

ECOLOGICAL AGRICULTURE (CERTIFICATE) (30 CREDITS)

Offered by: Agricultural Economics (Faculty of Agricultural and Environmental Sciences)

Degree: Certificate in Ecological Agriculture

Program credit weight: 30

Program Description

This 30-credit certificate program is very similar to the Minor program and is designed to focus on the principles underlying the practice of ecological agriculture. The certificate may be of special interest to professional agrologists who want further training, as well as formal recognition that they have completed a coherent program of courses beyond their B.Sc. studies.

Students holding a B.Sc. in agriculture or a related area are eligible to register for this program provided that they are otherwise acceptable for admission to the University. Students who have completed the Minor or specialization in Ecological Agriculture are not permitted to register for this program.

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

General Regulations

To obtain a certificate in Ecological Agriculture, students must complete a minimum total of 30 credits from the courses as given below.

Notes:

1. Most courses listed at the 300 level and higher have prerequisites. Although instructors may waive prerequisite(s) in some cases, students are urged to prepare their program of study to ensure that they have met all conditions.
2. Students using AGRI 310 Internship in Agriculture/Environment toward the requirements of the Specialization/Minor/Certificate are limited to an experience on farms or other enterprises that are organic, biodynamic, or practising permaculture. The placement must be approved by the academic adviser for the specialization/Minor/certificate.

Note: For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
AGEC 430	Agriculture, Food and Resource Policy.	3
AGRI 215	Agro-Ecosystems Field Course.	3

AGRI 340	Principles of Ecological Agriculture.	3
SOIL 535	Soil Ecology.	3

Complementary Courses (18 credits)

18 credits chosen from the following, in consultation with the Academic Adviser for Ecological Agriculture.

Expand allContract all

Course	Title	Credits
AGRI 310	Internship in Agriculture/Environment.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3
ANSC 312	Animal Health and Disease.	3
ENTO 352	Biocontrol of Pest Insects.	3
ENVB 305	Population and Community Ecology.	3
ENVB 415	Ecosystem Management.	3
MICR 331	Microbial Ecology.	3
NUTR 341	Global Food Security.	3
PARA 424	Fundamental Parasitology.	3
PLNT 302	Forage Crops and Pastures.	3
PLNT 307	Agroecology of Vegetables and Fruits.	3
PLNT 434	Weed Biology and Control.	3
PLNT 460	Plant Ecology.	3
SOIL 326	Soils in a Changing Environment.	3
WOOD 441	Integrated Forest Management.	3