

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 |
| Select 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 1520 | Introductory Calculus 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 | | |
| Select 6 credit hours from Group 1 - Agriculture | | 6 |
| Select 3 credit hours from Group 2 - Soil Science ³ | | 3 |

| Free Electives | |
|--------------------------------------|------------|
| Select 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.
- 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. Two 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 |
| 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 |