

To be appended to Program Change Proposal for:

## BA&Sc; Environment;

(basc\_environment\_revision\_2008.doc)

### Course list

Deleted courses shown as ~~strikeout~~, added courses shown as underlined italics. Courses at Macdonald Campus are shown with (M). Superscript numbers <sup>(1)</sup> refer to notes in the Rationale.

Current Program (54 credits)

#### 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 301 (3) Environmental Research Design  
 ENVR 400 (3) Environmental Thought

#### Complementary Courses (36 credits)

3 credits\* - Senior Research Project  
 AGRI 519 (6) Sustainable Development Plans (in Barbados)  
 ENVR 401 (3) Environmental Research  
 ENVR 451 (6) Research in Panama (in Panama)  
 \* Only 3 credits will be applied to the program; extra credits will count as electives.

3 credits of statistics:

AEMA 310 (3) Statistical Methods 1 (M)  
 BIOL 373 (3) Biometry  
 GEOG 202 (3) Statistics and Spatial Analysis  
 PSYC 204 (3) Introduction to Psychological Statistics

30 credits - students must take courses from 3 of the following areas and at least 6 credits must be at the 400-level or higher, selected either from these lists or in consultation with the program advisor

#### Area 1: Population, Community and Ecosystem Ecology

BIOL 308 (3) Ecological Dynamics  
 BIOL 432 (3) Limnology  
 BIOL 441 (3) Biological Oceanography  
 ENVR 540 (3) Ecology of Species Invasions  
 or BIOL 540 (3) Ecology of Species Invasions  
 GEOG 350 (3) Ecological Biogeography  
 PLNT 460 (3) Plant Ecology (M)  
 WILD 205 (3) Principles of Ecology (M)  
 WILD 410 (3) Wildlife Ecology (M)  
 WOOD 410 (3) The Forest Ecosystem (M)

#### Area 2: Biodiversity and Conservation

BIOL 305 (3) Animal Diversity  
 BIOL 327 (3) Herpetology  
 BIOL 341 (3) History of Life.  
 BIOL 355 (3) Trees: Ecology & Evolution  
 BIOL 465 (3) Conservation Biology  
 ENTO 440 (3) Systematic Entomology (M)

Proposed Program (54 credits)

#### 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 301 (3) Environmental Research Design  
 ENVR 400 (3) Environmental Thought

#### Complementary Courses (36 credits)

3 credits\* - Senior Research Project  
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 \* Only 3 credits will be applied to the program; extra credits will count as electives.

3 credits of statistics:

AEMA 310 (3) Statistical Methods 1 (M)  
 BIOL 373 (3) Biometry  
 GEOG 202 (3) Statistics and Spatial Analysis  
<sup>1</sup> **MATH 203 (3) Principles of Statistics 1**  
 PSYC 204 (3) Introduction to Psychological Statistics

30 credits - students must take courses from <sup>2</sup> **at least** 3 of the following areas and at least 6 credits must be at the 400-level or higher, selected either from these lists or in consultation with the prog

\_\_\_\_\_ and Community Ecology (M)

WILD 410 (3) Wildlife Ecology (M)  
<sup>3</sup> **ENVB 410 (3) Ecosystem Ecology (M)**

#### Area 2: Biodiversity and Conservation

BIOL 305 (3) Animal Diversit

MICR 331 (3) Microbial Ecology (M)  
PLNT 358 (3) Flowering Plant Diversity (M)  
WILD 307 (3) Natural History of Vertebrates (M)  
WILD 350 (3) Mammalogy (M)  
WILD 420 (3) Ornithology (M)

**Area 3: Field studies eTT20 Tm(y)TP 0 0 64907997 Tm(A91 Tc2862 193r 27162 C P MICID02 15114001 Tm(Arelt114907997 T**

GEOG 410 (3) Geography of Underdevelopment:  
Current Problems  
POLI 227 (3) Developing Areas/Introduction  
POLI 445 (3) International Political Economy:  
Monetary Relations  
SWRK 374 (3) Community Development/Social  
Action

**Area 9: Cultures and People**

ANTH 206 (3) Environment and Culture  
ANTH 339 (3) Ecological Anthropology  
GEOG 210 (3) Global Places and Peoples

**Area 10: Human Ecology and Health**

ANTH 227 (3) Medical Anthropology  
GEOG 300 (3) Human Ecology in Geography  
GEOG 303 (3) Health Geography  
PHIL 343 (3) Biomedical Ethics  
SOC 225 (3) Medicine and Health in Modern  
Society  
SOC 309 (3) Health and Illness

**Area 11: Spirituality, Philosophy, Thought**

EDER 461 (3) Society and Change  
PHIL 220 (3) Introduction to History and Philo6

## Rationale

1. Students in this program come from diverse backgrounds and areas of study. They have needed to take MATH 203 as an equivalent statistics course for this Complementary Course requirement. MATH 203 already exists in the programs for six of the Science domains, and all three of the Arts domains.
2. It has always been the intent of the program that students could take courses from many areas, as long as they have a coherent program overall. We wanted to avoid having students take all their courses in one or two areas, so we specified three as a minimum, but some students took this to mean three areas maximum.
3. Course names and numbers changed associated with Faculty of Agricultural and Environmental Sciences program changes:
  - WILD 205 (3) Principles of Ecology – now: ENVB 305 (3) Population and Community Ecology
  - WOOD 410 (3) The Forest Ecosystem – now: ENVB 410 (3) Ecosystem Ecology
  - ENTO 440 (3) Systematic Entomology – now: ENTO 440 (3) Insect Diversity
  - SOIL 326 (3) Soil Genesis and Classification – now: SOIL 326 (3) Soils in a Changing Environment
  - NRSC 333 (3) Physical and Biological Aspects of Pollution – now: NRSC 333 (3) Pollution and Bioremediation