

## B.Sc. in Agriculture (Agronomy)

### 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	
MATH 1300 <sup>2</sup>	Vector Geometry and Linear Algebra	3
or MATH 1210 <sup>2</sup>	or Techniques of Classical and Linear Algebra	
or MATH 1500 <sup>2</sup>	or Introduction to Calculus	
or MATH 1510 <sup>2</sup>	or Applied Calculus 1	
or MATH 1524 <sup>2</sup>	or Mathematics for Management and Social Sciences	
Free Elective <sup>3</sup>		3
<b>Total Credit Hours</b>		<b>30</b>

### Year 2

Course No.	Course Name	Credit Hours
ABIZ 2510	Introduction to Agricultural and Food Marketing	3
AGEC 2370/BIOL 2300	Principles of Ecology	3
AGRI 2030	Technical Communications	3
AGRI 2400	Experimental Methods in Agricultural and Food Sciences	3
BIOL 2242	The Flowering Plants	3
PLNT 2500	Crop Production	3
PLNT 2520/BIOL 2500	Genetics	3
SOIL 3600	Soils and Landscapes in Our Environment	3
Restricted <sup>4</sup> /Free Electives <sup>3</sup> /Co-op		6
<b>Total Credit Hours</b>		<b>30</b>

### Year 3

Course No.	Course Name	Credit Hours
ANSC 2500	Animal Production	3
BIOE 3100	Agricultural Engineering Fundamentals for Agronomists	3
ENTM 3170	Crop Protection Entomology	3
PLNT 3540	Weed Science	3
PLNT 4270	Plant Disease Control	3
PLNT 4590	Physiology of Crop Plants	3
Restricted <sup>4</sup> /Free Electives <sup>3</sup> /Co-op		12

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

**Total Credit Hours** 30

#### Year 4

Course No.	Course Name	Credit Hours
AGRI 4100	Current Issues in Agricultural Systems	3
PLNT 4510	Advanced Cropping Systems	3
SOIL 4510	Soil and Water Management	3
SOIL 4520	Soil Fertility	3
Restricted <sup>4</sup> /Free Electives <sup>3</sup> /Co-op		18
<b>Total Credit Hours</b>		<b>30</b>

#### Notes:

- CHEM 2100 (Organic Chemistry 1: Foundations of Organic Chemistry) can be substituted for CHEM 1130 (Introduction to Organic Chemistry).
- Students are recommended to take one of the MATH courses listed in the program requirements above however may also use either MATH 1220 or MATH 1230 to meet the requirement.
- There are 30 credit hours of Free Electives required in the Agronomy 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.

Students considering graduate school in agriculture or a related field in the natural sciences are recommended to take CHEM 1120 (Introduction to Chemical Techniques) and CHEM 2730 (Elements of Biochemistry 1) as Free Electives.

- There are 9 credit hours of Restricted Electives required in the Agronomy program. Students must complete:

Restricted Electives	Credit Hours
<b>Group 1 - Agriculture</b> – choose <u>two courses</u> from the following list:	6
AGRI 2300	Indigenous Issues in Food Systems
PLNT 1000	Urban Agriculture
PLNT 2510*	Fundamentals of Horticulture
PLNT 3520	Principles of Plant Improvement
PLNT 3560	Organic Crop Production on the Prairies
PLNT 4410	Grassland Agriculture: Plant, Animal and Environment
<b>Group 2 – Soil Science</b> – choose <u>one course</u> at the 3000 or 4000 level from Soil Science (SOIL). Courses required as part of the Agriculture Degree Core or Agronomy Core cannot also be used to meet this requirement.	3

\*This course is usually offered every 2nd year - planning ahead is important.