

ENVIRONMENTAL BIOLOGY MAJOR (B.SC.(AG.ENV.SC.)) (42 CREDITS)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 42

Program Description

The Environmental Biology Major is about the biology, diversity, and ecology of a broad range of organisms, from plant and vertebrate animals to insects, fungi, and microbes. This Major places a strong emphasis on the ecosystems that species inhabit and the constraints imposed by the physical environment and by environmental change. Environmental Biology has significant field components worked into the course sets, and through this experiential learning, biological diversity, and the ways that species interact with their physical environment in a variety of ecosystems will be studied. The Major makes full use of the unique physical setting and faculty expertise of McGill's Macdonald campus to train students to become ecologists, taxonomists, field biologists, and ecosystem scientists.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Program Prerequisites

Please refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this Course Catalogue for information on prerequisites and minimum credit requirements.

Required Courses (36 credits)

Expand allContract all

Course	Title	Credits
AEBI 210	Organisms 1.	3
AEBI 211	Organisms 2.	3
AEBI 212	Evolution and Phylogeny.	3
AEHM 205	Science Literacy.	3
AEMA 310	Statistical Methods 1.	3
ENVB 210	The Biophysical Environment.	3
ENVB 222	St. Lawrence Ecosystems.	3
ENVB 305	Population and Community Ecology.	3
ENVB 410	Ecosystem Ecology.	3
LSCI 204	Genetics.	3
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3

Complementary Courses (6 credits)

6 credits of complementary courses selected from:

Expand allContract all

Course	Title	Credits
ENTO 330	Insect Biology.	3
ENVB 301	Meteorology.	3
ENVB 313	Phylogeny and Biogeography.	3
ENVB 437	Assessing Environmental Impact.	3
ENVB 497	Research Project 1.	3
ENVB 498	Research Project 2.	3
FAES 300	Internship 2.	3
MICR 331	Microbial Ecology.	3
PLNT 304	Biology of Fungi.	3
PLNT 358	Flowering Plant Diversity.	3
PLNT 460	Plant Ecology.	3
SOIL 300	Geosystems.	3
WILD 302	Fish Ecology.	3
WILD 307	Natural History of Vertebrates.	3
WOOD 441	Integrated Forest Management.	3

Specialization

At least one specialization of 18-24 credits.

Specializations designed to be taken with the Environmental Biology Major:

- Applied Ecology
- Plant Biology
- Wildlife Biology

Note: For a complete list of specializations offered for students in the Bachelor of Science in Agricultural and Environmental Sciences, refer to "Browse Academic Units & Programs" > "Bachelor of Science (Agricultural and Environmental Sciences) - B.Sc.(Ag.Env.Sc.)" > "Specializations", in this eCalendar. Consult the Academic Adviser for approval of specializations other than those listed above.

Electives

To meet the minimum credit requirement for the degree.