

AGRONOMY, B.SC. - AGRICULTURE

Degree Requirements

Course	Title	Hours
B.Sc. Agriculture Degree Core		
ABIZ 1000	Introduction to Agribusiness Management	3
ABIZ 2510	Introduction to Agricultural and Food Marketing	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
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
HNSC 1200 or HNSC 1210	Food: Facts and Fallacies Nutrition for Health and Changing Lifestyles	3
One of the following: ²		3
MATH 1210	Techniques of Classical and Linear Algebra	
MATH 1300	Vector Geometry and Linear Algebra	
MATH 1500	Introduction to Calculus	
MATH 1510	Applied Calculus 1	
MATH 1524	Mathematics for Management and Social Sciences	
PLNT 2500	Crop Production	3
PLNT 2520 or BIOL 2500	Genetics Genetics 1	3
SOIL 3600	Soils and Landscapes in Our Environment	3
Agronomy Core		
BIOL 2242	The Flowering Plants	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 4510	Advanced Cropping Systems	3
PLNT 4590	Physiology of Crop Plants	3
SOIL 4510	Soil and Water Management	3
SOIL 4520	Soil Fertility	3
Restricted Electives		
6 credit hours from Group 1 - Agriculture		6
3 credit hours from Group 2 - Soil Science ³		3

Free Electives	
30 credits hours ⁴	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 are recommended to take one the MATH courses listed in the program requirements above however may also use either MATH 1220 or MATH 1230 to meet the requirement. Students may use the former MATH 1520 to meet the MATH course requirement.
- ³ Courses required as part of the Agriculture Degree Core or Agronomy Core cannot be used to meet this requirement.
- ⁴ 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.
- ⁵ 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.

Restricted Electives

Group 1 - Agriculture

Course	Title	Hours
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
PLNT 1000	Urban Agriculture	3
PLNT 2510	Fundamentals of Horticulture	3
PLNT 3520	Principles of Plant Improvement	3
PLNT 3560	Organic Crop Production on the Prairies	3
PLNT 4410	Grassland Agriculture: Plant, Animal and Environment	3

Group 2 - Soil Science

Course	Title	Hours
SOIL 3XXX	Any 3000 level SOIL course	3
SOIL 4XXX	Any 4000 level SOIL course	3