.
Note: courses marked with an asterisk (*) are offered on the Downtown Campus.

	CREDITS
Required Courses:	42
AEBI 200 Biology of Organisms	3
AEBI 202 Cellular Biology	3
AEBI 205 Principles of Ecology	3
AEMA 310 Statistical Methods 1	3
CELL 204 Genetics	4
FDSC 211 Biochemistry 1	3
PLNT 201 Comparative Plant Biology	3
PLNT 220 Introduction to Vascular Plants	1
PLNT 221 Introduction to Fungi	1
PLNT 353 Plant Structure and Function	4
PLNT 358 Flowering Plant Diversity	3
PLNT 458 Flowering Plant Systematics	3
PLNT 460 Plant Ecology	3
PLNT 489 Project Planning and Proposal	1
PLNT 490 Research Project	2
PLNT 495 Seminar 1	1
PLNT 496 Seminar 2	1
Complementary Courses	18
Either the Ecology Option or the Molecular Option	
Ecology Option:	18
at least 12 credits must be chosen from the following:	
AEMA 306 (3) Mathematical Methods in Ecology	
AGRI 340 (3) Principles of Ecological Agriculture	
*BIOL 324 (3) Ecological Genetics	
*BIOL 331 (3) Ecology and Behaviour Field Course	
*BIOL 334 (3) Field course in Applied Tropical Ecology	
*BIOL 465 (3) Conservation Biology	
*BIOL 483 (3) Stat. Approaches in Ecology and Evolution	
*GEOG 350 (3) Ecological Biogeography	
MICR 331 (3) Microbial Ecology	
WILD 415 (2) Conservation Law	
WILD 437 (3) Assessing Environmental Impact	
WOOD 410 (3) The Forest Ecosystem	
WOOD 420 (3) Environmental Issues in Forestry	

ZOOL 315 (3) Science of Inland Waters

the remaining credits, if any, to be chosen from the Molecular Option Complementary Course list or from the General Complementary Course list given below.

Molecular Option:

18

at least 12 credits must be chosen from the following:

AEBI 306 (3) Biological Instrumentation
*BIOL 301 (3) Laboratory in Molecular and Cellular Biology
*BIOL 303 (3) Developmental Biology
*BIOL 333 (3) Plant Biotechnology
BTEC 501 (3) Bioinformatics
CELL 500 (3) Plant Molecular Genetics
CELL 501 (3) Plant Molecular Biology and Genetics
FDSC 212 (2) Biochemistry Laboratory
MICR 200 (3) Laboratory Methods in Microbiology
MICR 230 (3) Microbial World
MICR 338 (3) Bacterial Molecular Genetics
PARA 400 (3) Eukaryotic Cells and Viruses
PLNT 525 (3) Advanced Micropropagation
PLNT 535 (3) Plant Breeding

the remaining credits, if any, to be chosen from the Ecology Option Complementary Course list or from the General Complementary Course list given below.

**BOTANICAL SCIENCE MAJOR,
GENERAL COMPLEMENTARY COURSES:**

*BIOL 555 (3) Functional Ecology of Trees
NUTR 512 (3) Herbs, Food and Phytochemicals
PLNT 215 (1) Orientation in Plant Science
PLNT 304 (3) Biology of Fungi
PLNT 305 (3) Plant Pathology
PLNT 310 (3) Plant Propagation
PLNT 434 (3) Weed Biology and Control
PLNT 450 (2) Special Topics Plant Science
PLNT 451 (3) Special Topics Plant Science
SOIL 210 (3) Principles of Soil Science

2 Arts

2.1 Anthropology

**MINOR CONCENTRATION IN SOCIO-CULTURAL
ANTHROPOLOGY (Expandable) (18 credits)**

Complementary Courses (18 credits)

6 credits, two 200-level courses selected from:

ANTH 202 (3) Comparative Cultures
ANTH 203 (3) Human Evolution
ANTH 204 (3) Symbol Systems and Ideologies
ANTH 205 (3) Cultures of the World
ANTH 206 (3) Environment and Culture
ANTH 207 (3) Ethnography through Film
ANTH 209 (3) Anthropology of Religion
ANTH 212 (3) Anthropology of Development
ANTH 214 (3) Violence, Warfare, Culture
ANTH 227 (3) Medical Anthropology

3 credits, one Area course selected from:

ANTH 306 (3) Native Peoples' History in Canada
ANTH 321 (3) Peoples and Cultures of Africa
ANTH 322 (3) Social Change in Modern Africa
ANTH 326 (3) Peoples of Central and South America
ANTH 327 (3) Peoples of South Asia
ANTH 328 (3) Peoples and Cultures of South-East Asia
ANTH 329 (3) Modern Chinese Society and Change
ANTH 332 (3) Peoples of Oceania
ANTH 337 (3) Mediterranean Society and Culture
ANTH 338 (3) Native Peoples of North America

ANTH 340 (3) Middle Eastern Society and Culture
ANTH 415 (3) Problems in African Anthropology
ANTH 427 (3) Social Change in South Asia
ANTH 436 (3) North American Native Peoples

9 credits of additional Anthropology courses of which no more than 3 credits may be at the 200 level.

**MINOR CONCENTRATION IN ANTHROPOLOGICAL
ARCHAEOLOGY (Expandable) (18 credits)**

Required Course (3 credits)

ANTH 201 (3) Prehistoric Archaeology

Complementary Courses (15 credits)

3 credits, one Area course selected from:

ANTH 317 (3) Prehistory of North America
ANTH 331 (3) Prehistory of East Asia
ANTH 335 (3) Ancient Egyptian Civilization
ANTH 345 (3) Prehistory of Africa
ANTH 347 (3) Paleolithic Cultures of Europe
ANTH 348 (3) Early Prehistory of the New World

12 credits, selected from:

ANTH 203 (3) Human Evolution
ANTH 313 (3) Comparative Studies of Early Civilizations
ANTH 317 (3) Prehistory of North America
ANTH 331 (3) Prehistory of East Asia
ANTH 335 (3) Ancient Egyptian Civilization
ANTH 345 (3) Prehistory of Africa
ANTH 347 (3) Paleolithic Cultures of Europe
ANTH 348 (3) Early Prehistory of the New World
ANTH 359 (3) History of Archaeological Theory
ANTH 403 (3) Current Issues in Archaeology
ANTH 413 (3) Gender in Archaeology
ANTH 417 (3) Ethnoarchaeology
ANTH 419 (3) Archaeology of Hunter-Gatherers
ANTH 420 (3) Lithic Technology and Analysis
ANTH 431 (3) Problems in East Asian Archaeology

MAJOR CONCENTRATION IN ANTHROPOLOGY (36 credits)

Complementary Courses (36 credits)

6 credits selected from the 200-level courses in Anthropology

6 credits, two Core courses (350-level) selected from:

ANTH 352 (3) History of Anthropological Theory
ANTH 355 (3) Theories of Culture and Society
ANTH 357 (3) Archaeological Methods
ANTH 358 (3) Process of Anthropological Research
ANTH 359 (3) History of Archaeological Theory

6 credits, two Area courses selected from:

Ethnography

ANTH 306 (3) Native Peoples' History in Canada
ANTH 321 (3) Peoples and Cultures of Africa
ANTH 322 (3) Social Change in Modern Africa
ANTH 326 (3) Peoples of Central and South America
ANTH 327 (3) Peoples of South Asia
ANTH 328 (3) Peoples and Cultures of South-east Asia
ANTH 329 (3) Modern Chinese Society and Change
ANTH 332 (3) Peoples of Oceania
ANTH 337 (3) Mediterranean Society and Culture
ANTH 338 (3) Native Peoples of North America
ANTH 340 (3) Middle Eastern Society and Culture
ANTH 415 (3) Problems in African Anthropology
ANTH 427 (3) Social Change in South Asia
ANTH 436 (3) North American Native Peoples

Archaeology

ANTH 317 (3) Prehistory of North America
ANTH 331 (3) Prehistory of East Asia
ANTH 335 (3) Ancient Egyptian Civilization
ANTH 345 (3) Prehistory of Africa
ANTH 347 (3) Paleolithic Cultures of Europe

- ANTH 348 (3) Early Prehistory of the New World
 ANTH 552 (3) Problems in the Prehistory of Eastern North America

6 credits, two 400-level Anthropology courses

12 credits of additional Anthropology courses of which no more than 6 credits may be at the 200 level.

2.2 East Asian Studies

MAJOR CONCENTRATION IN EAST ASIAN STUDIES

(36 credits)

Complementary Courses (36 credits)

6 credits, two of the following introductory East Asian courses

- EAST 211 (3) Introduction to East Asian Culture: China
 EAST 212 (3) Introduction to East Asian Culture: Japan
 EAST 213 (3) Introduction to East Asian Culture: Korea

6 - 9 credits to be chosen from the following East Asian language courses:

- EAST 220; EAST 230; EAST 240; EAST 320; EAST 330;
 EAST 340; EAST 433; EAST 434; EAST 420; EAST 430;
 EAST 440; EAST 520; EAST 530; EAST 540; EAST 543;
 EAST 544; EAST 535; EAST 536; EAST 537.

(Admission to language courses is subject to placement tests)

6 - 18 credits, at least 3 of which must be at the 400 or 500 level, in East Asian Culture and Literature, chosen from the following courses:

- EAST 313 (3) Current Topics: Korean Studies 1
 EAST 314 (3) Current Topics: Korean Studies 2
 EAST 315 (3) Modern Korean Literature 1
 EAST 351 (3) Women in Chinese Literature
 EAST 353 (3) Twentieth Century China in Film and Fiction
 EAST 354 (3) Taoist and Buddhist Apocalypses
 EAST 362 (3) Japanese Cinema
 EAST 363 (3) Aesthetics and Politics of Vision in Premodern Japan
 EAST 364 (3) Mass Culture and Postwar Japan
 EAST 452 (3) Song and Lyric in Traditional China
 EAST 453 (3) History of Chinese Fiction
 EAST 456 (3) Chinese Drama and Popular Culture
 EAST 461 (3) Japanese Novel
 EAST 462 (3) Japan in Asia
 EAST 464 (3) Image/Text/Performance
 EAST 466 (3) Feminism and Japan
 EAST 515 (3) Seminar: Beyond Orientalism
 EAST 550 (3) Classical Chinese Poetry
 EAST 551 (3) Technologies of the Self in Early China
 EAST 562 (3) Japanese Literary Theory and Practice
 EAST 563 (3) Images, Ideograms, Aesthetics
 EAST 564 (3) Structures of Modernity: Japan
 EAST 590 (3) Multiple Narratives of the "Orient"

or equivalent chosen in consultation with the Majors adviser.

6 - 18 credits, at least 3 of which must be at the 400 or 500 level in East Asian Area Studies. Courses from at least two disciplines or departments must be included

2.3 French Language and Literature

CONCENTRATION MINEURE LANGUE ET LITTÉRATURE FRANÇAISES – LETTRES (18 crédits)

(Convertible en Concentration majeure Lettres)

Cours obligatoires (9 crédits)

- FREN 250 (3) Littérature française avant 1800
 FREN 251 (3) Littérature française depuis 1800
 FREN 252 (3) Littérature québécoise

Cours complémentaires (9 crédits)

9 crédits parmi les cours de littérature française, québécoise ou francophone offerts par le Département de langue et littérature françaises (de niveau 300 ou plus).

CONCENTRATION MINEURE LANGUE ET LITTÉRATURE FRANÇAISES – LETTRES ET TRADUCTION (18 crédits)

(Convertible en Concentration majeure Lettres et traduction)

Cours obligatoires (9 crédits)

- FREN 250 (3) Littérature française avant 1800
 FREN 251 (3) Littérature française depuis 1800
 FREN 252 (3) Littérature québécoise

Cours complémentaires (9 crédits)

9 crédits parmi:

- FREN 239 (3) Stylistique comparée
 FREN 244 (3) Traduction 1
 FREN 346 (3) Traduction 2
 FREN 349 (3) Traduction 3
 FREN 431 (3) Traduction 4
 FREN 441 (3) Thème anglais
 FREN 443 (3) Version littéraire

CONCENTRATION MINEURE LANGUE ET LITTÉRATURE FRANÇAISES – THÉORIE ET CRITIQUE LITTÉRAIRES (18 crédits)

(Convertible en Concentration majeure Lettres)

Cours obligatoires (6 crédits)

- FREN 394 (3) Théorie de la traduction
 FREN 490 (3) Critique et théorie

Cours complémentaires (12 crédits)

3 crédits parmi:

- FREN 250 (3) Littérature française avant 1800
 FREN 251 (3) Littérature française depuis 1800
 FREN 252 (3) Littérature québécoise

3 crédits parmi:

- FREN 334 (3) Méthodes d'analyse des textes littéraires 1
 FREN 335 (3) Méthodes d'analyse des textes littéraires 2

6 crédits parmi les cours de littérature française, québécoise ou francophone offerts par le Département de langue et littérature françaises (de niveau 300 ou plus).

CONCENTRATION MAJEURE LANGUE ET LITTÉRATURE FRANÇAISES – LETTRES (36 crédits)

Cours obligatoires (9 crédits)

- FREN 250 (3) Littérature française avant 1800
 FREN 251 (3) Littérature française depuis 1800
 FREN 252 (3) Littérature québécoise

Cours complémentaires (27 crédits)

3 crédits parmi:

- FREN 334 (3) Méthodes d'analyse des textes littéraires 1
 FREN 335 (3) Méthodes d'analyse des textes littéraires 2

6 crédits parmi:

- FREN 201 (3) Composition 1
 FREN 203 (3) Composition 2
 FREN 245 (3) Grammaire avancée
 FREN 247 (3) Dissertation

18 crédits parmi les cours de littérature française, québécoise ou francophone offerts par le Département de langue et littérature françaises (de niveau 300 ou plus).

CONCENTRATION MAJEURE LANGUE ET LITTÉRATURE FRANÇAISES – LETTRES ET TRADUCTION (36 crédits)

Cours obligatoires (15 crédits)

- FREN 231 (3) Linguistique française
 FREN 250 (3) Littérature française avant 1800
 FREN 251 (3) Littérature française depuis 1800
 FREN 252 (3) Littérature québécoise
 FREN 347 (3) Terminologie générale

Cours complémentaires (21 crédits)

12 crédits parmi:

- FREN 239 (3) Stylistique comparée
 FREN 244 (3) Traduction 1
 FREN 346 (3) Traduction 2

- FREN 349 (3) Traduction 3
 FREN 431 (3) Traduction 4
 FREN 441 (3) Thème anglais
 FREN 443 (3) Version littéraire
 FREN 494 (3) Traduction spécialisée

9 crédits parmi les cours de littérature française, québécoise ou francophone offerts par le Département de langue et littérature françaises (de niveau 300 ou plus).

PROGRAMME DE SPÉCIALISATION, OPTION LETTRES
 (60 crédits)

Cours obligatoires (42 crédits)

- FREN 250 (3) Littérature française avant 1800
 FREN 251 (3) Littérature française depuis 1800
 FREN 252 (3) Littérature québécoise
 FREN 352 (3) Lectures 1
 FREN 353 (3) Lectures 2
 FREN 374 (3) Lectures 3
 FREN 395 (3) Travaux pratiques 1
 FREN 396 (3) Travaux pratiques 2
 FREN 397 (3) Travaux pratiques 3
 FREN 464D1 (3) Mémoire de spécialisation
 FREN 464D2 (3) Mémoire de spécialisation
 FREN 490 (3) Critique et théorie
 FREN 493 (3) Lectures 4
 FREN 497 (3) Travaux pratiques 4

Cours complémentaires (18 crédits)

6 crédits parmi les cours suivants (U3):

- FREN 461 (3) Questions de littérature 1
 FREN 472 (3) Questions de littérature 2
 FREN 498 (3) Questions de littérature 3
 FREN 499 (3) Questions de littérature 4

12 crédits au Département, répartis comme suit (maximum de 6 crédits dans les cours de niveau 200; minimum de 6 crédits dans les cours de niveau 400):

- 3 crédits de littérature/civilisation française
- 3 crédits de littérature/civilisation québécoise
- 3 crédits de langue/traduction
- 3 crédits au choix

En plus des cours du programme de Spécialisation, les étudiants doivent faire une Concentration mineure (18 crédits) dans un département autre que celui de leur programme de Spécialisation.

En Spécialisation, les étudiants doivent conserver au minimum une moyenne de B pour l'ensemble du programme, et un CGPA de 3.00.

PROGRAMME DE SPÉCIALISATION, OPTION LETTRES ET TRADUCTION (60 crédits)

Cours obligatoires (48 crédits)

- FREN 231 (3) Linguistique française
 FREN 244 (3) Traduction 1
 FREN 250 (3) Littérature française avant 1800
 FREN 251 (3) Littérature française depuis 1800
 FREN 252 (3) Littérature québécoise
 FREN 346 (3) Traduction 2
 FREN 347 (3) Terminologie générale
 FREN 349 (3) Traduction 3
 FREN 352 (3) Lectures 1
 FREN 353 (3) Lectures 2
 FREN 374 (3) Lectures 3
 FREN 431 (3) Traduction 4
 FREN 441 (3) Thème anglais
 FREN 490 (3) Critique et théorie
 FREN 493 (3) Lectures 4
 FREN 494 (3) Traduction spécialisée

Cours complémentaires (12 crédits)

(6 au moins de ces crédits doivent être de niveau 400)

- 6 crédits de langue/traduction

6 crédits de littérature/civilisation française/québécoise

Les étudiants peuvent aussi suivre les cours Questions de littérature 1, 2, 3, 4 (FREN 461, FREN 472, FREN 498, FREN 499) et s'inscrire au FREN 464D1/D2 Mémoire de spécialisation.

En plus des cours du programme de Spécialisation, les étudiants doivent faire une Concentration mineure (18 crédits) dans un département autre que celui de leur programme de Spécialisation.

En Spécialisation, les étudiants doivent conserver au minimum une moyenne de B pour l'ensemble du programme, et un CGPA de 3.00.

DOUBLE SPÉCIALISATION, OPTION LETTRES (36 crédits)

Cours obligatoires (24 crédits)

- FREN 250 (3) Littérature française avant 1800
 FREN 251 (3) Littérature française depuis 1800
 FREN 252 (3) Littérature québécoise
 FREN 352 (3) Lectures 1
 FREN 353 (3) Lectures 2
 FREN 374 (3) Lectures 3
 FREN 490 (3) Critique et théorie
 FREN 493 (3) Lectures 4

Cours complémentaires (12 crédits)

3 crédits parmi les Travaux pratiques (T.P.) le FREN 395: T.P. I, est recommandé;

9 crédits de niveau 200, 300 ou 400 parmi les cours de littérature offerts par le Département.

Les «cours de service» ne pourront être crédités comme cours complémentaires.

En Spécialisation, les étudiants doivent conserver au minimum une moyenne de B pour l'ensemble du programme, et un CGPA de 3.00.

DOUBLE SPÉCIALISATION, OPTION LETTRES ET TRADUCTION (36 crédits)

Cours obligatoires (30 crédits)

- FREN 231 (3) Linguistique française
 FREN 244 (3) Traduction 1
 FREN 250 (3) Littérature française avant 1800
 FREN 251 (3) Littérature française depuis 1800
 FREN 252 (3) Littérature québécoise
 FREN 346 (3) Traduction 2
 FREN 347 (3) Terminologie générale
 FREN 349 (3) Traduction 3
 FREN 431 (3) Traduction 4
 FREN 490 (3) Critique et théorie

Cours complémentaires (6 crédits)

choisis parmi les cours complémentaires de langue/traduction offerts par le Département; 3 crédits doivent être de niveau 400.

En Spécialisation, les étudiants doivent conserver au minimum une moyenne de B pour l'ensemble du programme, et un CGPA de 3.00.

2.4 Geography

MINOR CONCENTRATION IN GEOGRAPHY (18 credits)

[Expandable into the Major Concentration in Geography, but not into the Major Concentration in Geography (Urban Systems).]

The Minor Concentration in Geography is designed to provide students in the Faculty of Arts with an overview of basic elements of human geography at the introductory and advanced level.

Complementary Courses (18 credits)

9 credits (3 courses) from:

- GEOG 201 (3) Introductory Geo-Information Science
 GEOG 203 (3) Environmental Systems
 GEOG 210 (3) Global Places and Peoples
 GEOG 216 (3) Geography of the World Economy
 GEOG 217 (3) Introduction to Urban Geography

GEOG 272 (3) Landforms and Environmental Systems
9 credits (3 courses) from any Geography courses at the 300- or 400-level.

B.A. HONOURS PROGRAM IN GEOGRAPHY (60 credits)

The B.A. Honours program is more concentrated and focused than the Major Concentration. Students must maintain a minimum program GPA of 3.00 and complete a 6-credit Honours thesis. Honours students are encouraged to participate in 500-level seminars with graduate students.

Required Courses (15 credits)

GEOG 201 (3) Introductory Geo-Information Science
GEOG 351 (3) Quantitative Methods in Geography
GEOG 381 (3) Evolution of Geography
GEOG 491D1 (3) Honours Research and Reading
GEOG 491D2 (3) Honours Research and Reading

Complementary Courses (45 credits)

12 credits of introductory courses, four of:

GEOG 203 (3) Environmental Systems
GEOG 210 (3) Global Places and Peoples
GEOG 216 (3) Geography of the World Economy
GEOG 217 (3) Introduction to Urban Geography
GEOG 272 (3) Landforms & Environmental Systems

3 credits of statistics*, one of:

BIOL 373 (3) Biostatistical Analysis
MATH 203 (3) Principles of Statistics
PSYC 204 (3) Introduction to Psychological Statistics
SOC 350 (3) Statistics in Social Research

* Credit given for statistics courses is subject to certain restrictions, see Faculty Degree Requirements.

3 credits from field courses:

GEOG 290 (1) Local Geographical Excursion
(In 2002 reserve Sept. 27-29)
GEOG 398 (3) Field Studies in Human Geography
GEOG 494 (3) Urban Field Studies
GEOG 495 (3) Field Studies - Physical Geography
GEOG 496 (3) Geographical Excursion
GEOG 497 (3) Ecology of Coastal Waters
GEOG 499 (3) Subarctic Field Studies in Geography

18 additional credits in Geography in consultation with the adviser.

9 credits at the 300 or 400-level or above outside Geography. Courses outside Geography, at the 300-level or higher, are selected from the humanities, social and physical sciences, or engineering and approved by the adviser as related to the focus within Geography.

B.A. JOINT HONOURS PROGRAM – GEOGRAPHY COMPONENT (36 credits)

Required Courses (9 credits)

GEOG 201 (3) Introductory Geo-Information Science
GEOG 351 (3) Quantitative Methods in Geography
GEOG 381 (3) Geographic Thought and Practice

Complementary Courses (27 credits)

12 credits of introductory courses, four of:

GEOG 203 (3) Environmental Systems
GEOG 210 (3) Global Places and Peoples
GEOG 216 (3) Geography of the World Economy
GEOG 217 (3) Introduction to Urban Geography
GEOG 272 (3) Landforms & Environmental Systems

3 credits of statistics*, one of:

BIOL 373 (3) Biostatistical Analysis
MATH 203 (3) Principles of Statistics
PSYC 204 (3) Introduction to Psychological Statistics
SOC 350 (3) Statistics in Social Research

* Credit given for statistics courses is subject to certain restrictions, see Faculty Degree Requirements.

3 or 6 credits:

GEOG 491D1*(3) Honours Research and Reading
GEOG 491D2*(3) Honours Research and Reading
or, for those who submit the thesis in the other department,
GEOG 492D1 (1.5) Joint Honours Research and Reading

GEOG 492D2 (1.5) Joint Honours Research and Reading
* Where both departments require an Honours Thesis, the student has the option of submitting the thesis to either department. If the thesis is submitted to the other department, then the student must register for GEOG 492D1/GEOG 492D2. In some cases, it is required that the thesis be jointly supervised by faculty of both departments.

6 to 9 credits from a coherent set of Geography courses approved by the student's adviser. A field course is desirable.

Students who wish to study at the Honours level in two Arts disciplines can combine Joint Honours Program components from any two Arts disciplines.

Prior to registering for each Joint Honours component, students must see advisers in the respective departments for approval of their selection. Departmental advisers will only approve combinations that are feasible, given the nature of the research project that would be involved. **Students who neglect to obtain prior approval may jeopardize their graduation.**

Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

2.5 German Studies

MINOR CONCENTRATION IN GERMAN LITERATURE

(Expandable to the Major Concentration in German Language and Literature) (18 credits)

This is offered as a special program for students who already possess the necessary language skills before coming to McGill, or have acquired the competence by completing the intensive sequence (GERM 200 and GERM 300) as elective courses in their first year.

Required Course (6 credits)

GERM 325 (6) German Language, Intensive Advanced

Complementary Courses (12 credits)

12 credits of courses in German literature or culture, given in German, such as:

GERM 330 (3) Landeskunde
GERM 331 (3) Germany after Reunification
GERM 352 (3) German Literature in the 19th Century
GERM 353 (3) 19th Century Literary Topics
GERM 360 (3) German Literature - 1890-1918
GERM 361 (3) German Literature - 1918-1945
GERM 362 (3) 20th Century Literature Topics
GERM 363 (3) German Postwar Literature
GERM 380 (3) 18th Century German Literature
GERM 400 (3) Interdisciplinary Seminar in Contemporary German Studies
GERM 412 (3) Heros, Lovers and Crusaders
GERM 450 (3) The Classical Period in German Literature
GERM 451 (3) German Romanticism
GERM 455 (3) Women of the Romantic Era
GERM 511 (3) Middle High German Literature
GERM 561 (3) German Literature of the Baroque Period

MINOR CONCENTRATION IN GERMAN LITERATURE AND CULTURE IN TRANSLATION (18 credits) (Non-expandable)

Complementary Courses (18 credits)

18 credits chosen from courses in German literature or culture in translation, such as:

GERM 259 (3) Individual & Society German Literature 1
GERM 260 (3) Individual & Society German Literature 2
GERM 354 (3) Literary Approach to Song
GERM 355 (3) Nietzsche and Wagner
GERM 358 (3) Franz Kafka
GERM 359 (3) Bertolt Brecht
GERM 364 (3) German Culture: Gender and Society
GERM 366 (3) Postwar German Literature/Film
GERM 367 (3) Topics in German Thought

- GERM 371 (3) Cultural Change and Evolution of German
 GERM 382 (3) Faust in European Literature

MAJOR CONCENTRATION IN GERMAN LANGUAGE AND LITERATURE (36 credits)

Required Courses (18 credits*)

- GERM 200 (6) German Language, Intensive Beginners'
 or GERM 202D1 (3) German Language, Beginners'
 and GERM 202D2(3) German Language, Beginners'
 GERM 300 (6) German Language, Intensive
 Intermediate
 or GERM 307D1 (3) German Language, Intermediate
 and GERM 307D2(3) German Language, Intermediate
 GERM 325 (6) German Language, Intensive Advanced

* Students with advanced standing in the language will substitute language courses with more advanced courses in language, culture or literature.

Complementary Courses (18 credits)

18 credits of courses in literature distributed across different periods chosen from the courses listed below*:

at least one 3-credit course in 20th Century:

- GERM 331 (3) Germany after Reunification
 GERM 354 (3) Literary Approach to Song
 GERM 360 (3) German Literature - 1890-1918
 GERM 361 (3) German Literature - 1918-1945
 GERM 362 (3) 20th Century Literature Topics
 GERM 363 (3) German Postwar Literature
 GERM 364 (3) German Culture: Gender and Society
 GERM 365 (3) Media Studies in German
 GERM 366 (3) Postwar German Literature/Film
 GERM 367 (3) Topics in German Thought

at least one 3-credit course in Classicism or Romanticism:

- GERM 450 (3) The Classical Period in German Literature
 GERM 451 (3) German Romanticism
 GERM 455 (3) Women of the Romantic Era

at least one 3-credit course from any other period:

- GERM 352 (3) German Literature in the 19th Century
 GERM 353 (3) 19th Century Literary Topics
 GERM 380 (3) 18th Century German Literature
 GERM 382 (3) Faust in European Literature
 GERM 412 (3) Heros, Lovers and Crusaders
 GERM 511 (3) Middle High German Literature
 GERM 561 (3) German Literature of the Baroque Period

9 credits selected from any of the literature courses above not already taken or from:

- GERM 330 (3) Landeskunde
 GERM 331 (3) Germany after Reunification
 GERM 400 (3) Interdisciplinary Seminar in Contemporary German Studies

* Courses on German literature or culture given in English may be substituted for any courses in the above lists, to a maximum of 6 credits.

MAJOR CONCENTRATION IN GERMAN LITERATURE AND CULTURE (36 credits)

Note: All German literature courses given in German have as pre-requisite a linguistic competence as acquired in GERM 325 or equivalent. Such equivalence will be established by the program adviser.

Complementary Courses (36 credits)

9 credits chosen from:

- GERM 331 (3) Germany after Reunification
 GERM 360 (3) German Literature - 1890-1918
 GERM 361 (3) German Literature - 1918-1945
 GERM 362 (3) 20th Century Literature Topics
 GERM 363 (3) German Postwar Literature

15 credits chosen from:

- GERM 352 (3) German Literature in the 19th Century
 GERM 353 (3) 19th Century Literary Topics
 GERM 380 (3) 18th Century German Literature
 GERM 412 (3) Heros, Lovers and Crusaders
 GERM 450 (3) The Classical Period in German Literature
 GERM 451 (3) German Romanticism
 GERM 455 (3) Women of the Romantic Era
 GERM 511 (3) Middle High German Literature
 GERM 561 (3) German Literature of the Baroque Period

12 credits chosen from:

- GERM 259 (3) Individual and Society: German Literature 1
 GERM 260 (3) Individual and Society: German Literature 2
 GERM 354 (3) Literary Approach to Song
 GERM 355 (3) Nietzsche and Wagner
 GERM 358 (3) Franz Kafka
 GERM 359 (3) Bertolt Brecht
 GERM 364 (3) German Culture: Gender and Society
 GERM 365 (3) Media Studies in German
 GERM 366 (3) Postwar German Literature/Film
 GERM 367 (3) Topics in German Thought
 GERM 371 (3) Cultural Change and Evolution of German
 GERM 382 (3) Faust in European Literature
 GERM 400 (3) Interdisciplinary Seminar in Contemporary German Studies

HONOURS PROGRAM IN GERMAN STUDIES (60 credits)

Required Courses (42 credits)

- GERM 200 (6) German Language, Intensive Beginners'
 GERM 300 (6) German Language, Intensive Intermediate
 GERM 325 (6) German Language, Intensive Advanced
 GERM 352 (3) German Literature in the 19th Century
 GERM 360 (3) German Literature - 1890 to 1918
 GERM 363 (3) German Postwar Literature
 GERM 450 (3) The Classical Period in German Literature
 GERM 451 (3) German Romanticism
 GERM 511 (3) Middle High German Literature
 GERM 575 (6) Honours Thesis

With permission of the adviser, students with advanced standing in German language will replace language courses for more advanced courses in language, culture or literature.

Complementary Courses (18 credits)

12 credits selected from:

- GERM 331 (3) Germany after Reunification
 GERM 353 (3) 19th Century Literary Topics
 GERM 361 (3) German Literature - 1918 to 1945
 GERM 362 (3) 20th Century Literature Topics
 GERM 365 (3) Media Studies in German
 GERM 380 (3) 18th Century German Literature
 GERM 400 (3) Interdisciplinary Seminar in Contemporary German Studies

6 credits selected from:

- GERM 259 (3) Individual & Society German Literature 1
 GERM 260 (3) Individual & Society German Literature 2
 GERM 336 (3) German Grammar Review
 GERM 354 *3) Literary Approach to Song
 GERM 355 (3) Nietzsche and Wagner
 GERM 358 (3) Franz Kafka
 GERM 359 (3) Bertolt Brecht
 GERM 364 (3) German Culture: Gender and Society
 GERM 367 (3) Topics in German Thought
 GERM 371 (3) Cultural Change and Evolution of German
 GERM 382 (3) Faust in European Literature
 GERM 397 (3) Individual Reading Course
 GERM 398 (3) Individual Reading Course
 GERM 561 (3) German Literature of the Baroque Period
 or other suitable courses in the Department or in other related disciplines and departments with the approval of adviser.

JOINT HONOURS PROGRAM – GERMAN STUDIES COMPONENT (36 credits)

Required Courses (21 credits)

GERM 200 (6) German Language, Intensive Beginners'
 GERM 300 (6) German Language, Intensive Intermediate
 GERM 325 (6) German Language, Intensive Advanced
 GERM 570 (3) Joint Honours Thesis

With permission of the adviser, students with advanced standing in German language will replace these courses for more advanced courses in language, culture or literature.

Complementary Courses (15 credits)

Selected from 400- to 500-level German literature and culture courses, from at least three centuries, with the approval of the adviser.

Joint Honours students must maintain a GPA of 3.30 in their program courses, and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

2.6 Humanistic Studies

MINOR CONCENTRATION IN HUMANISTIC STUDIES

(Expandable) (18 credits)

Required Courses (6 credits)

HMST 296 (3) Western Humanistic Tradition 1
 HMST 297 (3) Western Humanistic Tradition 2

Complementary Courses (12 credits)

Courses from the list published on the Humanistic Studies website will be taken in the following manner:

3 credits History of Fine Arts
 3 credits Social Science

and 6 credits, all of which must be at the 300-level or above as follows:

- to acquire a more extensive knowledge of any ONE of the areas listed above;
- to be used to construct individual interdisciplinary concentrations **with the permission of the Humanistic Studies Office.**

It is strongly recommended that this Minor Concentration be accompanied by Major and/or Minor Concentrations in literature and/or languages.

MAJOR CONCENTRATION IN HUMANISTIC STUDIES

(36 credits)

Required Courses (6 credits)

HMST 296 (3) Western Humanistic Tradition 1
 HMST 297 (3) Western Humanistic Tradition 2

Complementary Courses (30 credits)

Courses from the list published on the Humanistic Studies website will be taken in the following manner:

6 credits from the Humanities
 6 credits History of Fine Arts
 6 credits Social Science
 3 credits Natural Science

and 9 credits, all of which must be at the 300-level or above as follows:

- to be used to acquire a more extensive knowledge of any ONE of the areas listed above;
- to be used to construct individual interdisciplinary concentrations **with the permission of the Humanistic Studies Office.**

It is strongly recommended that this Major Concentration be accompanied by Major and/or Minor Concentrations in literature and/or languages.

2.7 International Development Studies

MINOR CONCENTRATION IN INTERNATIONAL DEVELOPMENT STUDIES (18 credits) (Expandable)

Required Courses (6 credits)

ECON 208 (3) Microeconomic Analysis & Applications
 ECON 313 (3) Economic Development 1

Complementary Courses (12 credits)

Group A – a minimum of 3 credits selected from:

ANTH 212 (3) Anthropology of Development
 GEOG 216 (3) Geography of the World Economy
 POLI 227 (3) Developing Areas/Introduction
 SOCI 254 (3) Development and Underdevelopment

Group B – the remaining credits to be selected from the IDS Complementary Course list,

with the addition of ECON 314 Economic Development 2.

At least 9 of the 18 credits must be at the 300 level or above.

MAJOR CONCENTRATION IN INTERNATIONAL DEVELOPMENT STUDIES (36 credits)

Required Courses (12 credits)

ECON 208 (3) Microeconomic Analysis & Applications
 ECON 313 (3) Economic Development 1
 ECON 314 (3) Economic Development 2
 INTD 497 (3) Research Seminar on International Development

Complementary Courses (24 credits)

Group A – a minimum of 6 credits selected from:

ANTH 212 (3) Anthropology of Development
 GEOG 216 (3) Geography of the World Economy
 POLI 227 (3) Developing Areas/Introduction
 SOCI 254 (3) Development and Underdevelopment

Group B – the remaining credits to be selected from the IDS Complementary Course list; at least 12 credits must be taken from one of the three categories.

At least 18 of the 36 credits must be at the 300 level or above.

HONOURS PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (57 credits)

Required Courses (18 credits)

ECON 208 (3) Microeconomic Analysis & Applications
 ECON 313 (3) Economic Development 1
 ECON 314 (3) Economic Development 2
 INTD 492 (6) IDS Thesis
 INTD 497 (3) Research Seminar on International Development

Complementary Courses (39 credits)

No more than 21 credits can be taken in any one discipline.

Group A – at least 6 credits selected from:

ANTH 212 (3) Anthropology of Development
 GEOG 216 (3) Geography of the World Economy
 POLI 227 (3) Developing Areas/Introduction
 SOCI 254 (3) Development and Underdevelopment

Group B – 24 to 33 credits to be selected from the IDS Complementary Course list; at least 12 credits must be taken from one of the three categories.

Group C – 0 to 9 credits of Introductory and/or Intermediate Language Training.

Students are strongly encouraged to master a language appropriate to an area of the developing world in which they have a particular interest.

Among the languages that are included in this option are Arabic, Chinese, French, Korean, Portuguese, Spanish, and Urdu. Other language options can be approved by the Honours Adviser.

Students who already have appropriate language capability, or who have distinct interests not likely to necessitate such training, may substitute an additional 9 credits from the Group B Complementary Courses.

At least 30 of the 57 credits must be at the 300 level or above. Nine credits at the 400 level are required.

JOINT HONOURS PROGRAM – INTERNATIONAL DEVELOPMENT STUDIES COMPONENT (36 credits)

Required Courses (12 credits)

ECON 208	(3)	Microeconomic Analysis & Applications
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
INTD 497	(3)	Research Seminar on International Development

Complementary Courses (24 credits)

No more than 15 credits can be taken in any one discipline.

Group A – at least 6 credits selected from:

ANTH 212	(3)	Anthropology of Development
GEOG 216	(3)	Geography of the World Economy
POLI 227	(3)	Developing Areas/Introduction
SOCI 254	(3)	Development and Underdevelopment

Group B – 12 to 15 credits to be selected from the IDS Complementary Course list; at least 12 credits must be taken from one of the three categories.

Thesis - 3 to 6 credits

Students may either do a 6-credit thesis in IDS, or divide the thesis between INTD 491 and the other department.

INTD 491	(3)	Independent Reading and Research
INTD 492	(6)	IDS Thesis

At least 24 of the 36 credits must be at the 300 level or above. Six credits at the 400 level are required.

IDS COMPLEMENTARY COURSE LIST FOR MINOR, MAJOR, HONOURS, JOINT HONOURS

Development Theory and World View

ANTH 341	(3)	Women in Cross-Cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 349	(3)	Transformation of Developing Countries
ANTH 439	(3)	Theories of Development
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	The Religions of East Asia
RELG 371	(3)	Ethics of Violence/Non-Violence

Up to 6 credits of Group A courses (not previously counted) may be used in this category.

Regions

ANTH 321	(3)	Peoples and Cultures of Africa
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Peoples of Central and South America
ANTH 328	(3)	Peoples and Cultures of South-East Asia
ANTH 329	(3)	Modern Chinese Society and Change
ECON 411	(3)	Economic Development: A World Area
ENGL 321	(3)	Caribbean Fiction
FREN 313	(3)	Francophonie 3
HIST 197	(3)	Race in Latin America
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 309	(3)	History of Latin America to 1825
HIST 338	(3)	China in Revolution 2: 1921-1997

HIST 360	(3)	History of Latin America Since 1825
HIST 374	(3)	West Africa Since 1800
HIST 381	(3)	Health and Disease in Colonial Africa
HIST 382	(3)	History of South Africa
HIST 419	(3)	Central America
ISLA 411	(3)	History of the Middle East, 1918-1945
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Developing Areas/South Asia
POLI 323	(3)	Developing Areas/East Asia
POLI 324	(3)	African Politics
POLI 340	(3)	Developing Areas/Arab World
POLI 341	(3)	Foreign Policy: The Middle East
POLI 349	(3)	Foreign Policy: Asia
SOCI 366	(3)	Social Change in the Caribbean

Development Policies and Practices

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGRI 411	(3)	International Agriculture
ANTH 227	(3)	Medical Anthropology
ANTH 324	(3)	Economic Anthropology
ANTH 418	(3)	Environment and Development
ANTH 445	(3)	Property and Land Tenure
ECON 412	(3)	Topics in Economic Development 1
ECON 416	(3)	Topics in Economic Development 2
GEOG 404	(3)	Environmental Management 2 (Panama Program only)
GEOG 407	(3)	Contemporary Issues in Geography
GEOG 408	(3)	Geography of Unequal Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 498	(3)	Humans in Tropical Environments (Panama Program only)
GEOG 510	(3)	Humid Tropical Environments
INTD 490	(3)	Development Field Research
MGCR 382	(3)	International Business
MIME 524	(3)	Mineral Resource Economics
NUTR 501	(3)	Nutrition in Developing Countries
ORGB 380	(3)	Cross-Cultural Management
POLI 300D1	(3)	Developing Areas/Revolution
POLI 300D2	(3)	Developing Areas/Revolution
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 445	(3)	IPE: North-South Relations
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 522	(3)	Seminar: Developing Areas
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 335	(3)	Sociology of State Repression
SOCI 418	(3)	Human Rights and Humanitarianism
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Sociology of Developing Societies
SOCI 590	(3)	Conflict and State Breakdown
SWRK 400	(3)	Policy and Practice for Refugees
SWRK 532	(3)	International Social Welfare

2.8 Italian Studies

MINOR CONCENTRATION IN ITALIAN STUDIES

(18 credits) (Expandable)

Students with advanced standing in the language must substitute language courses with courses from groups B and C.

Complementary Courses (18 credits)

chosen from the following three groups:

- 0 - 12 credits Group A – Basic Language Courses.
- 6 - 18 credits Group B – Courses taught in Italian.
- 0 - 6 credits Group C – Courses taught in English.

MINOR CONCENTRATION IN ITALIAN CIVILIZATION

(18 credits) (Expandable)

Students with advanced standing in the language must substitute language courses with courses from groups B, C and D.

Complementary Courses (18 credits)

0 - 12 credits chosen from Group A – Basic Language Courses.
 0 - 12 credits chosen from Group B – Courses taught in Italian.
 6 - 18 credits chosen from Group C – Courses taught in English.
 0 - 6 credits chosen from Group D – Courses offered in other departments.

MAJOR CONCENTRATION IN ITALIAN STUDIES (36 credits)

This program is designed to enable students with no previous knowledge of Italian to pursue a Major Concentration by allowing them to take some literature and culture courses in English translation while acquiring language competency in other courses (including some literature courses taught in the original). All students wishing to register for the Major Concentration in Italian Studies are strongly urged to meet regularly with a departmental adviser.

Complementary Courses (36 credits)

6 - 12 credits chosen from Group A – Basic Language Courses.
 Students with no knowledge of the Italian language must take 12 credits.
 Students arriving with some knowledge of the language may take 6 credits (ITAL 210D1/ITAL 210D2 or ITAL 215D1/ITAL 215D2).
 Students arriving with competency in the language may substitute courses from Groups B, C, and D for Basic Language Courses.
 All students with some background must consult with the Department for proper placement.
 18 - 30 credits chosen from courses at the 300-level or above as listed in Group B – Courses taught in Italian and Group C – Courses taught in English.
 0 - 6 credits chosen from Group D – Courses offered in other departments.

MAJOR CONCENTRATION IN ITALIAN LANGUAGE AND LITERATURE (36 credits)**Complementary Courses** (36 credits)

0 - 12 credits chosen from Group A – Basic Language Courses.
 18 - 36 credits chosen from courses at the 300-level or above as listed in Group B – Courses taught in Italian.
 Note: ITAL 300 may not be taken by students who have taken 132-306.
 0 - 18 credits chosen from courses at the 300-level or above as listed in Group C – Courses taught in English.
 0 - 6 credits chosen from Group D – Courses offered in other departments.

HONOURS PROGRAM IN ITALIAN STUDIES (54 credits)

Students with advanced standing in the language must substitute language courses with courses from groups B, C and D.

Required Courses (6 credits)

ITAL 341 (3) The Art of Essay Writing
 ITAL 470 (3) Honours Thesis

Complementary Courses (48 credits)

48 credits, 9 of which must be at the 400 level or above.
 0 - 12 credits from Group A – Basic Language Courses.
 30 - 42 credits Group B – Courses taught in Italian.
 0 - 9 credits combined from Group C – Courses taught in English and Group D – Courses offered in other departments.

JOINT HONOURS PROGRAM – ITALIAN STUDIES COMPONENT (36 credits)

Students with advanced standing in the language must substitute language courses with courses from groups B, C and D.

Required Courses (6 credits)

ITAL 341 (3) The Art of Essay Writing
 ITAL 470 (3) Honours Thesis

Complementary Courses (30 credits)

30 credits, 6 of which must be at the 400 level or above:
 0 - 12 credits from Group A – Basic Language Courses.
 12 - 30 credits from Group B – Courses taught in Italian.
 0 - 18 credits combined from Group C – Courses taught in English and Group D – Courses offered in other departments.

ITALIAN STUDIES COURSE GROUPS*Group A – Basic Language Courses:*

ITAL 205D1 (3) Italian for Beginners
 ITAL 205D2 (3) Italian for Beginners
 ITAL 206 (6) Beginners' Italian Intensive
 ITAL 210D1 (3) Elementary Italian
 (may not be taken by students who have taken ITAL 205D1/ ITAL 205D2 or ITAL 206)
 ITAL 210D2 (3) Elementary Italian
 (may not be taken by students who have taken ITAL 205D1/ ITAL 205D2 or ITAL 206)
 ITAL 215D1 (3) Intermediate Italian
 (may not be taken by students who have taken ITAL 210D1/ ITAL 210D2)
 ITAL 215D2 (3) Intermediate Italian
 (may not be taken by students who have taken ITAL 210D1/ ITAL 210D2)
 ITAL 216 (6) Intermediate Italian Intensive

Group B – Courses taught in Italian:

ITAL 300 (3) Italian Literary Composition
 ITAL 306 (6) Advanced Reading and Composition
 ITAL 307 (3) Topics in Italian Studies
 ITAL 308 (3) Business Italian
 ITAL 311 (3) Twentieth Century Texts
 ITAL 320 (3) Manzoni
 ITAL 325 (3) Masterpieces of Italian Literature 1
 ITAL 326 (3) Masterpieces of Italian Literature 2
 ITAL 330 (3) Commedia dell'arte
 ITAL 331 (3) Drama from Goldoni to Pirandello
 ITAL 341 (3) The Art of Essay Writing
 ITAL 356 (3) Medieval Courses on Love
 ITAL 360 (3) Contemporary Italian Prose
 ITAL 368 (3) Literature on the Renaissance
 ITAL 370 (3) Italian Poetry and Music
 ITAL 376 (3) Medieval Romance in Italy
 ITAL 380 (3) Verga and Verismo
 ITAL 383 (3) Women Writers
 ITAL 410 (3) Modern Italian Literature
 ITAL 411 (3) Pirandello
 ITAL 415 (3) Poetry of the 20th Century
 ITAL 420 (3) Leopardi and Italian Romanticism
 ITAL 435 (3) Ariosto's Orlando Furioso
 ITAL 436 (3) Tasso's Gerusalemme liberata
 ITAL 461 (3) Dante: The Divine Comedy
 ITAL 530 (3) 17th and 18th Century Culture
 ITAL 542 (3) Italy's Regional Literatures
 ITAL 551 (3) Boccaccio and the Italian Novella
 ITAL 562 (3) Petrarch and Petrarchism
 ITAL 563 (3) Topics in 13th-16th Century Literature
 ITAL 590 (3) Italian Literary Criticism

Group C – Courses taught in English:

ITAL 199 (3) FYS: Italy's Literature in Context
 ITAL 355 (3) Dante and The Middle Ages
 ITAL 361 (3) Italian Prose after 1945

ITAL 363	(3)	Gender, Literature and Society
ITAL 365	(3)	The Italian Renaissance
ITAL 375	(3)	Cinema and Society in Contemporary Italy
ITAL 379	(3)	Italy and European Romanticism
ITAL 385	(3)	The Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar on Italian Culture
ITAL 412	(3)	Pirandello and European Theatre
ITAL 416	(3)	Twentieth Century Topics
ITAL 464	(3)	Machiavelli
ITAL 477	(3)	Italian Cinema and Video

Group D – Courses offered in other departments:

ANTH 337	(3)	Mediterranean Society and Culture
ARTH 223	(3)	Early Renaissance Art in Italy
ARTH 324	(3)	High Renaissance Art in Italy
ARTH 325	(3)	Venetian High Renaissance Painting
ARTH 332	(3)	Italian Renaissance Architecture
CLAS 208	(3)	Roman Literature and Society
CLAS 307	(3)	Roman Comedy
CLAS 404	(3)	Classical Tradition
HIST 345	(3)	History of the Italian Renaissance
HIST 380	(3)	Western Europe in the Middle Ages
HIST 398	(3)	Topics in Italian History
HIST 401	(3)	Topics in Medieval Culture and Society
MUHL 387	(3)	Opera from Mozart to Puccini
POLI 414	(3)	Society and Politics in Italy
SOCI 485	(3)	Society, Economy and Polity in Italy

2.9 Linguistics

HONOURS PROGRAM IN LINGUISTICS (60 credits)

Required Courses (27 credits)

LING 201	(3)	Introduction to Linguistics
LING 230	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 370	(3)	Introduction to Semantics and Pragmatics
LING 371	(3)	Syntax 1
LING 440	(3)	Morphology
LING 480D1	(3)	Honours Thesis
LING 480D2	(3)	Honours Thesis
PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (33 credits)

21 credits in Linguistics:

15 credits at the 400/500 level, 3 of which must be selected from:

LING 425	(3)	Historical Linguistics
LING 450	(3)	Linguistic Theory and Processing
LING 451	(3)	Acquisition of Phonology
LING 455	(3)	Second Language Syntax
LING 520	(3)	Sociolinguistics 2
LING 521	(3)	Dialectology
LING 525	(3)	Topics in Historical Linguistics
LING 555	(3)	Language Acquisition 2
LING 590	(3)	Introduction to Neurolinguistics

6 credits others, usually at the 200/300 level.

12 credits in related fields to be selected from the following list:

Computer Science

COMP 202	(3)	Introduction to Computing 1
COMP 203	(3)	Introduction to Computing 2
COMP 530	(3)	Formal Languages

French Language and Literature

FREN 231	(3)	Linguistique française
FREN 336	(3)	La langue française
FREN 434	(3)	Sociolinguistique du français

Language

Any course in language (other than the student's native language)

- literature courses are not acceptable.

Mathematics

MATH 240	(3)	Discrete Structures and Computing
MATH 328	(3)	Computability and Mathematical Linguistics

Philosophy

Any course in logic or philosophy of science.

PHIL 304	(3)	Chomsky
PHIL 306	(3)	Philosophy of Mind
PHIL 415	(3)	Philosophy of Language
PHIL 515	(3)	Seminar: Philosophy of Language

Psychology

PSYC 311	(3)	Human Cognition and the Brain
PSYC 316	(3)	Psychology of Deafness
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 343	(3)	Language Learning in Children
PSYC 530	(3)	Applied Topics in Deafness
PSYC 532	(3)	Cognitive Science
PSYC 561	(3)	Methods: Developmental Psycholinguistics

Statistics

Any course in statistics (from any department).

A B⁺ average (program GPA 3.30) is required to maintain Honours standing in Linguistics and a minimum grade of B⁺ must be obtained in four out of five of the following courses LING 230, LING 331, LING 370, LING 371, LING 440, as well as in the Honours Thesis, LING 480D1/LING 480D2. As per Faculty of Arts rules, a minimum CGPA of 3.00 must be maintained. The requirement for First Class Honours is a CGPA of 3.50 and a minimum grade of A- in the Honours Thesis. Inquiries may be addressed to the departmental office or to the adviser for undergraduate studies.

JOINT HONOURS PROGRAM – LINGUISTICS COMPONENT (36 credits)

Required Courses (24 credits)

LING 201	(3)	Introduction to Linguistics
LING 230	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 370	(3)	Introduction to Semantics and Pragmatics
LING 371	(3)	Syntax 1
LING 440	(3)	Morphology
LING 481D1	(1.5)	Joint Honours Thesis
LING 481D2	(1.5)	Joint Honours Thesis
PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (12 credits)

9 credits in Linguistics courses at the 400/500 level.

3 credits in Linguistics courses (normally at the 200/300 level).

A B⁺ average (program GPA 3.30) is required to maintain Joint Honours standing in Linguistics and a minimum grade of B⁺ must be obtained in four out of five of the following courses LING 230, LING 331, LING 370, LING 371, LING 440, as well as in the Joint Honours Thesis, LING 481D1/LING 481D2. As per Faculty of Arts rules, a minimum CGPA of 3.00 must be maintained. The requirement for First Class Honours is a CGPA of 3.50 and a minimum grade of A- in the Joint Honours Thesis. Inquiries may be addressed to the departmental office or to the adviser for undergraduate studies.

2.10 Middle East Studies

JOINT HONOURS PROGRAM – MIDDLE EAST STUDIES COMPONENT (36 credits)

Complementary Courses (36 credits)

Language:

12 credits (2 levels) in one Middle East language (in the case of Arabic, the first two levels involve 15 credits. The extra 3 credits will be counted toward the remainder of the program.)

Middle East Studies:

24 credits (21 if Arabic has been chosen), distributed as follows:

History,

6 - 9 credits, a minimum of 6 credits from the following courses:

- ISLA 410 (3) History of the Middle East 1798-1918
 ISLA 411 (3) History of the Middle East 1918-1945
 ISLA 510D1 (3) History: Islamic Civilization - Classical
 ISLA 510D2 (3) History: Islamic Civilization - Classical
 ISLA 511D1 (3) History: Islamic Civilization - Mediaeval Era
 ISLA 511D2 (3) History: Islamic Civilization - Mediaeval Era

Religion and Philosophy,

6 - 9 credits, a minimum of 6 credits from the following courses:

- ISLA 505 (3) Islam: Origin and Early Developments
 ISLA 506 (3) Islam: Later Developments
 ISLA 531D1 (3) Survey Development of Islamic Thought
 ISLA 531D2 (3) Survey Development of Islamic Thought

Social Science,

6 - 9 credits to be selected from:

- POLI 340 (3) Developing Areas/Middle East
 POLI 341 (3) Foreign Policy: The Middle East
 POLI 347 (3) Arab-Israeli Conflict, Crisis, Peace
 POLI 437 (3) Politics in Israel
 or ANTH 340 (3) Middle Eastern Society and Culture

Independent Research/Honours Seminar,

3 credits selected from:

- MEST 496 (3) Independent Reading and Research
 MEST 495 (3) Middle East Studies: Research Seminar

Joint Honours students must maintain a program GPA of 3.30 in their Middle East Studies courses. According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00.

2.11 Psychology

MINOR CONCENTRATION IN PSYCHOLOGY (18 credits) (Expandable)

Students registered in a Bachelor of Arts Program in another department may pursue a Minor Concentration in Psychology. This Minor Concentration is expandable for students who may wish to transfer into a Major Concentration in Psychology at a later date.

Recommended background:

Students are advised to complete a course in Introductory Psychology at the collegial or freshman level. Students who have not previously completed CEGEP Psychology 350-101 or 350-102 or equivalent are required to complete PSYC 100 during the first year of study at McGill.

Complementary Courses (18 credits)

6 credits selected from:

- PSYC 204 (3) Introduction to Psychological Statistics
 PSYC 211 (3) Intro Behavioural Neuroscience
 PSYC 212 (3) Perception
 PSYC 213 (3) Cognition
 PSYC 215 (3) Social Psychology

12 credits in Psychology at the 300 level or above.

MINOR CONCENTRATION IN BEHAVIOURAL SCIENCE

(18 credits) (Non-expandable) (Open only to students registered in the Major Concentration in Psychology)

Students who wish to go on to graduate training in Psychology, and those who may wish to apply for membership of the Ordre des Psychologues du Québec (once the additional graduate requirements of the Ordre have been completed), are advised to take the following supplementary Minor Concentration in Behavioural Science. Note that this counts as a *second* Minor Concentration, and is open only to students registered in the Major Concentration in Psychology. A first Minor Concentration must also be completed in a discipline other than Psychology.

Complementary Courses (18 credits)

- 3 credits in Psychology from List A
 3 credits in Psychology from List B
 3 credits in Psychology at the 400 or 500 level

9 credits at the 300 level or above in one of the following disciplines: Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCl)

MAJOR CONCENTRATION IN PSYCHOLOGY (36 credits)

Recommended Background:

Students planning to pursue a Major Concentration or Honours program in Psychology are advised to complete courses in Introductory Psychology and Human Biology at the collegial level.

Students who have not previously completed Psychology 350-101 or 350-102 in CEGEP will be required to register for PSYC 100 during their U1 year. Students who have not completed one Biology 101-301, 101-401, 101-911 or 101-921 in CEGEP will be required to complete BIOL 115 (or if they prefer BIOL 111 or BIOL 112) during their U1 year.

Students who have completed either Mathematics 201-307 or 201-337 or equivalent, or the combination of Quantitative Methods 360-300 with Mathematics 201-300, and who obtained a minimum grade of 75%, will be exempt from PSYC 204. These students will replace this requirement with three credits at the 300 level in one of the following disciplines: Psychology (PSYC), Anthropology (ANTH), Linguistics (LING) or Sociology (SOCl).

Required Courses (18 credits)

- PSYC 204 (3) Introduction to Psychological Statistics
 PSYC 211 (3) Intro Behavioural Neuroscience
 PSYC 212 (3) Perception
 PSYC 213 (3) Cognition
 PSYC 215 (3) Social Psychology
 PSYC 305 (3) Statistics for Experimental Design

Complementary Courses (18 credits)

- 3 credits in Psychology from List A
 3 credits in Psychology from List B
 12 credits in Psychology, at least 6 at the 400 or 500 level

Note: Students who wish to apply to the Honours Program in Psychology must complete the following courses in their U1 year to be eligible for admission: PSYC 204, PSYC 211, PSYC 212, PSYC 213, PSYC 215. Students who have been exempted from PSYC 204 are advised to complete PSYC 305 in U1. All students must complete a minimum of 27 graded credits in U1 to be eligible for admission to the Honours Program.

B.A. HONOURS PROGRAM IN PSYCHOLOGY (54 credits)

Students should note that awarding of the Honours degree will depend on both cumulative grade point average and a minimum grade of B on PSYC 380D1/PSYC 380D2, PSYC 481D1/PSYC 481D2, PSYC 482, PSYC 483. "First Class Honours" is awarded to students who obtain a minimum cumulative grade point average of 3.50 and a minimum CGPA of 3.50 in the four Honours courses of which 12 out of 18 credits received at least an A- grade. "Honours" is awarded to students with a minimum cumulative grade point average of 3.00 and a minimum program GPA of 3.00 on each of the four Honours courses. Moreover, the awarding of the Honours degree normally requires completion of two full years of study, U2 and U3, in the Psychology Department. Exceptionally good students may be admitted for the U3 year only on the basis of their marks and research experience. These students will not be required to take the U2 course PSYCH 380D1/PSYCH 380D2 from the list below. They will replace these 6 credits with 3 additional credits from List A and 3 from List B.

U1 Required Courses (15 credits)

- PSYC 204 (3) Introduction to Psychological Statistics
 PSYC 211 (3) Intro Behavioural Neuroscience
 PSYC 212 (3) Perception
 PSYC 213 (3) Cognition
 PSYC 215 (3) Social Psychology

Note: PSYC 100 may be taken as a corequisite with these basic courses.

U1 or U2 Required Course (3 credits)

PSYC 305 (3) Statistics for Experimental Design

U2 Required Courses (6 credits)

PSYC 380D1 (3) Honours Research Project and Seminar

PSYC 380D2 (3) Honours Research Project and Seminar

U3 Required Courses (12 credits)

PSYC 481D1 (3) Honours Thesis Research

PSYC 481D2 (3) Honours Thesis Research

PSYC 482 (3) Advanced Honours Seminar 1

PSYC 483 (3) Advanced Honours Seminar 2

Complementary Courses (18 credits)

6 credits in Psychology from List A

6 credits in Psychology from List B

6 credits at the 300 level or above in one of the following disciplines: Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCL)

List A**(Behavioural Neuroscience, Cognition and Quantitative Methods)**

- PSYC 301 (3) Learning
PSYC 308 (3) Behavioural Neuroscience 1
PSYC 310 (3) Human Intelligence
PSYC 311 (3) Human Cognition and the Brain
PSYC 317 (3) Genes and Behaviour
PSYC 318 (3) Behavioural Neuroscience 2
PSYC 334 (3) Computer Simulation - Psychological Processes
PSYC 335 (3) Formal Models: Psychological Processes
PSYC 336 (3) Measurement of Psychological Processes
PSYC 340 (3) Psychology of Language
PSYC 341 (3) Psychology of Bilingualism
PSYC 342 (3) Hormones and Behaviour
PSYC 352 (3) Laboratory in Cognitive Psychology
PSYC 353 (3) Laboratory in Human Perception
PSYC 403 (3) Modern Psychology in Historical Perspective
PSYC 406 (3) Psychological Tests and Measurements
PSYC 410 (3) Special Topics in Neuropsychology
PSYC 413 (3) Cognitive Development
PSYC 427 (3) Sensorimotor Behaviour
PSYC 451 (3) Human Factors Research and Techniques
PSYC 470 (3) Memory and Brain
PSYC 472 (3) Scientific Thinking and Reasoning
PSYC 503 (3) Computational Psychology
PSYC 505 (3) The Psychology of Pain
PSYC 510 (3) Statistical Analysis of Tests
PSYC 522 (3) Neurochemical Basis of Behaviour
PSYC 526 (3) Advances in Visual Perception
PSYC 529 (3) Music Cognition
PSYC 531 (3) Structural Equation Models
PSYC 532 (3) Cognitive Science
PSYC 536 (3) Correlational Techniques

List B (Social, Health and Developmental Psychology)

- PSYC 304 (3) Child Development
PSYC 316 (3) Psychology of Deafness
PSYC 331 (3) Inter-Group Relations
PSYC 332 (3) Introduction to Personality
PSYC 333 (3) Personality and Social Psychology
PSYC 337 (3) Intro: Abnormal Psychology 1
PSYC 338 (3) Intro: Abnormal Psychology 2
PSYC 343 (3) Language Acquisition in Children
PSYC 351 (3) Research Methods in Social Psychology
PSYC 408 (3) Principles of Cognitive Behaviour Therapy
PSYC 412 (3) Deviations in Child Development
PSYC 414 (3) Social Development
PSYC 416 (3) Advanced Topics in Child Development
PSYC 429 (3) Health Psychology
PSYC 436 (3) Human Sexuality and its Problems
PSYC 471 (3) Human Motivation
PSYC 473 (3) Social Cognition and the Self

- PSYC 474 (3) Interpersonal Relationships
PSYC 491D1 (3) Advanced Study: Behavioural Disorders
and PSYC 491D2 (3) Advanced Study: Behavioural Disorders
PSYC 511 (3) Infant Competence
PSYC 530 (3) Applied Topics in Deafness
PSYC 533 (3) International Health Psychology
PSYC 534 (3) Community Psychology
PSYC 534 (3) Community Psychology
PSYC 535 (3) Advanced Topics in Social Psychology

Unclassified Courses

- PSYC 450D1 (3) Research Project and Seminar
and PSYC 450D2 (3) Research Project and Seminar
PSYC 492 (3) Seminar in Special Topics
PSYC 493 (3) Seminar in Special Topics
PSYC 495 (3) Psychology Research Project

2.12 Science for Arts Students**MINOR CONCENTRATION IN SCIENCE FOR ARTS STUDENTS** (18 credits)**Required Courses** (6 credits)

- BIOL 210 (3) Perspectives of Science (in U1)
PSYC 472 (3) Scientific Thinking and Reasoning (in U3)

Complementary Courses (12 credits)

12 credits taken in *one* of the disciplinary areas given below. Where suggested courses have prerequisites at the 200 or 300 level associated with them, credit for the associated prerequisites *may also be counted* as part of the 12 credits.

Prerequisites at the 100 level cannot be counted towards the Minor Concentration.

With the prior written approval of the Program Director, an appropriate alternative set of courses may be substituted.

DISCIPLINARY AREAS**Atmospheric and Oceanic Sciences**

Students should note that MATH 133 (or its CEGEP equivalent) is not essential as a prerequisite for these courses.

- ATOC 210 (3) Introduction to Atmospheric Science
ATOC 214 (3) Intro to the Physics of the Atmosphere
ATOC 215 (3) Weather Systems and Climate
ATOC 220 (3) Introduction to Oceanic Sciences

Biochemistry

Prerequisites which cannot be counted towards the Minor Concentration: BIOL 111 and BIOL 112 plus CHEM 120 (or CHEM 121) or their CEGEP equivalents.

12 credits taken from the following courses and their associated 200 or 300-level prerequisites:

- ANAT 262 (3) Introductory Molecular & Cell Biology
BIOC 212 (3) Molecular Mechanisms of Cell Function
(Prerequisite: BIOL 200)
BIOL 200 (3) Molecular Biology
CHEM 212 (4) Organic Chemistry 1
Students who have completed CHEM 212 and CHEM 222 or their CEGEP equivalents may take one or both of the following:
BIOC 311 (3) Metabolic Biochemistry (Prerequisite: BIOL 200, BIOL 201 or BIOC 212, CHEM 222)
BIOC 312 (3) Biochemistry of Macromolecules (Prerequisite: BIOC 311, BIOL 200, BIOL 201 or BIOC 212)

Biology

Students interested in Biology can choose between two streams. One is oriented towards cell and molecular biology and leads to upper level courses in developmental biology, human genetics, molecular biology, or allied fields. The other is oriented more to organismal biology and leads to upper level courses in biodiversity, ecology, sociobiology, neurobiology, behaviour, or conservation biology. See the departmental Undergraduate Secretary to

arrange a session for counsel on choice of courses above the 200-level.

Prerequisites which cannot be counted towards the Minor Concentration: BIOL 111 and BIOL 112 plus CHEM 120 (or CHEM 121) or their CEGEP equivalents.

Cell and Molecular Stream:

Note: CHEM 212 or its CEGEP equivalent is prerequisite to this stream.

BIOL 200 (3) Molecular Biology
BIOL 201 (3) Cell Biology & Metabolism (Prerequisite: BIOL 200)

BIOL 202 (3) Basic Genetics (Prerequisite: BIOL 200)
plus a selected subset of these or related upper level courses:
BIOL 300 (3) Molecular Biology of the Gene (Prerequisite: BIOL 200, BIOL 201)

BIOL 303 (3) Developmental Biology (Prerequisite: BIOL 200, BIOL 201)

Organismal Stream:

Students choosing this disciplinary area must obtain the permission of the instructors in BIOL 205 and additionally sit in on the six lectures in neurobiology given in BIOL 201, which are coordinated with those in BIOL 205.

Note: CHEM 212 or its CEGEP equivalent is prerequisite to this stream.

BIOL 205 (3) Biology of Organisms (Prerequisite: BIOL 200, BIOL 208)

BIOL 304 (3) Evolution (Prerequisite: BIOL 205 or BIOL 208 or ENVR 202)

plus a selected subset of these or related upper level courses:

BIOL 208 (3) Introduction to Ecology
BIOL 305 (3) Diversity of Life (Prerequisite: BIOL 205 or BIOL 208 or ENVR 202)

BIOL 306 (3) Neurobiology and Behaviour (Prerequisite: BIOL 201, BIOL 205)

BIOL 307 (3) Behavioural Ecology/Sociobiology (Prerequisite: BIOL 205, BIOL 208 or permission)

BIOL 465 (3) Conservation Biology

Chemistry

Prerequisites which cannot be counted towards the Minor Concentration: CHEM 120 (or CHEM 121) or their CEGEP equivalents.

The Department also strongly encourages students to take one or more courses involving a laboratory because the science of chemistry is rooted in laboratory experience.

Note: CHEM 212 or its CEGEP equivalent is prerequisite to all 200-level or higher courses.

CHEM 150 (3) World of Chemistry: Food
or CHEM 160 (3) World of Chemistry: Technology
or CHEM 170 (3) World of Chemistry: Drugs
or CHEM 180 (3) World of Chemistry: Environment
CHEM 201 (3) Modern Inorganic Chemistry 1
CHEM 203 (3) Survey of Physical Chemistry
or CHEM 204 (3) Physical Chemistry/Biological Sciences 1

CHEM 212 (4) Organic Chemistry 1
CHEM 222 (4) Organic Chemistry 2 (Prerequisite: CHEM 212)

CHEM 257D1 (2) Analytical Chemistry
CHEM 257D2 (2) Analytical Chemistry
CHEM 301 (3) Modern Inorganic Chemistry 2
CHEM 302 (3) Organic Chemistry 3 (Prerequisite: CHEM 212, CHEM 222)

CHEM 350 (3) Earth, Air, Fire, Water (Prerequisite: CHEM 212, CHEM 204)

Computer Science

[Students in any Minor or Major Concentration or Honours Program in Computer Science cannot choose this disciplinary area.]

Prerequisites which cannot be counted towards the Minor Concentration: MATH 139 or MATH 140, MATH 141, and MATH 133 and COMP 102 or their CEGEP equivalents.

A selection of courses should be taken from:

COMP 202 (3) Introduction to Computing 1
COMP 203 (3) Introduction to Computing 2 (Prerequisite: COMP 202)
COMP 250 (3) Introduction to Computer Science (Major and Honours)
COMP 251 (3) Data Structures and Algorithms (Prerequisite: COMP 250 or COMP 203)

plus some of the following courses:

COMP 273 (3) Introduction to Computer Systems (Prerequisite: COMP 202)
COMP 302 (3) Programming Languages and Paradigms (Prerequisite: COMP 203 or COMP 250)

Earth and Planetary Sciences

A combination of EPSC 210, EPSC 212, and one or more of EPSC 200, EPSC 201, and EPSC 243 provides a grounding in these inter-related disciplines in preparation for more specialized courses which follow:

EPSC 200 (3) The Terrestrial Planets
EPSC 201 (3) Understanding Planet Earth
EPSC 203 (3) Structural Geology 1
EPSC 205 or (3) Astrobiology
ANAT 205
EPSC 210 (3) Introduction to Mineralogy
EPSC 212 (3) Introductory Petrology (Prerequisite: EPSC 210)
EPSC 220 (3) Principles of Geochemistry (Prerequisite: EPSC 201, EPSC 210)
EPSC 231C (3) Field School 1 (Prerequisite: EPSC 222)
EPSC 233 (3) Earth and Life History
EPSC 243 (3) Environmental Geology
EPSC 320 (3) Elementary Earth Physics (Prerequisite: EPSC 222)
EPSC 334 (3) Invertebrate Paleontology and Evolution
EPSC 425 (3) Sediments to Sequences (Prerequisite: EPSC 210, EPSC 212)

Geography

[Students in any Minor or Major Concentration or Honours Program in Geography cannot choose this disciplinary area.]

Geography advisers recommend including some preparation in chemistry, statistics and calculus for study in this area even if formal prerequisites are not in place. A selection of courses should be taken from:

GEOG 203 (3) Environmental Systems
GEOG 205 (3) Global Change: Past, Present and Future
GEOG 272 (3) Landforms & Environmental Systems
GEOG 305 (3) Geography of Soils (Prerequisite: GEOG 203)
GEOG 321 (3) Climatic Environments (Prerequisite: GEOG 203 or ATOC 210 or permission.)
GEOG 322 (3) Environmental Hydrology (Prerequisite: GEOG 203 or equivalent)
GEOG 350 (3) Ecological Biogeography (Prerequisite: GEOG 302 or BIOL 205)
GEOG 372 (3) Running Water Environments (Prerequisite: GEOG 203 and GEOG 272 or ENVR 200 and ENVR 202.)

Mathematics and Statistics

[Students in any Minor or Major Concentration or Honours Program in Mathematics and Statistics cannot choose this disciplinary area.]

Suggested courses:

MATH 133 (3) Vectors, Matrices & Geometry
MATH 203 (3) Principles of Statistics 1
MATH 204 (3) Principles of Statistics 2 (Prerequisite: MATH 203 or equivalent)

- MATH 222 (3) Calculus 3
 MATH 338 (3) History and Philosophy of Mathematics

Microbiology and Immunology

Prerequisites which cannot be counted towards the Minor Concentration: BIOL 111 and BIOL 112, CHEM 120 (CHEM 121) or their CEGEP equivalents.

Students can complete the 12 credits from the following courses and their associated prerequisites: :

Note: CHEM 212 or its CEGEP equivalent is prerequisite, or co-requisite, to these courses.

- MIMM 211 (3) Biology of Microorganisms
 MIMM 314 (3) Immunology (Prerequisite: BIOL 200 and BIOL 201 or BIOC 212)
 MIMM 323 (3) Microbial Physiology (Prerequisite: MIMM 211)
 MIMM 324 (3) Fundamental Virology (Prerequisite: MIMM 211, BIOL 200, BIOL 201 or BIOC 212)

Pathology

Prerequisites which cannot be counted towards the Minor Concentration: BIOL 111 and BIOL 112 plus CHEM 120 (or CHEM 121) or their CEGEP equivalents.

This course, together with its associate prerequisites, is well suited to students with an interest in medicine.

Note: CHEM 212 or its CEGEP equivalent is also prerequisite, or corequisite, to this course.

- PATH 300 (3) Human Disease (Prerequisites: BIOL 200, BIOL 201 or BIOC 212, PHGY 209. Pre- or corequisite PHGY 210)

Physics

Prerequisites which cannot be counted towards the Minor Concentration: Most of the courses listed require at least CEGEP-level prerequisites or their equivalent in both Mathematics and Physics.

Exceptions are: PHYS 200, PHYS 204, PHYS 208, PHYS 209, MATH 223. A possible 12-credit combination without such prerequisites is PHYS 200, PHYS 204, PHYS 224 and PHYS 225.

Honours courses may be substituted for their Major equivalents only with the permission of the Department.

- PHYS 200 (3) Space, Time and Matter
 PHYS 204 (3) Planets, Stars and Galaxies
 or PHYS 214 (3) Astrophysics
 PHYS 208 (1) Topics in Physics
 PHYS 224 (3) Physics and Psychophysics of Music
 PHYS 225 (3) Musical Acoustics (Prerequisite: PHYS 224)
 PHYS 230 (3) Dynamics of Simple Systems
 PHYS 232 (2) Heat and Waves (Prerequisite: PHYS 230)
 PHYS 241 (2) Signal Processing
 PHYS 242 (3) Electricity and Magnetism (Prerequisite: MATH 222)
 PHYS 257 (3) Experimental Methods 1 (Prerequisite: PHYS 230 or PHYS 250)
 PHYS 258 (3) Experimental Methods 2 (Prerequisite: PHYS 257)

Physiology

Prerequisites which cannot be counted towards the Minor Concentration: BIOL 111 and BIOL 112, CHEM 110 (or CHEM 111), PHYS 101 (or PHYS 131) and PHYS 102 (or PHYS 142), CHEM 120 (or CHEM 121) or their CEGEP equivalents.

Students should take either:

- PHGY 201 (3) Human Physiology: Control Systems (Prerequisite: CHEM 212)
 and PHGY 202 (3) Human Physiology: Body Functions (Prerequisite: CHEM 212)
 or PHGY 209 (3) Mammalian Physiology 1 (Prerequisite: CHEM 212, BIOL 200, BIOL 201 or BIOC 212)

- and PHGY 210 (3) Mammalian Physiology 2 (Prerequisite: CHEM 212, BIOL 200, BIOL 201 or BIOC 212)

and one or more of these higher level courses:

- PHGY 311 (3) Intermediate Physiology 1 (Prerequisite: PHGY 209, PHGY 210 or equivalent or permission.)
 PHGY 312 (3) Intermediate Physiology 2 (Prerequisite: PHGY 209, PHGY 210 or equivalent, PHGY 311 or permission.)
 PHGY 313 (3) Intermediate Physiology 3 (Prerequisite: PHGY 209, PHGY 210 or equivalent, PHGY 311 or permission.)

Psychology

[Students in any Minor or Major Concentration or Honours Program in Psychology cannot choose this disciplinary area.]

Prerequisites which cannot be counted towards the Minor Concentration: PSYC 100 plus BIOL 111 or BIOL 112 or BIOL 115, (or their CEGEP equivalents).

Students in the Minor Concentration take two of the following courses:

Note: PSYC 204 is prerequisite to this area:

- PSYC 211 (3) Introductory Behavioral Neuroscience
 PSYC 212 (3) Perception
 PSYC 213 (3) Cognition
 PSYC 215 (3) Social Psychology

plus one or more Psychology courses at the 300-level or higher (excluding PSYC 305). Students are recommended to satisfy the upper level course requirement by taking 6 credits from one of the areas of specialization specified in the Psychology section.

2.13 Women's Studies

HONOURS PROGRAM IN WOMEN'S STUDIES (57 credits)

Required Courses (12 credits)

- WMST 303 (3) Feminist Theory and Research
 WMST 495D1 (1.5) Honours/Joint Honours Colloquium
 WMST 495D2 (1.5) Honours/Joint Honours Colloquium
 WMST 496D1 (3) Honours Thesis
 WMST 496D2 (3) Honours Thesis

Complementary Courses (45 credits)

45 credits from the three Women's Studies Complementary Course Groups: Historical and Non-European; Literature and the Arts; Science and Social Studies.

At least 9 of the 45 credits must be at the 400 or 500 level; no more than 18 credits can be at the 200 level.

- at least 15 credits to be chosen from one group,
- at least 15 credits to be chosen from a second group,
- at least 6 credits to be chosen from the remaining group.

JOINT HONOURS PROGRAM IN WOMEN'S STUDIES

(36 credits)

Required Courses (9 credits)

- WMST 303 (3) Feminist Theory and Research
 WMST 495D1 (1.5) Honours/Joint Honours Colloquium
 WMST 495D2 (1.5) Honours/Joint Honours Colloquium
 WMST 497D1 (1.5) Joint Honours Thesis
 WMST 497D2 (1.5) Joint Honours Thesis

Complementary Courses (27 credits)

27 credits from the three Women's Studies Complementary Course Groups: Historical and Non-European; Literature and the Arts; Science and Social Studies.

At least 6 of the 27 credits must be at the 400 or 500 level; no more than 9 credits can be at the 200 level.

- 12 credits to be chosen from one group,
- 12 credits to be chosen from a second group,
- 3 credits to be chosen from the remaining group.

3 Education

The Calendar Supplement will be updated later in September to include changes to the following programs:

- B.Ed. K/Elementary
- B.Ed. Teaching English as a Second Language
- B.Ed. Major in Physical Education
- B.Ed. Faculty Program in Kinesiology

as well as an outline of the B.Ed. Français langue second (Joint Program with Université de Montréal) which will begin in September 2003 at McGill, and in January 2003 at the Université de Montréal.

4 Engineering

4.1 Architecture

Curriculum for the B.Sc.(Arch.) Degree

REQUIRED COURSES

Non-Departmental Subjects

	COURSE CREDIT	
CIVE 205 Statics	3	
CIVE 283 Strength of Materials	4	
CIVE 385* Structural Steel and Timber Design	3	
CIVE 388* Foundations & Concrete Design	3	
CIVE 492* Structures	2	
FACC 220 Law for Architects and Engineers	3	
MIME 310 Engineering Economy	3	21

* Candidates intending not to proceed to the M.Arch.I degree may substitute other courses of equal total weight for any of these.

Architectural Subjects

ARCH 201 Communication, Behaviour & Architecture	6	
ARCH 202 Arch. Graphics and Design Elements	6	
ARCH 217 Freehand Drawing 1	1	
ARCH 218 Freehand Drawing 2	1	
ARCH 240 Organization of Materials in Building	3	
ARCH 250 Architectural History 1	3	
ARCH 251 Architectural History 2	3	
ARCH 303 Design and Construction 1	6	
ARCH 304 Design and Construction 2	6	
ARCH 321 Freehand Drawing 3	1	
ARCH 322 Freehand Drawing 4	1	
ARCH 324 Sketching School 1	1	
ARCH 375 Landscape	2	
ARCH 405 Design and Construction 3	6	
ARCH 406 Design and Construction 4	6	
ARCH 447 Electrical Services	2	
ARCH 451 Building Regulations & Safety	2	56

COMPLEMENTARY COURSES

Students must complete 12 credits of architectural complementaries which must include at least one course from each of the areas of concentration listed below in order to qualify for the B.Sc.(Arch.) degree.

A. History	B. Theory	C. Environ- mental Design	D. Technics
ARCH 372	ARCH 352	ARCH 350	ARCH 318
ARCH 379	ARCH 363	ARCH 378	ARCH 319
ARCH 388	ARCH 383	ARCH 379	ARCH 364
ARCH 522	ARCH 524	ARCH 520	ARCH 377
ARCH 523	ARCH 525	ARCH 521	ARCH 461
ARCH 528	ARCH 529	ARCH 527	ARCH 471
ARCH 531		OCC1 442	ARCH 526
ARCH 532			
ARCH 533			

OUTSIDE ELECTIVES:

6 credits must be completed outside the School of Architecture, subject to approval by the Student Advisor.

TOTAL CREDITS, B.Sc.(Arch.):

6

95

Architectural Complementaries

ARCH 252	(3)	Intro. to Architectural History 1
ARCH 253	(3)	Intro. to Architectural History 2
ARCH 318	(3)	Design Sketching
ARCH 319	(3)	The Camera and Perception
ARCH 350	(3)	The Material Culture of Canada
ARCH 352	(3)	Art and Theory of House Design
ARCH 364	(2)	Architectural Modeling
ARCH 372	(2)	History of Architecture in Canada
ARCH 377	(2)	Energy, Environment and Buildings
ARCH 378	(3)	Site Usage
ARCH 379	(4)	Summer Course Abroad
ARCH 383	(2)	Geometry, Architecture and Environment
ARCH 388	(2)	Introduction to Historic Preservation
ARCH 461	(1)	Freehand Drawing & Sketching
ARCH 471	(2)	Computer-Aided Building Design
ARCH 490	(2)	Selected Topics in Design
ARCH 520	(3)	Montreal: Urban Morphology
ARCH 521	(3)	Structure of Cities
ARCH 522	(3)	History of Domestic Arch. in Quebec
ARCH 523	(3)	Significant Texts and Buildings
ARCH 524	(3)	Seminar on Architectural Criticism
ARCH 525	(3)	Seminar on Analysis and Theory
ARCH 526	(3)	Philosophy of Structure
ARCH 527	(3)	Civic Design
ARCH 528	(3)	History of Housing
ARCH 529	(3)	Housing Theory
ARCH 531	(3)	Arch. Intentions from Vitruvius to the Renaissance
ARCH 532	(3)	Origins of Modern Architecture
ARCH 533	(3)	New Approaches to Architectural History
ARCH 540	(3)	Selected Topics in Architecture 1
ARCH 541	(3)	Selected Topics in Architecture 2
OCC1 442	(2)	Enabling Environments

4.2 Electrical and Computer Engineering

Curriculum for the B.Eng. Degree In Electrical Engineering (Regular)

REQUIRED COURSES

Non-Departmental Courses

	COURSE CREDIT
CIVE 281 Mechanics	3
or PHYS 251 Mechanics (3)	
COMP 202 Intro. to Computing 1	3
EDEC 206 Communication in Engineering	3
MATH 260 Intermediate Calculus	3
MATH 261 Differential Equations	3
or MATH 325 Ordinary Differential Eqns (3)	
MATH 265 Advanced Calculus	3
or MATH 248*Advanced Calculus (3)	
MATH 270 Applied Linear Algebra	3
or MATH 247*Linear Algebra (3)	
MATH 381 Complex Variables & Transforms	3
MIME 221 Engineering Professional Practice	1
MIME 310 Engineering Economy	3
PHYS 271 Quantum Physics	3
	<u>31</u>

* CGPA of 3.30 is required to register for MATH 247 and MATH 248.

Departmental Courses

ECSE 200 Fundamentals of Electrical Engineering	3
ECSE 210 Circuit Analysis	3
ECSE 221 Introduction to Computer Engineering	3
ECSE 291 Electrical Measurements Lab	2

ECSE 303	Signals & Systems 1	3	
ECSE 304	Signals & Systems 2	3	
ECSE 305	Probability & Random Sig. 1	3	
ECSE 322	Computer Engineering	3	
ECSE 323	Digital System Design	5	
ECSE 330	Electronic Circuits 1	3	
ECSE 334	Electronic Circuits 2	5	
ECSE 351	Electromagnetic Fields	3	
ECSE 352	EM Waves and Optics	3	
ECSE 361	Power Engineering	3	
ECSE 494	Design Project	3	48

COMPLEMENTARY COURSES

Technical Complementaries 18
Six courses (18 credits) from the list of 400-level courses in Electrical Engineering that must include 9 credits (3 courses) from one of the areas of concentration listed below:

Computer Systems Technology

ECSE 424	Human Computer Interaction
ECSE 425	Computer Organization and Architecture
ECSE 427	Operating Systems

Control & Automation

ECSE 404	Control Systems
ECSE 412	Discrete Time Signal Processing
ECSE 426	Microprocessor Systems

Integrated Circuits & Electronics

ECSE 425	Computer Organization and Architecture
ECSE 431	Electronic Design
ECSE 432	Physical Basis: Transistor Devices
ECSE 435	Mixed-Signal Test Techniques

Phototonics

ECSE 423	Optical Communications 1
ECSE 430	Optical Communications 2
ECSE 432	Physical Basis: Transistor Devices

Power Engineering

ECSE 404	Control Systems
ECSE 460	Appareillage électrique (Electrical Power Equipment)
ECSE 462	Electromechanical Energy Conversion
ECSE 464	Power System Analysis 1
ECSE 465	Power Electronic Systems
ECSE 468	Electricité industrielle (Industrial Power Systems)

Telecommunications*

ECSE 411	Communications Systems 1
ECSE 414	Introduction to Telecommunication Networks

and any one of the following:

ECSE 412	Discrete Time Signal Processing
ECSE 413	Communications Systems 2
ECSE 423	Optical Communications 1
ECSE 451	EM Transmission and Radiation

Laboratory Complementaries 4

Two 400-level laboratory courses in Electrical Engineering

General Complementaries 9

Two courses (6 credits) in Social Sciences, Administrative Studies or Humanities, selected from an approved list (category ii - section 3.4 of the Faculty of Engineering entry in the *Undergraduate Programs Calendar*) and one course (3 credits) on the impact of technology (category i - section 3.4) in consultation with an academic advisor. At least one 3-credit course must be from category A (Humanities and Social Sciences) in section 3.4.

TOTAL CREDITS 110

***Enhanced ITT Concentration in Telecommunications**

The International Institute of Telecommunications (IIT) was recently established in Montreal as a center for telecommunications education. It is funded by government and industry, and provides state-of-the-art laboratory facilities and a point of contact between local telecommunications industries and universities.

This program is open to students in the regular Electrical Engineering program only.

The benefits of the Concentration are:

- a guaranteed project lab (ECSE 494) in telecommunications, at IIT or with an IIT company; and
- permission to take ECSE 496 at IIT.

To complete the Concentration, students must take six courses as Technical Complementaries:

ECSE 411	Communications Systems 1
ECSE 414	Introduction to Telecommunication Networks
ECSE 496	Telecom. Systems and Services

and any three courses selected from the following list:

ECSE 412	Discrete Time Signal Processing
ECSE 413	Communications Systems 2
ECSE 423	Optical Communications 1
ECSE 451	EM Transmission and Radiation

In addition, students must take ECSE 491 (Communications Systems Lab) and complete ECSE 494 (Design Project) in telecommunications, at IIT or with an IIT company.

There may be an enrolment limitation in this concentration in any given semester.

Curriculum for the Bachelor of Software Engineering (B.S.E.)

REQUIRED COURSES		COURSE CREDIT
COMP 202	Introduction to Computing 1	3
COMP 206	Intro Software Systems	3
COMP 250	Intro to Computer Science	3
COMP 251	Data Structures and Algorithms	3
COMP 302	Programming Languages & Paradigms	3
COMP 330	Theoretical Aspects of Computer Science	3
COMP 360	Algorithm Design Techniques	3
COMP 361	Systems Programming Project	3
COMP 420	Files and Databases	3
ECSE 221	Introduction to Computer Engineering	3
ECSE 321	Intro to Software Engineering	3
ECSE 322	Computer Engineering	3
ECSE 427	Operating Systems	3
ECSE 428	Software Engineering Practice	3
ECSE 429	Software Validation	3
ECSE 495	Software Eng. Design Project	3
MATH 260	Intermediate Calculus	3
MATH 261	Differential Equations	3
MATH 265	Advanced Calculus	3
MATH 270	Applied Linear Algebra	3
MATH 363	Discrete Mathematics	3
MATH 381	Complex Variables & Transforms	3 66

Engineering Breadth Required Courses

ECSE 200	Fundamentals of Electrical Engineering	3
ECSE 210	Circuit Analysis	3
ECSE 291	Electrical Measurements Lab	2
ECSE 303	Signals and Systems 1	3
ECSE 305	Probability and Random Sig. 1	3
ECSE 330	Electronic Circuits 1	3
EDEC 206	Communication in Engineering	3
MIME 310	Engineering Economy	3
MIME 221	Engineering Professional Practice	1 24

Technical Complementaries 11 - 12

Students must take 11-12 credits of technical complementaries from the following list, of which at least 6 credits must be taken from list A and the remainder from list B.

Group A Technical Complementaries

COMP 350	Numerical Computing
COMP 409	Concurrent Programming
COMP 424	Topics in Artificial Intelligence 1
COMP 433	Personal Software Engineering
COMP 524	Theoretical Found. of Prog. Lang.
COMP 575	Fundamentals of Distributed Algorithms

Group B Technical Complementaries

ECSE 304	Signals and Systems 2
ECSE 323	Digital Systems Design
ECSE 404	Control Systems
ECSE 411	Communications Systems 1
ECSE 412	Discrete Time Signal Processing
ECSE 413	Communications Systems 2
ECSE 414	Introduction to Telecommunication Networks
ECSE 421	Embedded Systems
ECSE 422	Fault Tolerant Computing
ECSE 420	Parallel Computing
ECSE 424	Human-Computer Interaction
ECSE 425	Computer Organization and Architecture
ECSE 426	Microprocessor Systems
or COMP 573	Microcomputers
ECSE 504	Computer Control
ECSE 522	Asynchronous Circuits and Systems
ECSE 526	Artificial Intelligence
ECSE 529	Image Processing & Communications
ECSE 530	Logic Synthesis
ECSE 531	Real-Time Systems
ECSE 532	Computer Graphics
or COMP 557	Fundamentals of Computer Graphics
COMP 410	Mobile Computing
COMP 412	Software for e-commerce
COMP 505	High-Performance Computer Architecture
COMP 520	Compiler Design
COMP 535	Computer Networks
COMP 566	Computer Methods in Operations Research

General Complementaries

Two courses (6 credits) in Social Sciences, Administrative Studies or Humanities, selected from an approved list (category ii - section 3.4 of the Faculty of Engineering entry in the *Undergraduate Programs Calendar*) and one course (3 credits) on the impact of technology (category i - section 3.4) in consultation with an academic advisor. At least one 3-credit course must be from category A (Humanities and Social Sciences) in section 3.4.

TOTAL CREDITS 110/111

4.3 Mechanical Engineering**Curriculum for the B.Eng. Degree in Mechanical Engineering (Regular)****REQUIRED COURSES****Non-Departmental Subjects**

	COURSE CREDIT	
CIVE 207	Solid Mechanics	4
COMP 208	Computers in Engineering	3
ECSE 461	Electric Machinery	3
EDEC 206	Communication in Engineering	3
MATH 260	Intermediate Calculus	3
MATH 261	Differential Equations	3
MATH 265	Advanced Calculus	3
MATH 266	Linear Algebra and BVP	4
MIME 221	Engineering Professional Practice	1
MIME 260	Materials Science and Engineering	3
MIME 310	Engineering Economy	3
		33

Departmental Courses

MECH 201	Introduction to Mechanical Engineering	2
MECH 210	Mechanics 1	2
MECH 220	Mechanics 2	4
MECH 240	Thermodynamics 1	3
MECH 260	Machine Tool Laboratory	2
MECH 262	Statistics and Measurement Laboratory	3
MECH 291	Graphics	3
MECH 292	Design 1	3
MECH 314	Dynamics of Mechanisms	3
MECH 315	Mechanics 3	4

MECH 321	Mechanics of Deformable Solids	3
MECH 331	Fluid Mechanics 1	3
MECH 341	Thermodynamics 2	3
MECH 346	Heat Transfer	3
MECH 362	Mechanical Laboratory	2
MECH 383	Applied Electronics and Instrumentation	3
MECH 393	Design 2	3
MECH 409	Numerical Methods in Mechanical Engineering	3
MECH 412	Dynamics of Systems	3
MECH 430	Fluid Mechanics 2	3
MECH 463D1	Mechanical Engineering Project	3
MECH 463D2	Mechanical Engineering Project	3
		64

COMPLEMENTARY COURSES

15

2 courses (6 credits) at the 300 level or higher to be selected from Mechanical Engineering. For students who entered in September 2000 or later, one of these two courses must be chosen from the following list:

MECH 343	Energy Conversion
MECH 413	Control Systems
MECH 432	Aircraft Structures
MECH 471	Industrial Engineering
MECH 472	Case Studies in Project Mgmt
MECH 495	Design 3
MECH 496	Design 4
MECH 497	Value Engineering
MECH 524	Computer Integrated Manufacturing
MECH 526	Manufacturing and the Environment
MECH 528	Product Design
MECH 532	Aircraft Performance, Stability and Control
MECH 541	Kinematic Synthesis
MECH 543	Design with Composite Materials
MECH 554	Microprocessors for Mechanical Systems
MECH 557	Mechatronic Design
MECH 565	Fluid Flow & Heat Transfer Equipment
MECH 572	Introduction to Robotics
MECH 573	Mechanics of Robotic Systems
MECH 577	Optimum Design

1 course (3 credits) at the 300-level or higher from the Faculty of Engineering or an approved course in the Faculty of Science, including Mathematics.

2 courses (6 credits), 1 course from the Impact of Technology on Society and 1 course from Humanities and Social Sciences selected from an approved list (see section 3.4 of the Faculty of Engineering entry in the *Undergraduate Programs Calendar*).

TOTAL CREDITS 112

If advanced credit is given for MATH 260 Intermediate Calculus (see section 2.4 of the Faculty of Engineering entry in the *Undergraduate Programs Calendar*), the total number of credits is reduced by three.

Curriculum for the B.Eng. Degree in Mechanical Engineering (Honours)**REQUIRED COURSES****Non-Departmental Subjects**

	COURSE CREDIT	
CIVE 207	Solid Mechanics	4
EDEC 206	Communication in Engineering	3
COMP 208	Computers in Engineering	3
MATH 260	Intermediate Calculus	3
MATH 261	Differential Equations	3
MATH 265	Advanced Calculus	3
MATH 266	Linear Algebra and BVP	4
MIME 221	Engineering Professional Practice	1
MIME 310	Engineering Economy	3
		27

Departmental Courses

MECH 201	Introduction to Mechanical Engineering	2
MECH 210	Mechanics 1	2
MECH 220	Mechanics 2	4

MECH 240	Thermodynamics 1	3
MECH 260	Machine Tool Laboratory	2
MECH 262	Statistics and Measurement Laboratory	3
MECH 291	Graphics	3
MECH 292	Design 1	3
MECH 321	Mechanics of Deformable Solids	3
MECH 331	Fluid Mechanics 1	3
MECH 341	Thermodynamics 2	3
MECH 346	Heat Transfer	3
MECH 362	Mechanical Laboratory	2
MECH 383	Applied Electronics and Instrumentation	3
MECH 403D1	Honours Thesis 1	3
MECH 403D2	Honours Thesis 1	3
MECH 404	Honours Thesis 2	3
MECH 409	Numerical Methods in Mechanical Engineering	3
MECH 419	Advanced Mechanics of Systems	3
MECH 430	Fluid Mechanics 2	3
MECH 452	Mathematical Methods in Engineering	3
MECH 494	Honours Design Project	3

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COMPLEMENTARY COURSES

2 of the following three courses (6 credits):

MECH 545	Advanced Stress Analysis
MECH 562	Advanced Fluid Mechanics
MECH 578	Advanced Thermodynamics

2 courses (6 credits) at the 300 level or higher to be selected from Mechanical Engineering. For students who entered in September 2000 or later, one of these two courses must be chosen from the following list:

MECH 343	Energy Conversion
MECH 413	Control Systems
MECH 432	Aircraft Structures
MECH 471	Industrial Engineering
MECH 472	Case Studies in Project Mgmt
MECH 495	Design 3
MECH 496	Design 4
MECH 497	Value Engineering
MECH 524	Computer Integrated Manufacturing
MECH 526	Manufacturing and the Environment
MECH 528	Product Design
MECH 532	Aircraft Performance, Stability and Control
MECH 541	Kinematic Synthesis
MECH 543	Design with Composite Materials
MECH 554	Microprocessors for Mechanical Systems
MECH 557	Mechatronic Design
MECH 565	Fluid Flow & Heat Transfer Equipment
MECH 572	Introduction to Robotics
MECH 573	Mechanics of Robotic Systems
MECH 577	Optimum Design

1 course (3 credits) at the 300 level or higher from the Faculty of Engineering or an approved course in the Faculty of Science, including Mathematics.

2 courses (6 credits), 1 course from the Impact of Technology on Society and 1 course from Humanities and Social Sciences selected from an approved list (see section 3.4 of the Faculty of Engineering entry in the *Undergraduate Programs Calendar*).

TOTAL CREDITS

111

4.4 Software Engineering Minor

Required Courses (9 credits)

ECSE 221	(3) Introduction to Computer Engineering
ECSE 321	(3) Introduction to Software Engineering
ECSE 428	(3) Software Engineering Practice

Complementary Courses (15 credits)

one course (3 credits), either:

COMP 203	(3) Introduction to Computing 2
or COMP 250	(3) Introduction to Computer Science

At least one course (3 credits) must be selected from the following list of engineering courses:

CHEE 458	(3) Computer Applications
CHEE 571	(3) Small Computer Applications in Chemical Eng.
CIVE 460	(3) Matrix Structural Analysis
CIVE 550	(3) Water Resources Management
CIVE 572	(3) Computational Hydraulics
ECSE 322	(3) Computer Engineering
ECSE 424	(3) Human-Computer Interaction
ECSE 427	(3) Operating Systems
ECSE 526	(3) Artificial Intelligence
ECSE 531	(3) Real Time Systems
ECSE 532	(3) Computer Graphics
MECH 474	(3) Selected Topics in Operations Research
MECH 524	(3) Computer Integrated Manufacturing
MECH 539	(3) Computational Aerodynamics
MECH 545	(3) Advanced Stress Analysis
MECH 576	(3) Computer Graphics and Geometrical Modelling

No more than two courses (6 credits) can be selected from the following list of courses offered by the School of Computer Science:

COMP 302	(3) Programming Languages and Paradigms
COMP 335	(3) Software Engineering Methods
COMP 420	(3) Files and Database Systems
COMP 421	(3) Introduction to Database Systems
COMP 424	(3) Topics in Artificial Intelligence
COMP 426	(3) Automated Reasoning
COMP 431	(3) Algorithms and Data Structures
COMP 433	(3) Personal Software Engineering
COMP 538	(3) Person-Machine Communication

5 Management

5.1 Concentrations

ACCOUNTING

Approved as published in the Calendar.

ENTREPRENEURSHIP

Required Course (3 credits)

BUSA 464	(3) Management of Small Enterprises
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Complementary Courses (12 credits)

one of:

BUSA 462	(3) Management of New Enterprises
BUSA 465	(3) Technological Entrepreneurship

and three of:

ACCT 417	(3) Taxation and Business Decisions
BUSA 364	(3) Business Law 1
FINE 445	(3) Real Estate Finance
MGPO 383	(3) International Business Policy
MGPO 562	(3) Seminar in Organizational Strategy
MRKT 354	(3) Marketing Management 2
MRKT 452	(3) Consumer Behaviour
MRKT 453	(3) Advertising Management

FINANCE

Required Courses (9 credits)

FINE 342	(3) Finance 2
FINE 441	(3) Investments and Portfolio Management
FINE 443	(3) Applied Corporate Finance

Complementary Course (6 credits)

two of:

FINE 442	(3) Capital Markets and Institutions
FINE 444	(3) Insurance and Risk Management
FINE 445	(3) Real Estate Finance
FINE 448	(3) Derivatives and Risk Management

FINE 480	(3)	Global Investments
FINE 482	(3)	International Finance 1
FINE 492	(3)	International Finance 2
FINE 541	(3)	Applied Investments
FINE 645	(3)	Money and Capital Markets

INFORMATION SYSTEMS

Approved as published in the Calendar.

INTERNATIONAL BUSINESS

Approved as published in the Calendar.

LABOUR-MANAGEMENT RELATIONS

Approved as published in the Calendar.

MARKETING**Required Courses** (12 credits)

MRKT 354	(3)	Marketing Management 2
MRKT 357	(3)	Marketing Planning
MRKT 451	(3)	Marketing Research (to be taken in U2)
MRKT 452	(3)	Consumer Behaviour

Complementary Course (3 credits)

one of:

MRKT 351	(3)	Marketing in Society
MRKT 355	(3)	Service Marketing
MRKT 365	(3)	New Products
MRKT 438	(3)	Brand Management
MRKT 455	(3)	Sales Force Management
MRKT 456	(3)	Industrial Marketing
MRKT 459	(3)	Retail Management
MRKT 461	(3)	Advertising Practicum
MRKT 483	(3)	International Marketing
MRKT 557	(3)	Marketing Research 2

ORGANIZATIONAL BEHAVIOUR AND HUMAN RESOURCE MANAGEMENT

Approved as published in the Calendar.

STRATEGIC MANAGEMENT

Approved as published in the Calendar.

6 Science**6.1 Anatomy and Cell Biology****MAJOR PROGRAM IN ANATOMY AND CELL BIOLOGY**

(69 credits)

Required Courses (60 credits)

ANAT 212	(3)	Molecular Mechanisms of Cell Function
ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology (must be taken in U1)
ANAT 262	(3)	Introductory Molecular & Cell Biology
ANAT 321	(3)	Circuitry of the Human Brain
ANAT 322	(3)	Neuroendocrinology
ANAT 365	(3)	Cell Biology of the Secretory Process
ANAT 381	(3)	Experimental Basis of Embryology
ANAT 458	(3)	Membranes and Cellular Signaling
BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	General Genetics
BIOL 301	(4)	Cell and Molecular Laboratory
CHEM 212*	(4)	Organic Chemistry 1
CHEM 222*	(4)	Organic Chemistry 2
MATH 203*	(3)	Principles of Statistics 1
or PSYC 204	(3)	Introduction to Psychological Statistics
or BIOL 373	(3)	Biostatistical Analysis
MIMM 314	(3)	Immunology
PHGY 209	(3)	Mammalian Physiology 1

PHGY 210	(3)	Mammalian Physiology 2
PHGY 212D1	(1)	Introductory Physiology Lab
PHGY 212D2	(1)	Introductory Physiology Lab

* If the equivalents to these courses were passed in CEGEP, they are not required for the Anatomy and Cell Biology programs, and may not be re-taken at McGill. Students must take the equivalent number of credits in Elective Courses to satisfy the total credit requirement for their degree.

Complementary Courses (9 credits)

9 credits selected from biologically oriented courses (BOC) in the following list:

BIOL 300, BIOL 301, BIOL 303, BIOL 306, BIOL 313, BIOL 314, BIOL 357, BIOL 370, BIOL 389, BIOL 468, BIOL 475, BIOL 516, BIOL 518, BIOL 520, BIOL 522, BIOL 524, BIOL 530, BIOL 531, BIOL 532, BIOL 551, BIOL 572, BIOL 588;
ANAT 322, ANAT 365, ANAT 381, ANAT 432, ANAT 541;
BIOC 311, BIOC 312, BIOC 450, BIOC 454, BIOC 455, BIOC 503;
BIOT 505;
EXMD 401, EXMD 502, EXMD 503, EXMD 504, EXMD 506, EXMD 507, EXMD 508, EXMD 509, EXMD 510, EXMD 511, EXMD 512D;
MIMM 314, MIMM 323, MIMM 324, MIMM 386D1/MIMM 386D2, MIMM 387, MIMM 413, MIMM 414, MIMM 465, MIMM 466, MIMM 509;
NEUR 310; NUTR 307; PATH 300;
PHAR 300, PHAR 301, PHAR 562, PHAR 563;
PHGY 311, PHGY 312, PHGY 313, PHGY 423, PHGY 444, PHGY 451, PHGY 502, PHGY 508, PHGY 513, PHGY 515, PHGY 516, PHGY 517, PHGY 518, PHGY 520, PHGY 531, PHGY 552, PHGY 556; PSYT 500.

HONOURS PROGRAM IN ANATOMY AND CELL BIOLOGY

(81 credits)

Students should register at the Major level in U1 and, if accepted, may enter the Honours Program at the beginning of U2. To enter the program, the student must obtain a CGPA of at least 3.00 at the end of U1. For promotion to the U3 year of the Honours program, or for entry into the program at this level, the student must have a CGPA of at least 3.20 at the end of their U2 year. It is expected that at the beginning of the third year the students who wish to continue in the Honours Program will be those who feel that they are seriously interested in a career in Cell Biology. The Honours Degree will be recommended after successful completion of the Program with a CGPA of at least 3.20.

Required Courses (78 credits)

all Major Program required courses, plus:

ANAT 432	(9)	Research Project: Anatomical Science
ANAT 541	(3)	Cell and Molecular Biology of Aging
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules

Complementary Courses (3 credits)

3 credits of biologically oriented courses (BOC), as defined in the Major Program.

6.2 Cognitive Science**MINOR PROGRAM IN COGNITIVE SCIENCE** (27 credits)**Required Course** (3 credits)

PSYC 532	(3)	Cognitive Science
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Complementary Courses (24 credits)

from outside of the student's home department, selected from the courses listed below.

Computer Science

COMP 424	(3)	Artificial Intelligence 1
COMP 426	(3)	Automated Reasoning
COMP 558	(3)	Fundamentals of Computer Vision

Educational Psychology

EDPE 555 (3) Applied Cognitive Science

Linguistics

LING 331 (3) Phonology 1
LING 355 (3) Language Acquisition 1
LING 370 (3) Semantics 1
LING 371 (3) Syntax 1
LING 419 (3) Linguistic Theory 1
LING 440 (3) Morphology
LING 531 (3) Phonology 2
LING 555 (3) Language Acquisition 2
LING 571 (3) Syntax 2
LING 590 (3) Introduction to Neurolinguistics

Mathematics

MATH 318 (3) Mathematical Logic
MATH 328 (3) Computability and Mathematical Linguistics

Philosophy

PHIL 210 (3) Introduction to Deductive Logic
PHIL 304 (3) Chomsky
PHIL 306 (3) Philosophy of Mind
PHIL 310 (3) Intermediate Logic
PHIL 410 (3) Topics in Advanced Logic 1
PHIL 415 (3) Philosophy of Language
PHIL 419 (3) Epistemology
PHIL 506 (3) Seminar: Philosophy of Mind
PHIL 507 (3) Seminar: Cognitive Science

Psychology

PSYC 311 (3) Human Cognition and the Brain
PSYC 314 (3) Thinking and Concepts
PSYC 334 (3) Computer Simulation - Psych. Process.
PSYC 335 (3) Formal Models of Psych. Processes
PSYC 343 (3) Language Acquisition in Children
PSYC 352 (3) Laboratory in Cognitive Psychology
PSYC 353 (3) Laboratory in Human Perception
PSYC 413 (3) Cognitive Development
PSYC 470 (3) Memory and Brain
PSYC 472 (3) Scientific Thinking and Reasoning

6.3 Computer Science

MINOR PROGRAM IN COMPUTER SCIENCE (24 credits)

Required Courses (12 credits)

COMP 202 (3) Introduction to Computing 1
COMP 203 (3) Introduction to Computing 2
COMP 206 (3) Intro to Software Systems
COMP 302 (3) Programming Languages and Paradigms

Complementary Courses (12 credits)

selected from:

COMP 251 (3) Data Structures and Algorithms
COMP 273 (3) Intro. to Computer Systems
COMP 303 (3) Programming Techniques
COMP 304 (3) Object-oriented Design
COMP 310 (3) Comp. Systems and Organization
COMP 335 (3) Software Engineering Methods
COMP 350 (3) Numerical Computing
or MATH 317 (3) Numerical Analysis
COMP 360 (3) Algorithm Design Techniques
COMP 361 (3) Systems Programming Project
COMP 409 (3) Concurrent Programming
COMP 410 (3) Mobile Computing
COMP 412 (3) Software for e-Commerce
COMP 420 (3) Files and Databases
COMP 421 (3) Database Systems
COMP 423 (3) Data Compression
COMP 424 (3) Artificial Intelligence 1
COMP 426 (3) Automated Reasoning
COMP 433 (3) Personal Software Engineering

COMP 435 (3) Basics of Computer Networks
COMP 490 (3) Intro to Probabilistic Analysis Algorithms
COMP 505 (3) High-Performance Computer Architecture
COMP 506 (3) Advanced Analysis of Algorithms
COMP 507 (3) Computational Geometry
COMP 520 (4) Compiler Design
COMP 522 (4) Modelling and Simulation
COMP 524 (3) Theoretical Found. of Prog. Lang.
COMP 526 (3) Probabilistic Reasoning and AI
COMP 534 (3) Team Software Engineering
COMP 535 (3) Computer Networks
COMP 537 (3) Internet Programming
COMP 538 (3) Person-Machine Communication
COMP 540 (3) Matrix Computations
COMP 557 (3) Fundamentals of Computer Graphics
COMP 558 (3) Fund. of Computer Vision
COMP 560 (3) Graph Algorithms and Applications
COMP 562 (3) Computational Biology Methods
COMP 566 (3) Discrete Optimization 1
COMP 567 (3) Discrete Optimization 2
COMP 573 (3) Microcomputers
COMP 575 (3) Fundamentals of Distributed Algorithms
COMP 577 (3) Distributed Database Systems

or from courses outside of the School approved by the adviser, to a maximum of 6 credits.

MAJOR PROGRAM IN COMPUTER SCIENCE (60 credits)

To enter the program, students must have completed MATH 140 and MATH 141, or their equivalents. MATH 133, or its equivalent, may be taken prior to entry or concurrently with COMP 250 during the first semester in the program. Freshman Program students interested in Computer Science should try to take COMP 202 if possible, but it is not required for entry to the Major. A student entering with insufficient programming background may take COMP 202 but it will not count for program credit.

Required Courses (42 credits)

COMP 250 (3) Intro to Computer Science
COMP 251 (3) Data Structures and Algorithms
COMP 206 (3) Intro to Software Systems
COMP 273 (3) Intro. to Computer Systems
COMP 302 (3) Programming Languages and Paradigms
COMP 310 (3) Comp. Systems and Organization
COMP 330 (3) Theoretical Aspects of Computer Science
COMP 350 (3) Numerical Computing
COMP 360 (3) Algorithm Design Techniques
MATH 222 (3) Calculus 3
MATH 223 (3) Linear Algebra
MATH 240 (3) Discrete Structures and Computing
MATH 323 (3) Probability Theory
MATH 340 (3) Abstract Algebra and Computing

Complementary Courses (18 credits)

15 credits from:

COMP 303 (3) Programming Techniques
COMP 304 (3) Object-oriented Design
COMP 335 (3) Software Engineering Methods
COMP 361 (3) Systems Programming Project
COMP 409 (3) Concurrent Programming
COMP 410 (3) Mobile Computing
COMP 412 (3) Software for e-Commerce
COMP 420 (3) Files and Databases
COMP 421 (3) Database Systems
COMP 423 (3) Data Compression
COMP 424 (3) Artificial Intelligence 1
COMP 426 (3) Automated Reasoning
COMP 433 (3) Personal Software Engineering
COMP 435 (3) Basics of Computer Networks
COMP 490 (3) Intro to Probabilistic Analysis Algorithms
COMP 505 (3) High-Performance Computer Architecture
COMP 506 (3) Advanced Analysis of Algorithms

COMP 507	(3)	Computational Geometry
COMP 520	(4)	Compiler Design
COMP 522	(4)	Modelling and Simulation
COMP 524	(3)	Theoretical Found. of Prog. Lang.
COMP 525	(3)	Formal Verification
COMP 526	(3)	Probabilistic Reasoning and AI
COMP 531	(3)	Theory of Computation
COMP 534	(3)	Team Software Engineering
COMP 535	(3)	Computer Networks
COMP 537	(3)	Internet Programming
COMP 538	(3)	Person-Machine Communication
COMP 540	(3)	Matrix Computations
COMP 547	(3)	Cryptography and Data Security
COMP 557	(3)	Fundamentals of Computer Graphics
COMP 558	(3)	Fundamentals of Computer Vision
COMP 560	(3)	Graph Algorithms and Applications
COMP 562	(3)	Computational Biology Methods
COMP 566	(3)	Discrete Optimization 1
COMP 567	(3)	Discrete Optimization 2
COMP 573	(3)	Microcomputers
COMP 575	(3)	Fundamentals of Distributed Algorithms
COMP 577	(3)	Distributed Database Systems
ECSE 323	(3)	Digital System Design
ECSE 426	(3)	Microprocessor Systems
ECSE 531	(3)	Real Time Systems
ECSE 548	(3)	Introduction to VLSI Systems

3 credits from Mathematics selected from:

MATH 242	(3)	Analysis 1
MATH 243	(3)	Real Analysis
MATH 255	(3)	Analysis 2

and any 300-level or above Mathematics course
(excluding MATH 338, MATH 323, MATH 340)

MAJOR PROGRAM IN SOFTWARE ENGINEERING (72 to 74 credits)

To enter this program, students must meet the eligibility requirements for the Major program in Computer Science.

Holders of this degree will **not** be eligible for accreditation (when accreditation standards for Software Engineers are introduced). Students wishing to be accredited should enroll in the Bachelor of Software Engineering degree program.

Required Courses (63 credits)

COMP 202	(3)	Introduction to Computing 1
COMP 206	(3)	Intro to Software Systems
COMP 250	(3)	Intro to Computer Science
COMP 251	(3)	Data Structures and Algorithms
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 304	(3)	Object-oriented Design
COMP 330	(3)	Theoretical Aspects of Computer Science
COMP 360	(3)	Algorithm Design Techniques
COMP 361	(3)	Systems Development Project
ECSE 221	(3)	Introduction to Computer Engineering
ECSE 321	(3)	Introduction to Software Engineering
ECSE 427	(3)	Operating Systems
ECSE 428	(3)	Software Engineering
ECSE 429	(3)	Validation & Verification
ECSE 495	(3)	Software Engineering Project
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures and Computing
MATH 260	(3)	Intermediate Calculus
MATH 323	(3)	Probability Theory
MATH 324	(3)	Statistics

Complementary Courses (9 to 11 credits)

selected from the following:

COMP 303	(3)	Programming Techniques
COMP 335	(3)	Software Engineering Methods
COMP 350	(3)	Numerical Computing
COMP 409	(3)	Concurrent Programming

COMP 410	(3)	Mobile Computing
COMP 412	(3)	Software for e-commerce
COMP 420	(3)	Files and Databases
COMP 421	(3)	Database Systems
COMP 424	(3)	Artificial Intelligence 1
COMP 433	(3)	Personal Software Engineering
COMP 435	(3)	Basics of Computer Networks
COMP 505	(3)	High-Performance Computer Architecture
COMP 520	(4)	Compiler Design
COMP 522	(4)	Modelling and Simulation
COMP 525	(3)	Formal Verification
COMP 526	(3)	Probabilistic Reasoning and AI
COMP 535	(3)	Computer Networks
COMP 537	(3)	Internet Programming
COMP 547	(3)	Cryptography and Data Security
COMP 558	(3)	Fundamentals of Computer Vision
COMP 560	(3)	Graph Algorithms and Applications
COMP 566	(3)	Discrete Optimization 1
COMP 575	(3)	Fundamentals of Distributed Algorithms
COMP 577	(3)	Distributed Database Systems
ECSE 200	(3)	Fundamentals of Electrical Engineering
ECSE 210	(3)	Circuit Analysis
ECSE 291	(2)	Electrical Measurement Lab
ECSE 303	(3)	Signals and Systems 1
ECSE 304	(3)	Signals and Systems 2
ECSE 322	(3)	Computer Engineering
ECSE 323	(5)	Digital Systems Design
ECSE 404	(3)	Control Systems
ECSE 411	(3)	Communications Systems
ECSE 420	(3)	Parallel Computing
ECSE 421	(3)	Embedded Systems
ECSE 422	(3)	Fault-Tolerant Computing
ECSE 424	(3)	Human-Computer Interaction
ECSE 425	(3)	Computer Organization and Architecture
ECSE 426	(3)	Microprocessor Systems
or COMP 573	(3)	Microcomputers
ECSE 504	(3)	Computer Control
ECSE 522	(3)	Asynchronous Circuits and Systems
ECSE 526	(3)	Artificial Intelligence
ECSE 529	(3)	Image Processing & Communication
ECSE 530	(3)	Logic Synthesis
ECSE 531	(3)	Real Time Systems
ECSE 532	(3)	Computer Graphics
or COMP 557	(3)	Fundamentals of Computer Graphics
MATH 261	(3)	Differential Equations
MATH 381	(3)	Complex Variables and Transforms

HONOURS PROGRAM IN COMPUTER SCIENCE (72 credits)

Honours students must maintain a CGPA of 3.00 and must have at least this average upon graduation as well.

Required Courses (45 credits)

all Major Program required courses, plus
COMP 400 (3) Technical Project and Report

Complementary Courses (27 credits)

24 credits from Major Program in Computer Science
complementary courses in Computer Science.

3 credits from Major Program in Computer Science
complementary courses in Mathematics.

6.4 Physics

JOINT HONOURS PROGRAM IN PHYSICS AND CHEMISTRY (80 credits)

This is a specialized and demanding program intended primarily, although not exclusively, for students with a theoretical bias who are interested in working in fields of study at the crossroads of physical chemistry and physics. The program will prepare students for either theoretical or experimental graduate work in depart-

ments where there is an emphasis on such cross-disciplinary areas as condensed matter physics, chemical physics, or material science.

A student whose average in the required and complementary courses in any year falls below a GPA of 3.00, or whose grade in any individual required or complementary course falls below a C (in both the final examination and supplemental examination if taken), may not register in this Joint Honours program the following year, or graduate with the Joint Honours degree, except with permission of both Departments.

U1 Required Courses (28 credits)

CHEM 213	(3)	Physical Chemistry 1
CHEM 273	(1)	Chemical Kinetics
MATH 247	(3)	Linear Algebra
MATH 248	(3)	Advanced Calculus 1
MATH 249	(3)	Advanced Calculus 2
MATH 325	(3)	Ordinary Differential Equations
PHYS 241	(3)	Signal Processing
PHYS 251	(3)	Classical Mechanics 1
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2

U2 Required Courses (26 credits)

CHEM 212	(4)	Organic Chemistry 1
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 355	(3)	Molecular Properties & Structure 2
CHEM 363	(2)	Physical Chemistry Lab
CHEM 365	(2)	Statistical Thermodynamics
COMP 208	(3)	Computers in Engineering
PHYS 350	(3)	Electromagnetism
PHYS 357	(3)	Quantum Physics 1
PHYS 457	(3)	Quantum Physics 2

U3 Required Courses (14 credits)

CHEM 393	(2)	Physical Chemistry Lab 2
CHEM 455	(3)	Polymer Chemistry
CHEM 556	(3)	Advanced Quantum Mechanics
PHYS 352	(3)	Electromagnetic Waves
PHYS 558	(3)	Solid State Physics

U3 Complementary Courses (12 credits)

(with at least 3 credits in Chemistry and 3 credits in Physics)

3 credits selected from:

CHEM 593	(3)	Statistical Mechanics
PHYS 559	(3)	Advanced Statistical Mechanics

9 credits selected from:

CHEM 480	(3)	Research Project
and CHEM 490	(3)	Research Project
CHEM 531	(3)	Chemistry of Inorganic Materials
CHEM 575	(3)	Chemical Kinetics
CHEM 585	(3)	Colloid Chemistry
MATH 375	(3)	Differential Equations
PHYS 434	(3)	Optics
PHYS 451	(3)	Classical Mechanics
PHYS 469	(3)	Lab in Modern Physics 2
PHYS 479	(3)	Honours Project Lab
PHYS 562	(3)	Electromagnetic Theory

6.5 Psychology

B.SC. FACULTY PROGRAM IN PSYCHOLOGY (54 credits)

U1 Required Courses (12 credits)

PSYC 211	(3)	Intro. Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

Note: PSYC 100 may be taken as a corequisite with these basic courses.

Complementary Courses (42 credits)

6 credits in Psychology from List A

6 credits in Psychology from List B
6 credits in Psychology at the 300 level or above
6 credits in Psychology 400 or 500 level

18 approved credits, at least 9 of which are at the 300 level or above

B.SC. MAJOR PROGRAM IN PSYCHOLOGY (54 credits)

U1 Required Courses (12 credits)

PSYC 211	(3)	Intro. Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

Note: PSYC 100 may be taken as a corequisite with these basic courses.

U1 or U2 Required Course (3 credits)

PSYC 305	(3)	Statistics for Experimental Design
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Complementary Courses (39 credits)

6 credits in Psychology from List A
6 credits in Psychology from List B
6 credits in Psychology at the 300 level or above
9 credits in Psychology 400 or 500 level
12 credits at the 300 level or above in one of the following disciplines: Psychology (PSYC), Anatomy and Cell Biology (ANAT), Biology (BIOL), Biochemistry (BIOC), Chemistry (CHEM), Computer Science (COMP), Mathematics (MATH), Physiology (PHGY), Psychiatry (PSYT).

B.SC. HONOURS PROGRAM IN PSYCHOLOGY (54 credits)

Students should note that awarding of the Honours degree will depend on both cumulative grade point average and a minimum grade of B on PSYC 380D1/PSYC 380D2, PSYC 481D1/PSYC 481D2, PSYC 482 and PSYC 483. "First Class Honours" is awarded to students who obtain a minimum cumulative grade point average of 3.50 and a minimum CGPA of 3.50 in the four Honours courses of which 12 out of 18 credits received at least an A- grade. "Honours" is awarded to students with a minimum cumulative grade point average of 3.00 and a minimum GPA of 3.00 on each of the four honours courses. Moreover, the awarding of the Honours degree normally requires completion of two full years of study, U2 and U3, in the Psychology Department. Exceptionally good students may be admitted for the U3 year only on the basis of their marks and research experience, however these students must complete 9 credits from List A and 9 credits from List B.

U1 Required Courses (12 credits)

PSYC 211	(3)	Intro. Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

Note: PSYC 100 may be taken as a corequisite with these basic courses.

U1 or U2 Required Course (3 credits)

PSYC 305	(3)	Statistics for Experimental Design
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U2 Required Courses (6 credits)

PSYC 380D1	(3)	Honours Research Project and Seminar
PSYC 380D2	(3)	Honours Research Project and Seminar

U3 Required Courses (12 credits)

PSYC 481D1	(3)	Honours Thesis Research
PSYC 481D2	(3)	Honours Thesis Research
PSYC 482	(3)	Advanced Honours Seminar 1
PSYC 483	(3)	Advanced Honours Seminar 2

Complementary Courses (21 credits)

6 credits in Psychology from List A
6 credits in Psychology from List B
9 credits at the 300 level or higher selected from: Psychology (PSYC), Anatomy and Cell Biology (ANAT), Biology (BIOL), Biochemistry (BIOC), Chemistry (CHEM), Computer Science (COMP), Mathematics (MATH), Physiology (PHGY), Psychiatry (PSYT).

List A**(Behavioural Neuroscience, Cognition and Quantitative Methods)**

PSYC 301	(3)	Learning
PSYC 308	(3)	Behavioural Neuroscience 1
PSYC 310	(3)	Human Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 334	(3)	Computer Simulation - Psychological Processes
PSYC 335	(3)	Formal Models: Psychological Processes
PSYC 336	(3)	Measurement of Psychological Processes
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Laboratory in Cognitive Psychology
PSYC 353	(3)	Laboratory in Human Perception
PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 406	(3)	Psychological Tests and Measurements
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Behaviour
PSYC 451	(3)	Human Factors Research and Techniques
PSYC 470	(3)	Memory and Brain
PSYC 472	(3)	Scientific Thinking and Reasoning
PSYC 503	(3)	Computational Psychology
PSYC 505	(3)	The Psychology of Pain
PSYC 510	(3)	Statistical Analysis of Tests
PSYC 522	(3)	Neurochemical Basis of Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 531	(3)	Structural Equation Models
PSYC 532	(3)	Cognitive Science
PSYC 536	(3)	Correlational Techniques

List B (Social, Health and Developmental Psychology)

PSYC 304	(3)	Child Development
PSYC 316	(3)	Psychology of Deafness
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 337	(3)	Intro: Abnormal Psychology 1
PSYC 338	(3)	Intro: Abnormal Psychology 2
PSYC 343	(3)	Language Acquisition in Children
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 408	(3)	Principles of Cognitive Behaviour Therapy
PSYC 412	(3)	Deviations in Child Development
PSYC 414	(3)	Social Development
PSYC 416	(3)	Advanced Topics in Child Development
PSYC 429	(3)	Health Psychology
PSYC 436	(3)	Human Sexuality and its Problems
PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships
PSYC 491D1	(3)	Advanced Study: Behavioural Disorders
and PSYC 491D2	(3)	Advanced Study: Behavioural Disorders
PSYC 511	(3)	Infant Competence
PSYC 530	(3)	Applied Topics in Deafness
PSYC 533	(3)	International Health Psychology
PSYC 534	(3)	Community Psychology
PSYC 535	(3)	Advanced Topics in Social Psychology

Unclassified Courses

PSYC 450D1	(3)	Research Project and Seminar
and PSYC 450D2	(3)	Research Project and Seminar
PSYC 492	(3)	Seminar in Special Topics
PSYC 493	(3)	Seminar in Special Topics
PSYC 495	(3)	Psychology Research Project

6.6 Science for Teachers**Biology Course Lists used in Various Options****Biology List A: (22 credits)**

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 206	(3)	Methods in Biology of Organisms
BIOL 208	(3)	Introduction to Ecology
BIOL 301	(4)	Cell and Molecular Laboratory

Biology List B: (9 credits)

to be selected from the following:

BIOL 304	(3)	Evolution
BIOL 370	(3)	Human Genetics Applied
PHGY 201	(3)	Human Physiology: Control Systems
or PHGY 209	(3)	Mammalian Physiology 1

Biology List C: (6 credits)

to be selected from the following:

BIOL 465	(3)	Conservation Biology
BIOL 331	(3)	Ecology / Behaviour Field Course
or BIOL 334	(3)	Applied Tropical Ecology
or BIOL 335	(3)	Marine Mammals
or BIOL 336	(3)	Marine Aquaculture
or BIOL 337	(3)	Ecology and Behaviour of Fishes

7 School of Environment**B.A. FACULTY PROGRAM IN ENVIRONMENT ENVIRONMENT AND DEVELOPMENT DOMAIN**

Correction:

ECON 208 belongs in the third group of Domain Complementary Courses.

This Domain (54 credits including Core) is open only to students in the B.A. Faculty Program in Environment.

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.****Core – Required Courses (18 credits)**

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society and Environment
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
ENVR 401*	(3)	Environmental Research

* Students taking ENVR 401 in Sept. 2002 must contact the Program Coordinator prior to registering, email: info.mse@mcgill.ca

Domain – Required Courses (15 credits)

ANTH 339	(3)	Ecological Anthropology
BIOL 208	(3)	Ecology
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
GEOG 302	(3)	Environmental Management 1

Domain – Complementary Courses (21 credits)

3 credits in statistics to be chosen from:

MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
(or equivalent)		
SOCI 350	(3)	Statistics in Social Research

6 credits to be chosen from the following:

- ANTH 418 (3) Environment and Development
- GEOG 408 (3) Geography of Development
- GEOG 410 (3) Geography of Underdevelopment: Current Problems

12 credits to be chosen from the following:

- ECON 208 (3) Microeconomic Analysis and Applications
(NB: this course is a prerequisite for the required course ECON 313)
- AGEC 333 (3) Resource Economics (*M*)
- AGEC 430 (3) Agriculture, Food and Resource Policy (*M*)
- AGEC 442 (3) Economics of International Agricultural Development (*M*)
- AGRI 210 (3) Agro-Ecological History (*M*)
- AGRI 411 (3) International Agriculture (*M*)
- ANTH 349 (3) Transformation of Developing Countries
- ANTH 358 (3) Process of Anthropological Research
- ANTH 439 (3) Theories of Development
- ANTH 445 (3) Property and Land Tenure
- BIOL 465 (3) Conservation Biology
- BIOL 535 (3) Political Ecology
- BIOL 553 (3) Neotropical Environments (in Panama)
- BIOL 560 (3) Aquatic Conservation
- ECON 326 (3) Ecological Economics
- ECON 405 (3) Natural Resource Economics
- ECON 412 (3) Topics in Economic Development 1
- ECON 416 (3) Topics in Economic Development 2
- GEOG 300 (3) Human Ecology in Geography
- GEOG 305 (3) Geography of Soils
- GEOG 322 (3) Environmental Hydrology
- GEOG 331 (3) Urban Social Geography
- GEOG 404 (3) Environmental Management 2 (in Panama or Africa)
- GEOG 408 (3) Geography of Development
- GEOG 496 (3) Geographical Excursion
- GEOG 498 (3) Humans in Tropical Environments (in Panama)
- GEOG 500 (3) Geography of Regional Identity
- GEOG 502 (3) Geography of Northern Development
- GEOG 510 (3) Humid Tropical Environments
- GEOG 551 (3) Environmental Decisions
- HIST 292 (3) History and the Environment
- HIST 473D1 (3) Topics: Environmental History
- HIST 473D2 (3) Topics: Environmental History
- INTD 497 (3) Research Seminar on International Development
- MGPO 440 (3) Strategies for Sustainable Development
- MGPO 567 (3) Business in Society
- NUTR 406 (3) Ecology of Human Nutrition (*M*)
- NUTR 501 (3) Nutrition in Developing Countries (*M*)
- PARA 410 (3) Environment and Infection (*M*)
- POLI 338 (3) Developing Areas/Topics 1
- POLI 422 (3) Developing Areas/ Topics 2
- POLI 445 (3) IPE: North-South Relations
- POLI 472 (3) Developing Areas/ Social Movements
- POLI 522 (3) Developing Areas/Honours Seminar
- SOCI 328 (3) Environmental Sociology
- SOCI 354 (3) Dynamics of Industrial Societies
- SOCI 550 (3) Sociology of Developing Societies
- SWRK 532 (3) International Social Work
- URBP 505 (3) Geographic Information Systems
- WILD 375 (3) Issues in Environmental Sciences (*M*)
- WILD 380 (3) Law and Land Use Policy (*M*)
- WILD 415 (2) Conservation Law (*M*)