

AGROECOLOGY, B.SC.

Degree Requirements

Course	Title	Hours
B.Sc. Agroecology Degree Core		
ABIZ 1000	Introduction to Agribusiness Management	3
ABIZ/ECON 2390	Introduction to Environmental Economics	3
AGEC 2370/ BIOL 2300	Principles of Ecology	3
AGRI 1600	Introduction to Agrifood Systems	3
AGRI 2030	Technical Communications	3
AGRI 2400	Experimental Methods in Agricultural and Food Sciences	3
AGRI 4100	Current Issues in Agricultural Systems	3
ANSC 2500	Animal Production	3
BIOL 1020	Biology 1: Principles and Themes	3
BIOL 1030	Biology 2: Biological Diversity, Function and Interactions	3
BIOL 3312	Community Ecology	3
CHEM 1100	Introductory Chemistry 1: Atomic and Molecular Structure and Energetics	3
CHEM 1130 or CHEM 1110	Introduction to Organic Chemistry ¹ Introductory Chemistry 2: Interaction, Reactivity, and Chemical Properties	3
ECON 1010	Introduction to Microeconomic Principles	3
ENTM 3170	Crop Protection Entomology	3
HNSC 1200 or HNSC 1210	Food: Facts and Fallacies Nutrition for Health and Changing Lifestyles	3
PLNT 2500	Crop Production	3
PLNT 2520 or BIOL 2500	Genetics Genetics 1	3
PLNT 3540	Weed Science	3
PLNT 4270	Plant Disease Control	3
SOIL 3600	Soils and Landscapes in Our Environment	3
Restricted Electives		
Four courses from Group 1 - Integrated Systems		12
Two courses from Group 2 - Land Science		6
One course from Group 3 - Policy and Economics		3
Two courses from Group 4 - Agrology		6
Free Electives		
30 credit hours ²		30
Total Hours		120

¹ Students can hold CHEM 2100 (Organic Chemistry 1: Foundations of Organic Chemistry) in place of CHEM 1130 (Introduction to Organic Chemistry).

² Students can apply for the Cooperative Education Program. Three work terms are required to graduate with Co-op designation. Co-op courses (3 credit hours each) are used towards free electives.

Restricted Electives

Group 1 – Integrated Systems

Course	Title	Hours
AGRI 2300	Indigenous Issues in Food Systems	3
ANSC/PLNT 4410	Grassland Agriculture: Plant, Animal and Environment	3
PLNT 3560	Organic Crop Production on the Prairies	3
PLNT 4510	Advanced Cropping Systems	3
SOIL 4400	SOIL ECOLOGY	3

Group 2 – Land Science

Course	Title	Hours
SOIL 3XXX	Any 3000 level SOIL (Soil Science) courses	
SOIL 4XXX	Any 4000 level SOIL (Soil Science) courses	

Group 3 – Policy and Economics

Course	Title	Hours
ABIZ 2XXX	Any 2000 level ABIZ (Agribusiness) course	
ABIZ 3XXX	Any 3000 level ABIZ (Agribusiness) course	
ABIZ 4XXX	Any 4000 level ABIZ (Agribusiness) course	

Group 4 - Agrology

Course	Title	Hours
ABIZ XXXX	Any ABIZ course	
AGRI 2300	Indigenous Issues in Food Systems	3
AGRI 3100	Introduction to Digital Agriculture	3
AGRI 3500	Geographical Information Systems (GIS) Applications in Agriculture	3
ANSC XXXX	Any ANSC course	
BIOE 3100	Agricultural Engineering Fundamentals for Agronomists	3
ENTM XXXX	Any ENTM except the following:	
ENTM 3162	Manitoba's Insect Fauna	
ENTM 4280	Aquatic Entomology	
ENTM 4500	Insect Taxonomy and Morphology	
FOOD XXXX	Any FOOD course except the following:	
FOOD 4100	Current Issues in Food and Human Nutrition	
FOOD 4230	Food Research	
PLNT XXXX	Any PLNT course except the following:	
PLNT 3140	Introductory Cytogenetics	
PLNT 4380	Plant Science Thesis	
SOIL XXXX	Any SOIL course	