

# B.Sc. in Agroecology

## Year 1

Course No.	Course Name	Credit Hours
ABIZ 1000	Introduction to Agribusiness Management	3
AGRI 1600	Introduction to Agrifood Systems	3
BIOL 1020	Biology 1: Principles and Themes	3
BIOL 1030	Biology 2: Biological Diversity, Function and Interactions	3
CHEM 1100	Introductory Chemistry 1: Atomic and Molecular Structure and Energetics	3
CHEM 1110	Introductory Chemistry 2: Interaction, Reactivity, and Chemical Properties	3
or CHEM 1130 <sup>1</sup>	or Introduction to Organic Chemistry	
ECON 1010	Introduction to Microeconomic Principles	3
HNSC 1200	Food: Facts and Fallacies	3
or HNSC 1210	or Nutrition for Health and Changing Lifestyles	
Free Electives <sup>2</sup>		6
<b>Total Credit Hours</b>		<b>30</b>

## Year 2

Course No.	Course Name	Credit Hours
ABIZ 2390/ ECON 2390	Introduction to Environmental Economics	3
AGEC 2370/ BIOL 2300	Principles of Ecology	3
AGRI 2030	Technical Communications	3
AGRI 2400	Experimental Methods in Agricultural and Food Sciences	3
ANSC 2500	Animal Production	3
PLNT 2500	Crop Production	3
PLNT 2520/ BIOL 2500	Genetics	3
SOIL 3600	Soils and Landscapes	3
Restricted <sup>3</sup> /Free Electives <sup>2</sup>		6
<b>Total Credit Hours</b>		<b>30</b>

## Year 3

Course No.	Course Name	Credit Hours
BIOL 3312	Community Ecology	3
PLNT 4270	Plant Disease Control	3
ENTM 3170	Crop Protection Entomology	3
PLNT 3540	Weed Science	3
Restricted <sup>3</sup> /Free Electives <sup>2</sup>		18
<b>Total Credit Hours</b>		<b>30</b>

Note: Any discrepancies between this document and the Academic Calendar, the Academic Calendar takes precedent.

**Year 4**

Course No.	Course Name	Credit Hours
AGRI 4100	Current Issues in Agricultural Systems	3
Restricted <sup>3</sup> /Free Electives <sup>2</sup>		27
<b>Total Credit Hours</b>		<b>30</b>

**Notes:**

1. CHEM 2100 (Organic Chemistry 1: Foundations of Organic Chemistry) can be substituted for CHEM 1130 (Introduction to Organic Chemistry).
2. There are 30 credit hours of Free Electives required in the Agroecology program. Students may apply for the [Cooperative Education Program](#). Two work terms are required to graduate with Co-op designation. Co-op courses (3 credit hours each) are used towards free electives.
3. There are 27 credit hours of Restricted Electives required in the Agroecology program. Students must complete:

Restricted Electives	Credit Hours
<b>Group 1 – Integrated Systems:</b> choose <u>four courses</u> from the following:	12
AGRI 2300                      Indigenous Issues in Food Systems	
ANSC 4410/ PLNT 4410                      Grassland Agriculture: Plant, Animal and Environment	
PLNT 3560                      Organic Production	
PLNT 4510                      Advanced Cropping Systems	
SOIL 4400                      Soil Ecology	
<b>Group 2 - Land Science:</b> choose two courses from the following:	6
Any 3000 or 4000 level SOIL (Soil Science) courses	
<b>Group 3 - Policy and Economics:</b> choose <u>one course</u> from the following:	3
Any 2000, 3000 or 4000 level ABIZ (Agribusiness) course	
<b>Group 4 – Agrology:</b> choose <u>two courses</u> from the following	6
Any ABIZ course; AGRI 2300; Any ANSC course; BIOE 3100; Any ENTM except ENTM 3162, ENTM 4280 or ENTM 4500; Any FOOD course except FOOD 4100 and FOOD 4230; Any PLNT course except PLNT 3140 or PLNT 4380; Any SOIL course.	