

## Academic Programs Committee of Council

### University Course Challenge

Scheduled posting: **August 2025**

Date of circulation: **August 15, 2025**

Date approval is effective if no challenge received: **August 31, 2025**

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Curricular and program changes approved by University Course Challenge include additions and deletions of courses, lower levels of study and program options; straightforward program changes; and curricular changes which affect other colleges.

**Included are submissions for information and approval from the following colleges and schools:**

**College of Agriculture and Bioresources**

**College of Arts and Science**

**College of Education**

**College of Kinesiology**

**College of Nursing**

**Office of the Provost**

The next scheduled posting will be **September 16, 2025** with a submission deadline of **September 12, 2025**. Urgent items can be posted on request.

Please direct challenges to both of the following: [seanine.warrington@usask.ca](mailto:seanine.warrington@usask.ca) in the Registrar's Office and [danielle.rudulier@usask.ca](mailto:danielle.rudulier@usask.ca) in the Governance Office.

## College of Agriculture and Bioresources, Submission to University Course Challenge August 2025

The curricular revisions listed below were approved through the College of Agriculture and Bioresources Undergraduate Affairs Committee, and are now submitted to the University Course Challenge for information.

### Course Prerequisite Change:

#### AREC 322.3: Agricultural Finance

An introduction to investment feasibility analysis, business finance, and risk theory. Considerable attention is given to developing spreadsheet applications including investment feasibility analysis, bid price models, machine replacements, leasing versus buying and business portfolio/diversification applications.

**Weekly hours:** 3 Lecture hours and 1.5 Practicum/Lab hours

**Prerequisite(s):** COMM 201 or COMM 225.

**Prerequisite(s) or Corequisite(s):** COMM 203.

**Note:** Students with credit for BPBE 322 cannot take this course for credit.

### Revisions to Program Requirements:

#### Agribusiness

Bachelor of Science in Agribusiness [B.Sc.(Agbus.)]

#### Minimum Requirements for Degree (120 credit units)

##### Year 1 - (30 credit units)

- [AGRC 111.3](#) Introduction to Plant and Soil Sciences
- [AGRC 112.3](#) Animal Agriculture and Food Science
- [AGRC 113.3](#) Introduction to Agri Food Economics
- [COMM 101.3](#) Introduction to Business
- [ECON 111.3](#) Introductory Microeconomics
- [ECON 114.3](#) Introductory Macroeconomics
- [MATH 104.3](#) Elementary Calculus or [MATH 110.3](#) Calculus I or MATH 121.3 or [MATH 125.3](#) Mathematics for the Life Sciences

Note: If you excel in mathematics, you are encouraged to take [MATH 110.3](#) Calculus I rather than [MATH 104.3](#) Elementary Calculus.

#### English Language Writing Requirement

Choose 3 credit units from the following:

- [ANTH 302.3](#) The Practice of Ethnography
- [ANTH 306.3](#) Anthropology of Disaster and Dislocation
- [ANTH 310.3](#) Anthropology of Gender
- ANTH 421.3
- [CPSJ 203.3](#) Cultivating Humanity
- [ENG 111.3](#) Literature and Composition Reading Poetry
- [ENG 112.3](#) Literature and Composition Reading Drama
- [ENG 113.3](#) Literature and Composition Reading Narrative
- [ENG 114.3](#) Literature and Composition Reading Culture
- [ENG 120.3](#) Introduction to Creative Writing
- [HIST 115.3](#) History Matters Ideas and Culture
- [HIST 125.3](#) History Matters Indigenous Colonial and Post Colonial Histories
- [HIST 135.3](#) History Matters Gender Sex and Society
- [HIST 145.3](#) History Matters War Violence and Politics
- [HIST 155.3](#) History Matters Science and Environment
- [HIST 165.3](#) History Matters Health and Society
- [HIST 175.3](#) History Matters Identities and Communities in Transition
- [HIST 185.3](#) History Matters Conflict Law Politics and the State
- [HIST 193.3](#) History Matters Topics in Canadian History
- [HIST 194.3](#) History Matters Topics in European History
- [PHIL 120.3](#) Knowledge Mind and Existence
- [PHIL 121.3](#) Introduction to World Philosophies
- [PHIL 133.3](#) Introduction to Ethics and Values
- [PHIL 208.3](#) Ancient Philosophy Presocratics to Plato
- [PHIL 233.3](#) Ethical Theory
- [POLS 245.3](#) Politics of Africa
- [POLS 323.3](#) First Nations Policies and Programs
- [POLS 328.3](#) Public Policy Analysis
- [POLS 333.3](#) Theory and Politics of Law

- [POLS 336.3](#) Justice and Democracy
- [POLS 422.3](#) Indigenous Governance and Self Determined Sustainable Development
- [POLS 461.3](#) Topics in Global Politics
- [PSY 323.3](#) Qualitative Study of Lives and Social Practices
- [PSY 355.3](#) Research in Advanced Cognitive Science
- [RLST 280.3](#) Methodologies and Approaches to Study of Religions
- [RLST 362.3](#) Monsters and Mischief Makers

**Choose 3 credit units from the following:**

- [BIOL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CHEM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GEOG 120.3](#) Introduction to Global Environmental Systems or GEOG 125.3
- [GEOL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHYS — 100-Level, 200-Level, 300-Level, 400-Level](#)

**Choose 3 credit units from the following:**

**Humanities, Social Sciences, and Fine Arts Requirement**

**Humanities**

- [CHIN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CLAS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CREE — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ENG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [FREN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GERM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HEB — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HNDI — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [INTS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [JPNS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LATN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LIT — 100-Level, 200-Level, 300-Level, 400-Level](#)

- [PHIL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RLST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RUSS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SNSK — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SPAN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [UKR — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- Certain WGST courses may be considered a Humanities and/or Social Science. Refer to the Class Search.
- MUS 111 is acceptable toward the Humanities requirement.

### **Social Sciences**

- [ANTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARCH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ECON — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GEOG 130.3](#) Environment Health and Planning
- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [IS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LING — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PLAN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [POLS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PSY — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOSC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)

Any senior-level social science course, provided the prerequisite is met. Please note that certain GEOG courses are considered Science courses. Refer to the Class Search.

Statistics courses in social sciences are not accepted for credit toward the Social Science Requirement (eg. ECON 204, PSY 233, PSY 234, SOC 225 and SOC 325).

Certain WGST courses may be considered a Humanities and/or Social Science. Refer to the Class Search.

### **Fine Arts**

- [ART — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [DRAM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [MUS — 100-Level, 200-Level, 300-Level, 400-Level](#)

## **Year 2 (30 credit units)**

- [AREC 222.3](#) Introduction to Farm Business Management
- [AREC 261.3](#) Agricultural Data Analytics I
- [AREC 262.3](#) Agricultural Data Analytics II\*
- [AREC 272.3](#) Introduction to Agricultural Economics
- [COMM 201.3](#) Introduction to Financial Accounting or **COMM 225.3** Introduction to Accounting and Financial Literacy for Entrepreneurs
- [COMM 203.3](#) Introduction to Finance\*\*
- [COMM 204.3](#) Introduction to Marketing
- [RCM 200.3](#) Effective Professional Communication or **AGRC 110.3** Scientific Literacy and Communication for the Agricultural Sciences

\*Note: Students should take [AREC 261.3](#) Agricultural Data Analytics I in term 1 of their second year, and [AREC 262.3](#) Agricultural Data Analytics II in term 2 of their second year.

\*\*Note: Students take [COMM 203.3](#) Introduction to Finance after completing [AREC 261.3](#) Agricultural Data Analytics I and [MATH 104.3](#) Elementary Calculus (or equivalent). See your academic program advisor for the necessary permission to be entered for [COMM 203.3](#) Introduction to Finance.

## **Choose 3 credit units from the following:**

- [BIOL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CHEM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GEOG 120.3](#) Introduction to Global Environmental Systems or [GEOG 125.3](#)
- [GEOL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHYS — 100-Level, 200-Level, 300-Level, 400-Level](#)

## **Open Electives**

Choose 3 credit units of Open Electives.

## **Years 3 and 4 (60 credit units)**

- [AREC 322.3](#) Agricultural Finance

- [AREC 342.3](#) Industrial Organization of Agricultural Markets
- [AREC 343.3](#) Grain and Livestock Marketing
- [AREC 347.3](#) Agribusiness Marketing Management
- [AREC 495.3](#) Agribusiness Venture Management or [AREC 428.3](#) Case Studies in Agribusiness Management

**Choose 3 credit units from the following:**

#### **Humanities, Social Sciences, and Fine Arts Requirement**

##### **Humanities**

- [CHIN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CLAS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CREE — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ENG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [FREN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GERM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HEB — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HNDI — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [INTS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [JPNS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LATN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LIT — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHIL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RLST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RUSS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SNSK — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SPAN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [UKR — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)

- Certain WGST courses may be considered a Humanities and/or Social Science. Refer to the Class Search.
- MUS 111 is acceptable toward the Humanities requirement.

### **Social Sciences**

- [ANTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARCH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ECON — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GEOG 130.3](#) Environment Health and Planning
- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [IS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LING — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PLAN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [POLS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PSY — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOSC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)

Any senior-level social science course, provided the prerequisite is met. Please note that certain GEOG courses are considered Science courses. Refer to the Class Search.

Statistics courses in social sciences are not accepted for credit toward the Social Science Requirement (eg. ECON 204, PSY 233, PSY 234, SOC 225 and SOC 325).

Certain WGST courses may be considered a Humanities and/or Social Science. Refer to the Class Search.

### **Fine Arts**

- [ART — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [DRAM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [MUS — 100-Level, 200-Level, 300-Level, 400-Level](#)

### **Open Electives**

Choose 18 credit units of Open Electives.

### **Restricted Electives**



Choose 24 credit units of restricted electives, which may include an emphasis:

Note: Minimum 12 credit units must be at the 400-level. Maximum of 6 credit units of 400-level RCM classes may be taken to fulfill this requirement. Of the 24 credit units of restricted electives, students may take a maximum of 6 credit units of 400-level RCM classes OR [AGRC 445.3](#) Experiential Learning in the Workplace and 3 credit units of 400-level RCM classes.

**Please choose Restricted Electives from the following:**

### **Emphasis**

Students may use their restricted electives to take courses to achieve a general level of knowledge in agribusiness and economics, or they can choose to take a more prescribed set of courses within the curriculum that gives them greater depth of knowledge in specific areas within agricultural economics and agribusiness management. To achieve this, students may choose one of three emphases as part of their restricted electives. An emphasis consists of five courses including one at the 200-level, two at the 300-level and two at the 400-level.

### **Farm Business Management**

- [AREC 230.3](#) Innovation and Entrepreneurship
- [AREC 254.3](#) Agribusiness Taxation
- [AREC 420.3](#) Operations Management for Agriculture
- AREC 435.3
- [AREC 451.3](#) Agricultural Policy Analysis
- [COMM 211.3](#) Human Resource Management
- [COMM 306.3](#) Ethics and Strategic Decision Making
- [COMM 229.3](#) Personal Financial Management

### **Economics and Policy**

- [AREC 238.3](#) Natural Resource Economics
- [AREC 251.3](#) Introduction to Agricultural Policy
- [AREC 315.3](#) Application of Microeconomic Theory to Agriculture
- [AREC 348.3](#) Food Economics and Consumer Behaviour (can be used as a 400-level restricted elective)
- [AREC 356.3](#) The Economics of International Agribusiness (can be used as a 400-level restricted elective)
- [AREC 445.3](#) Competition Regulation and Antitrust Theory and Applications
- [AREC 451.3](#) Agricultural Policy Analysis
- [AREC 459.3](#) The Economics of Agricultural Innovation
- [ECON 211.3](#) Intermediate Microeconomics
- [ECON 304.3](#) Introduction to Empirical Economics
- [ECON 350.3](#) Economics of Public Expenditures
- [ECON 354.3](#) International Trade and Commercial Policy
- [ECON 373.3](#) Topics in Intermediate Microeconomic Theory
- ECON 412.3
- One of [POLS 226.3](#) Canadian Public Policy; [POLS 305.3](#) Provincial Politics and Policy; [POLS 328.3](#) Public Policy Analysis

### **Agribusiness Marketing and Management**

- [AREC 230.3](#) Innovation and Entrepreneurship
- [AREC 344.3](#) Follow the Grain
- [AREC 346.3](#) Principles of Selling
- [AREC 348.3](#) Food Economics and Consumer Behaviour (can be used as a 400-level restricted elective)
- [AREC 354.3](#) Economic Decision Analysis in Agribusiness
- [AREC 356.3](#) The Economics of International Agribusiness (can be used as a 400-level restricted elective)
- [AREC 420.3](#) Operations Management for Agriculture
- [AREC 428.3](#) Case Studies in Agribusiness Management or [AREC 495.3](#) Agribusiness Venture Management
- [AREC 440.3](#) Agricultural Marketing Systems
- [COMM 205.3](#) Introduction to Operations Management
- [COMM 211.3](#) Human Resource Management
- [COMM 306.3](#) Ethics and Strategic Decision Making
- [COMM 357.3](#) Marketing Research
- [COMM 495.3](#) Supply Chain Management
- [RCM 404.3](#) Leadership as Communication

### **Restricted Electives**

Choose 24 credit units of restricted electives from the following, which may include an emphasis.

Note: Minimum 12 credit units must be at the 400-level. Maximum of 6 credit units of 400-level RCM classes may be taken to fulfill this requirement. Of the 24 credit units of restricted electives, students may take a maximum of 6 credit units of 400-level RCM classes OR [AGRC 445.3](#) Experiential Learning in the Workplace and 3 credit units of 400-level RCM classes.

- [AGRC 445.3](#) Experiential Learning in the Workplace
- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- [AREC 230.3](#) Innovation and Entrepreneurship
- [AREC 238.3](#) Natural Resource Economics
- [AREC 251.3](#) Introduction to Agricultural Policy
- [AREC 254.3](#) Agribusiness Taxation
- [AREC 315.3](#) Application of Microeconomic Theory to Agriculture
- [AREC 344.3](#) Follow the Grain
- [AREC 346.3](#) Principles of Selling
- [AREC 348.3](#) Food Economics and Consumer Behaviour (can be used as a 400-level restricted elective)
- [AREC 354.3](#) Economic Decision Analysis in Agribusiness
- [AREC 356.3](#) The Economics of International Agribusiness (can be used as a 400-level restricted elective)
- AREC 395.3
- AREC 400.3
- [AREC 420.3](#) Operations Management for Agriculture
- [AREC 428.3](#) Case Studies in Agribusiness Management
- [AREC 430.3](#) Advanced Natural Resource Economics
- [AREC 432.3](#) Rural Development Theory and Applications

- AREC 433.3
- AREC 434.3
- AREC 435.3
- [AREC 440.3](#) Agricultural Marketing Systems
- [AREC 445.3](#) Competition Regulation and Antitrust Theory and Applications
- [AREC 451.3](#) Agricultural Policy Analysis
- [AREC 459.3](#) The Economics of Agricultural Innovation
- [AREC 495.3](#) Agribusiness Venture Management
- [COMM 105.3](#) Introduction to Organizational Behaviour
- [COMM 205.3](#) Introduction to Operations Management
- [COMM 210.3](#) Introduction to Management Accounting
- [COMM 211.3](#) Human Resource Management
- [COMM 229.3](#) Personal Financial Management
- [COMM 304.3](#) Introduction to Business Law
- [COMM 306.3](#) Ethics and Strategic Decision Making
- [COMM 340.3](#) Introduction to International Business
- [COMM 342.3](#) Organization Structure and Design
- [COMM 345.3](#) Business and Public Policy
- [COMM 347.3](#) Indigenous Business in Canada
- [COMM 354.3](#) Consumer Behaviour
- [COMM 357.3](#) Marketing Research
- [COMM 363.3](#) Intermediate Corporate Finance
- [COMM 368.3](#) Entrepreneurial Finance and Venture Capital
- [COMM 456.3](#) International Marketing
- [COMM 495.3](#) Supply Chain Management
- [ECON 211.3](#) Intermediate Microeconomics
- [ECON 304.3](#) Introduction to Empirical Economics
- [ECON 350.3](#) Economics of Public Expenditures
- [ECON 354.3](#) International Trade and Commercial Policy
- [ECON 373.3](#) Topics in Intermediate Microeconomic Theory
- ECON 412.2
- [PLSC 214.3](#) Statistical Methods
- One of [POLS 226.3](#) Canadian Public Policy; [POLS 305.3](#) Provincial Politics and Policy; [POLS 328.3](#) Public Policy Analysis
- [RCM 400.3](#) Rhetorical Theory and Practice of Persuasion
- [RCM 401.3](#) Oral Rhetoric
- [RCM 402.3](#) Interpersonal Communication and Rhetoric
- [RCM 404.3](#) Leadership as Communication
- [RCM 406.3](#) Studies in Communication Series
- [RCM 407.3](#) Rhetorical Editing
- [RCM 408.3](#) Rhetorical Composition Writing for the Public
- [RCM 409.3](#) Negotiation as Rhetorical Practice
- [RCM 410.3](#) Rhetoric of Science and Technology

- [RCM 495.3](#) Rhetorical Peer Mentorship
- [RRM 312.3](#) Natural Resource Management and Indigenous People

## Agribusiness

Diploma, Dip.(Agbus.)

### Year 1 - Fall Term (15 credit units)

- [AGRC 111.3](#) Introduction to Plant and Soil Sciences
- [COMM 101.3](#) Introduction to Business
- [ECON 111.3](#) Introductory Microeconomics

### Choose 6 credit units of open electives:

Please note that students planning to ladder the Diploma in Agribusiness towards a Bachelor of Science in Agribusiness are advised to register in [MATH 104.3](#) Elementary Calculus (or an approved equivalent) as an open elective and [AREC 272.3](#) Introduction to Agricultural Economics and [AREC 261.3](#) Agricultural Data Analytics I and [AREC 262.3](#) Agricultural Data Analytics II as restricted or open electives and meet with an advisor as soon as possible to plan their program.

### Year 1 - Winter Term (15 credit units)

- [AGRC 112.3](#) Animal Agriculture and Food Science
- [AGRC 113.3](#) Introduction to Agri Food Economics
- [AREC 230.3](#) Innovation and Entrepreneurship
- [COMM 204.3](#) Introduction to Marketing

### Choose 3 credit units of Open Electives:

Please note that students planning to ladder the Diploma in Agribusiness towards a Bachelor of Science in Agribusiness are advised to register in [MATH 104.3](#) Elementary Calculus (or an approved equivalent) as an open elective and [AREC 272.3](#) Introduction to Agricultural Economics and [AREC 261.3](#) Agricultural Data Analytics I and [AREC 262.3](#) Agricultural Data Analytics II as restricted or open electives and meet with an advisor as soon as possible to plan their program.

### Year 2 - Fall Term (15 credit units)

- [AREC 222.3](#) Introduction to Farm Business Management
- [COMM 201.3](#) Introduction to Financial Accounting or [COMM 225.3](#) Introduction to Accounting and Financial Literacy for Entrepreneurs
- [RCM 200.3](#) Effective Professional Communication or [AGRC 110.3](#) Scientific Literacy and Communication for the Agricultural Sciences

### Choose 3 credit units from the following restricted electives:

- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- [AREC 238.3](#) Natural Resource Economics
- [AREC 251.3](#) Introduction to Agricultural Policy
- [AREC 254.3](#) Agribusiness Taxation
- [AREC 272.3](#) Introduction to Agricultural Economics
- [AREC 343.3](#) Grain and Livestock Marketing
- [AREC 344.3](#) Follow the Grain
- [AREC 346.3](#) Principles of Selling
- [AREC 347.3](#) Agribusiness Marketing Management
- [AREC 354.3](#) Economic Decision Analysis in Agribusiness

**Choose 3 credit units of Open Electives:**

Please note that students planning to ladder the Diploma in Agribusiness towards a Bachelor of Science in Agribusiness are advised to register in [MATH 104.3](#) Elementary Calculus (or an approved equivalent) as an open elective and [AREC 272.3](#) Introduction to Agricultural Economics and [AREC 261.3](#) Agricultural Data Analytics I and [AREC 262.3](#) Agricultural Data Analytics II as restricted or open electives and meet with an advisor as soon as possible to plan their program.

**Year 2 - Winter Term (15 credit units)**

- [AREC 495.3](#) Agribusiness Venture Management

**Choose 9 credit units from the following restricted electives:**

- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- [AREC 238.3](#) Natural Resource Economics
- [AREC 251.3](#) Introduction to Agricultural Policy
- [AREC 254.3](#) Agribusiness Taxation
- [AREC 272.3](#) Introduction to Agricultural Economics
- [AREC 343.3](#) Grain and Livestock Marketing
- [AREC 344.3](#) Follow the Grain
- [AREC 346.3](#) Principles of Selling
- [AREC 347.3](#) Agribusiness Marketing Management
- [AREC 354.3](#) Economic Decision Analysis in Agribusiness

**Choose 3 credit units of Open Electives:**

Please note that students planning to ladder the Diploma in Agribusiness towards a Bachelor of Science in Agribusiness are advised to register in [MATH 104.3](#) Elementary Calculus (or an approved equivalent) as an open elective and [AREC 272.3](#) Introduction to Agricultural Economics and [AREC 261.3](#) Agricultural Data Analytics I and [AREC 262.3](#) Agricultural Data Analytics II as restricted or open electives and meet with an advisor as soon as possible to plan their program.

## **Agribusiness**

Minor

### **Requirements (18 credit units)**

- [AREC 495.3](#) Agribusiness Venture Management or [AREC 428.3](#) Case Studies in Agribusiness Management
- [COMM 101.3](#) Introduction to Business
- [COMM 201.3](#) Introduction to Financial Accounting or [COMM 225.3](#) Introduction to Accounting and Financial Literacy for Entrepreneurs

### **Choose 9 credit units from the following:**

- [AREC 222.3](#) Introduction to Farm Business Management
- [AREC 230.3](#) Innovation and Entrepreneurship
- [AREC 238.3](#) Natural Resource Economics
- [AREC 251.3](#) Introduction to Agricultural Policy
- [AREC 254.3](#) Agribusiness Taxation
- [AREC 343.3](#) Grain and Livestock Marketing
- [AREC 344.3](#) Follow the Grain
- [AREC 346.3](#) Principles of Selling
- [AREC 347.3](#) Agribusiness Marketing Management
- [AREC 354.3](#) Economic Decision Analysis in Agribusiness
- [AREC 420.3](#) Operations Management for Agriculture
- [AREC 430.3](#) Advanced Natural Resource Economics
- AREC 435.3
- [AREC 445.3](#) Competition Regulation and Antitrust Theory and Applications
- [COMM 105.3](#) Introduction to Organizational Behaviour
- [COMM 203.3](#) Introduction to Finance

- [COMM 204.3](#) Introduction to Marketing
- [COMM 205.3](#) Introduction to Operations Management
- [COMM 210.3](#) Introduction to Management Accounting
- COMM 303.3
- [COMM 304.3](#) Introduction to Business Law
- [COMM 352.3](#) Marketing Strategy
- [COMM 354.3](#) Consumer Behaviour
- COMM 404.3

### **Agricultural Economics**

Bachelor of Science in Agriculture (B.S.A.)

#### **Year 1 (30 credit units)**

- [AGRC 111.3](#) Introduction to Plant and Soil Sciences
- [AGRC 112.3](#) Animal Agriculture and Food Science
- [AGRC 113.3](#) Introduction to Agri Food Economics
- [AREC 220.3](#) History of Indigenous Agriculture in Canada or [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [BIOL 120.3](#) The Nature of Life
- [BIOL 121.3](#) The Diversity of Life
- [CHEM 112.3](#) General Chemistry I Structure Bonding and Properties of Materials
- [ECON 111.3](#) Introductory Microeconomics
- [ECON 114.3](#) Introductory Macroeconomics

**Choose 3 credit units from the following:**

Choose 3 credit units from the areas of Social Science, Humanities or Fine Arts.

#### **Humanities**

- [CHIN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CLAS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CREE — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ENG — 100-Level, 200-Level, 300-Level, 400-Level](#)

- [FREN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GERM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HEB — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HNDI — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [INTS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [JPNS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LATN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LIT — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHIL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RLST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RUSS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SNSK — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SPAN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [UKR — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- Certain WGST courses may be considered a Humanities and/or Social Science. Refer to the Class Search.
- MUS 111 is acceptable toward the Humanities requirement.

#### **Social Sciences**

- [ANTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARCH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ECON — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GEOG 130.3](#) Environment Health and Planning
- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [IS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LING — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PLAN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [POLS — 100-Level, 200-Level, 300-Level, 400-Level](#)



- [PSY — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOSC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)

Any senior-level social science course, provided the prerequisite is met. Please note that certain GEOG courses are considered Science courses. Refer to the Class Search.

Statistics courses in social sciences are not accepted for credit toward the Social Science Requirement (eg. ECON 204, PSY 233, PSY 234, SOC 225 and SOC 325).

Certain WGST courses may be considered a Humanities and/or Social Science. Refer to the Class Search.

### **Fine Arts**

- [ART — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [DRAM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [MUS — 100-Level, 200-Level, 300-Level, 400-Level](#)

### **Year 2 (30 credit units)**

- [AGRC 110.3](#) Scientific Literacy and Communication for the Agricultural Sciences
- [AREC 261.3](#) Agricultural Data Analytics I
- [AREC 262.3](#) Agricultural Data Analytics II\*
- [AREC 272.3](#) Introduction to Agricultural Economics
- [COMM 101.3](#) Introduction to Business
- [ECON 211.3](#) Intermediate Microeconomics
- [ECON 214.3](#) Intermediate Macroeconomics
- [MATH 104.3](#) Elementary Calculus, [MATH 110.3](#) Calculus I, or MATH 121.3 or [MATH 125.3](#) Mathematics for the Life Sciences

\*Note: Students should take [AREC 261.3](#) Agricultural Data Analytics I in term 1 of their second year, and [AREC 262.3](#) Agricultural Data Analytics II in term 2 of their second year.

Note: If you excel in mathematics, you are encouraged to take [MATH 110.3](#) Calculus I rather than [MATH 104.3](#) Elementary Calculus

### **English Language Writing Requirement**

**Choose 3 credit units from the following:**

- [ANTH 302.3](#) The Practice of Ethnography
- [ANTH 306.3](#) Anthropology of Disaster and Dislocation
- [ANTH 310.3](#) Anthropology of Gender
- ANTH 421.3
- [CPSJ 203.3](#) Cultivating Humanity
- [ENG 111.3](#) Literature and Composition Reading Poetry
- [ENG 112.3](#) Literature and Composition Reading Drama
- [ENG 113.3](#) Literature and Composition Reading Narrative
- [ENG 114.3](#) Literature and Composition Reading Culture
- [ENG 120.3](#) Introduction to Creative Writing
- [HIST 115.3](#) History Matters Ideas and Culture
- [HIST 125.3](#) History Matters Indigenous Colonial and Post Colonial Histories
- [HIST 135.3](#) History Matters Gender Sex and Society
- [HIST 145.3](#) History Matters War Violence and Politics
- [HIST 155.3](#) History Matters Science and Environment
- [HIST 165.3](#) History Matters Health and Society
- [HIST 175.3](#) History Matters Identities and Communities in Transition
- [HIST 185.3](#) History Matters Conflict Law Politics and the State
- [HIST 193.3](#) History Matters Topics in Canadian History
- [HIST 194.3](#) History Matters Topics in European History
- [PHIL 120.3](#) Knowledge Mind and Existence
- [PHIL 121.3](#) Introduction to World Philosophies
- [PHIL 133.3](#) Introduction to Ethics and Values
- [PHIL 208.3](#) Ancient Philosophy Presocratics to Plato
- [PHIL 233.3](#) Ethical Theory
- [POLS 245.3](#) Politics of Africa
- [POLS 323.3](#) First Nations Policies and Programs
- [POLS 328.3](#) Public Policy Analysis
- [POLS 333.3](#) Theory and Politics of Law

- [POLS 336.3](#) Justice and Democracy
- [POLS 422.3](#) Indigenous Governance and Self Determined Sustainable Development
- [POLS 461.3](#) Topics in Global Politics
- [PSY 323.3](#) Qualitative Study of Lives and Social Practices
- [PSY 355.3](#) Research in Advanced Cognitive Science
- [RLST 280.3](#) Methodologies and Approaches to Study of Religions
- [RLST 362.3](#) Monsters and Mischief Makers

**Choose 3 credit units from the following:**

- [ECON 305.3](#) Quantitative Methods in Economics I
- [ECON 306.3](#) Quantitative Methods in Economics II
- [MATH 116.3](#) Calculus II
- [MATH 164.3](#) Introduction to Linear Algebra

**Years 3 and 4 (60 credit units)**

- [AREC 315.3](#) Application of Microeconomic Theory to Agriculture
- [AREC 322.3](#) Agricultural Finance
- [AREC 342.3](#) Industrial Organization of Agricultural Markets
- [AREC 492.3](#) Research Project and Technical Writing
- [COMM 201.3](#) Introduction to Financial Accounting or [COMM 225.3](#) Introduction to Accounting and Financial Literacy for Entrepreneurs
- [COMM 203.3](#) Introduction to Finance\*
- [COMM 204.3](#) Introduction to Marketing
- [ECON 304.3](#) Introduction to Empirical Economics and [ECON 408.3](#) Econometrics 1

\*Note: Students take [COMM 203.3](#) Introduction to Finance after completing [AREC 261.3](#) Agricultural Data Analytics I and [MATH 104.3](#) Elementary Calculus (or equivalent). See your academic program advisor for the necessary permission to be entered for [COMM 203.3](#) Introduction to Finance.

**Choose 3 credit units from the following:**

- [HIST 254.3](#) The Age of Total Wars in 20th Century Europe
- [HIST 257.3](#) The Canadian Prairie to 1905
- [HIST 258.3](#) The Canadian Prairies since 1905
- [PHIL 120.3](#) Knowledge Mind and Existence

- [PHIL 133.3](#) Introduction to Ethics and Values
- [PHIL 140.3](#) Critical Thinking
- PHIL 235.3
- [PHIL 241.3](#) Introduction to Symbolic Logic I
- [PHIL 251.3](#) Philosophy of Science
- [PHIL 262.3](#) Social and Political Philosophy

**Choose 12 credit units restricted electives from the following:**

- [AREC — 400-Level](#)

Note: [AREC 356.3](#) The Economics of International Agribusiness and [AREC 348.3](#) Food Economics and Consumer Behaviour can be used toward this requirement

**Choose 12 credit units restricted electives from the following:**

- [GEOG 130.3](#) Environment Health and Planning or equivalent
- [AGRC 445.3](#) Experiential Learning in the Workplace
- [ANTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARCH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [AREC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [BIOL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CHEM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CHIN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CLAS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [COMM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CREE — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ENG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [FREN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GEOL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GERM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GRK — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HEB — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)

- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [JPNS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LATN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LING — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHIL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHYS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PLSC 214.3](#) Statistical Methods
- [POLS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PSY — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RLST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RUSS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SNSK — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SPAN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [UKR — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- If applicable, a specialization minor course can be used.

### Open Electives

- Choose 6 credit units of open electives

### Resource Economics and Policy

Bachelor of Science in Renewable Resource Management [B.Sc.(RRM)]

#### Year 1 (30 credit units)

- 3 credit units open electives
- [AGRC 113.3](#) Introduction to Agri Food Economics
- [BIOL 120.3](#) The Nature of Life or [BIOL 121.3](#) The Diversity of Life
- [CHEM 112.3](#) General Chemistry I Structure Bonding and Properties of Materials
- [ECON 111.3](#) Introductory Microeconomics
- [EVSC 110.3](#) Renewable Resources and Environment

- [GEOG 120.3](#) Introduction to Global Environmental Systems or [GEOL 206.3](#) Earth Systems
- [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [MATH 104.3](#) Elementary Calculus or [MATH 110.3](#) Calculus I or [MATH 125.3](#) Mathematics for the Life Sciences
- [RRM 114.3](#) Introductory Resource Economics and Policy

#### **Year 2 (30 credit units)**

- 6 credit units open electives
- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- [AREC 238.3](#) Natural Resource Economics
- [AREC 261.3](#) Agricultural Data Analytics I\*
- [AREC 262.3](#) Agricultural Data Analytics II
- [AREC 272.3](#) Introduction to Agricultural Economics
- [ENVS 201.3](#) Foundations of Sustainability
- [GEOG 280.3](#) Environmental Geography
- [RCM 200.3](#) Effective Professional Communication or [AGRC 110.3](#) Scientific Literacy and Communication for the Agricultural Sciences

\*Note: Students should take [AREC 261.3](#) Agricultural Data Analytics I in term 1 of their second year, and [AREC 262.3](#) Agricultural Data Analytics II in term 2 of their second year.

#### **Year 3 (30 credit units)**

- 9 credit units open electives
- [AREC 315.3](#) Application of Microeconomic Theory to Agriculture or [ECON 277.3](#) Economics of the Environment
- [RRM 312.3](#) Natural Resource Management and Indigenous Peoples
- [RRM 321.3](#) Resource Data and Environmental Modeling
- one of [GEOG 385.3](#) Analysis of Environmental Management and Policy Making, [GEOG 386.3](#) Environmental Impact Assessment or [ENVE 381.3](#) Sustainability and Environmental Assessment

**Choose 9 credit units of restricted electives:**

#### **Emphasis**

Students may use their restricted electives to take courses to achieve a general level of knowledge in

resource economics and management, or they can choose to take a more prescribed set of courses within the curriculum that gives them greater depth of knowledge in specific areas of natural resource management, assessment and development. To achieve this, students may choose one emphasis from the four offered as part of their restricted electives. An emphasis consists of five courses from the prescribed list.

### **Indigenous Resource Management**

- [ASKI 102.3](#) Introduction to Legal Concepts in Resource Management
- [ASKI 103.3](#) Legal Process and Instruments in Resource Management
- [ASKI 202.1](#) Introduction to Land Management Frameworks and [ASKI 204.2](#) Introduction to the Duty to Consult
- [GEOG 380.3](#) Environmental Geography of the Circumpolar North
- [INDG 241.3](#) Weaving Indigenous Science and Western Science
- [INDG 265.3](#) Aboriginal People and Development
- [INDG 362.3](#) Aboriginal People and Northern Development
- [POLS 222.3](#) Indigenous Governance and Politics
- POLS 322.3
- [POLS 323.3](#) First Nations Policies and Programs

### **Sustainable Water/Energy/Food Systems**

- [AGRC 211.3](#) Global Food Security
- [ENVE 381.3](#) Sustainability and Environmental Assessment
- [GEOG 225.3](#) Fundamentals of Hydrology
- [GEOG 380.3](#) Environmental Geography of the Circumpolar North
- PLAN 329.3

### **Environmental Impact Assessment and Policy**

- [AREC 451.3](#) Agricultural Policy Analysis
- [ENVE 381.3](#) Sustainability and Environmental Assessment
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 386.3](#) Environmental Impact Assessment
- [INDG 321.3](#) International Indigenous Disaster Risk Reduction
- [POLS 226.3](#) Canadian Public Policy
- POLS 322.3
- [POLS 323.3](#) First Nations Policies and Programs
- [TOX 321.3](#) Risk Assessment and Regulatory Toxicology

### **Development and the Environment**

- [ECON 270.3](#) Development in Non Industrialized Countries
- [ENVE 381.3](#) Sustainability and Environmental Assessment
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 380.3](#) Environmental Geography of the Circumpolar North
- [GEOG 386.3](#) Environmental Impact Assessment
- [INDG 265.3](#) Aboriginal People and Development

- [INDG 361.3](#) Indigenous Community Development in the 21st Century

### **Restricted Electives**

- [AGRC 111.3](#) Introduction to Plant and Soil Sciences
- [AGRC 211.3](#) Global Food Security
- [ANBI 375.3](#) Animals and the Environment
- [ANBI 420.3](#) Comparative Animal Endocrinology
- [ANTH 111.3](#) One World Many Peoples Introduction to Cultural Anthropology
- ANTH 224.3
- [ANTH 329.3](#) Environmental Anthropology
- [AREC 238.3](#) Natural Resource Economics
- [AREC 315.3](#) Application of Microeconomic Theory to Agriculture
- [AREC 342.3](#) Industrial Organization of Agricultural Markets
- [AREC 430.3](#) Advanced Natural Resource Economics
- [AREC 432.3](#) Rural Development Theory and Applications
- [AREC 451.3](#) Agricultural Policy Analysis
- [ASKI 102.3](#) Introduction to Legal Concepts in Resource Management
- [ASKI 103.3](#) Legal Process and Instruments in Resource Management
- [ASKI 202.1](#) Introduction to Land Management Frameworks and [ASKI 204.2](#) Introduction to the Duty to Consult
- [BIOL 323.3](#) Plant Systematics and Evolution
- [BIOL 412.3](#) Limnology
- BIOL 424.3
- [BIOL 475.3](#) Ecological Toxicology
- [CHEM 375.3](#) Environmental Chemistry
- [COMM 201.3](#) Introduction to Financial Accounting or **[COMM 225.3](#) Introduction to Accounting and Financial Literacy for Entrepreneurs**
- [COMM 347.3](#) Indigenous Business in Canada
- [ECON 211.3](#) Intermediate Microeconomics
- [ECON 231.3](#) Co operatives
- [ECON 270.3](#) Development in Non Industrialized Countries
- [ECON 275.3](#) Economics of Natural Resources
- [ECON 277.3](#) Economics of the Environment
- ECON 347.3
- [ENVE 381.3](#) Sustainability and Environmental Assessment
- [ENVE 432.3](#) Land Management and Reclamation
- [EVSC 220.3](#) Environmental Soil Science
- [EVSC 380.3](#) Grassland Soils and Vegetation
- [FABS 212.3](#) Agrifood and Resources Microbiology OR [BMSC 210.3](#) Microbiology
- FABS 360.3
- FABS 430.3
- [GEOG 150.3](#) Introduction to the Circumpolar World
- [GEOG 208.3](#) World Regional Development
- [GEOG 225.3](#) Fundamentals of Hydrology



- [GEOG 233.3](#) Weather and Climate
- [GEOG 235.3](#) Earth Processes and Natural Hazards A Canadian Perspective
- [GEOG 240.3](#) Sustainable Cities and Regions
- GEOG 271.3
- [GEOG 280.3](#) Environmental Geography
- [GEOG 323.3](#) Remote Sensing
- [GEOG 328.3](#) Groundwater Hydrology
- GEOG 332.3
- [GEOG 351.3](#) Northern Environments
- GEOG 352.3
- GEOG 371.3
- [GEOG 380.3](#) Environmental Geography of the Circumpolar North
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 386.3](#) Environmental Impact Assessment
- GEOG 462.3
- [GEOL 121.3](#) Earth Processes
- GEOL 312.3
- GEOL 330.3
- HIST 170.6
- [INDG 241.3](#) Weaving Indigenous Science and Western Science
- [INDG 265.3](#) Aboriginal People and Development
- [INDG 321.3](#) International Indigenous Disaster Risk Reduction
- [INDG 361.3](#) Indigenous Community Development in the 21st Century
- [INDG 362.3](#) Aboriginal People and Northern Development
- [LAW 436.3](#) Aboriginal Law
- [PHIL 226.3](#) Environmental Philosophy
- PLAN 329.3
- [PLSC 214.3](#) Statistical Methods
- PLSC 412.3
- [PLSC 413.3](#) Advanced Plant Ecology
- [PLSC 418.3](#) Management of Arable Grassland
- [PLSC 422.3](#) Rangeland Ecology and Management
- [PLSC 425.3](#) Forest Ecology
- [POLS 111.3](#) Politics Power and Government or [POLS 112.3](#) Justice and Injustice in Politics and Law
- [POLS 222.3](#) Indigenous Governance and Politics
- [POLS 225.3](#) Canadian Public Administration and Administrative Law
- [POLS 226.3](#) Canadian Public Policy
- POLS 322.3
- [POLS 323.3](#) First Nations Policies and Programs
- [POLS 326.3](#) Comparative Public Policy
- [POLS 328.3](#) Public Policy Analysis
- POLS 425.3
- [SLSC 312.3](#) Soil Fertility and Fertilizers

- [SLSC 313.3](#) Environmental Soil Chemistry
- [SLSC 322.3](#) Environmental Soil Physics
- [SLSC 342.3](#) Soil Microbiology
- [SLSC 444.3](#) Soil Ecology
- [SLSC 460.3](#) Forest Soils
- [SLSC 480.3](#) Soils and Boreal Landscapes
- [TOX 301.3](#) Environmental Toxicology
- [TOX 321.3](#) Risk Assessment and Regulatory Toxicology

#### **Year 4 (30 credit units)**

- 3 credit units open electives
- [AREC 430.3](#) Advanced Natural Resource Economics
- [ENVS 401.3](#) Sustainability in Action or [EVSC 485.3](#) Environmental Science Capstone Course
- [RRM 421.6](#) Applied Resource and Environmental Management Project

#### **Choose 15 credit units of restricted electives:**

##### **Emphasis**

Students may use their restricted electives to take courses to achieve a general level of knowledge in resource economics and management, or they can choose to take a more prescribed set of courses within the curriculum that gives them greater depth of knowledge in specific areas of natural resource management, assessment and development. To achieve this, students may choose one emphasis from the four offered as part of their restricted electives. An emphasis consists of five courses from the prescribed list.

##### **Indigenous Resource Management**

- [ASKI 102.3](#) Introduction to Legal Concepts in Resource Management
- [ASKI 103.3](#) Legal Process and Instruments in Resource Management
- [ASKI 202.1](#) Introduction to Land Management Frameworks and [ASKI 204.2](#) Introduction to the Duty to Consult
- [GEOG 380.3](#) Environmental Geography of the Circumpolar North
- [INDG 241.3](#) Weaving Indigenous Science and Western Science
- [INDG 265.3](#) Aboriginal People and Development
- [INDG 362.3](#) Aboriginal People and Northern Development
- [POLS 222.3](#) Indigenous Governance and Politics
- [POLS 322.3](#)
- [POLS 323.3](#) First Nations Policies and Programs

##### **Sustainable Water/Energy/Food Systems**

- [AGRC 211.3](#) Global Food Security
- [ENVE 381.3](#) Sustainability and Environmental Assessment
- [GEOG 225.3](#) Fundamentals of Hydrology

- [GEOG 380.3](#) Environmental Geography of the Circumpolar North
- PLAN 329.3

### **Environmental Impact Assessment and Policy**

- [AREC 451.3](#) Agricultural Policy Analysis
- [ENVE 381.3](#) Sustainability and Environmental Assessment
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 386.3](#) Environmental Impact Assessment
- [INDG 321.3](#) International Indigenous Disaster Risk Reduction
- [POLS 226.3](#) Canadian Public Policy
- POLS 322.3
- [POLS 323.3](#) First Nations Policies and Programs
- [TOX 321.3](#) Risk Assessment and Regulatory Toxicology

### **Development and the Environment**

- [ECON 270.3](#) Development in Non Industrialized Countries
- [ENVE 381.3](#) Sustainability and Environmental Assessment
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 380.3](#) Environmental Geography of the Circumpolar North
- [GEOG 386.3](#) Environmental Impact Assessment
- [INDG 265.3](#) Aboriginal People and Development
- [INDG 361.3](#) Indigenous Community Development in the 21st Century

### **Restricted Electives**

- [AGRC 111.3](#) Introduction to Plant and Soil Sciences
- [AGRC 211.3](#) Global Food Security
- [ANBI 375.3](#) Animals and the Environment
- [ANBI 420.3](#) Comparative Animal Endocrinology
- [ANTH 111.3](#) One World Many Peoples Introduction to Cultural Anthropology
- ANTH 224.3
- [ANTH 329.3](#) Environmental Anthropology
- [AREC 238.3](#) Natural Resource Economics
- [AREC 315.3](#) Application of Microeconomic Theory to Agriculture
- [AREC 342.3](#) Industrial Organization of Agricultural Markets
- [AREC 430.3](#) Advanced Natural Resource Economics
- [AREC 432.3](#) Rural Development Theory and Applications
- [AREC 451.3](#) Agricultural Policy Analysis
- [ASKI 102.3](#) Introduction to Legal Concepts in Resource Management
- [ASKI 103.3](#) Legal Process and Instruments in Resource Management
- [ASKI 202.1](#) Introduction to Land Management Frameworks and [ASKI 204.2](#) Introduction to the Duty to Consult
- [BIOL 323.3](#) Plant Systematics and Evolution
- [BIOL 412.3](#) Limnology
- BIOL 424.3

- [BIOL 475.3](#) Ecological Toxicology
- [CHEM 375.3](#) Environmental Chemistry
- [COMM 201.3](#) Introduction to Financial Accounting or **COMM 225.3** Introduction to Accounting and Financial Literacy for Entrepreneurs
- [COMM 347.3](#) Indigenous Business in Canada
- [ECON 211.3](#) Intermediate Microeconomics
- [ECON 231.3](#) Co operatives
- [ECON 270.3](#) Development in Non Industrialized Countries
- [ECON 275.3](#) Economics of Natural Resources
- [ECON 277.3](#) Economics of the Environment
- [ECON 347.3](#)
- [ENVE 381.3](#) Sustainability and Environmental Assessment
- [ENVE 432.3](#) Land Management and Reclamation
- [EVSC 220.3](#) Environmental Soil Science
- [EVSC 380.3](#) Grassland Soils and Vegetation
- [FABS 212.3](#) Agrifood and Resources Microbiology OR [BMSC 210.3](#) Microbiology
- [FABS 360.3](#)
- [FABS 430.3](#)
- [GEOG 150.3](#) Introduction to the Circumpolar World
- [GEOG 208.3](#) World Regional Development
- [GEOG 225.3](#) Fundamentals of Hydrology
- [GEOG 233.3](#) Weather and Climate
- [GEOG 235.3](#) Earth Processes and Natural Hazards A Canadian Perspective
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 271.3](#)
- [GEOG 280.3](#) Environmental Geography
- [GEOG 323.3](#) Remote Sensing
- [GEOG 328.3](#) Groundwater Hydrology
- [GEOG 332.3](#)
- [GEOG 351.3](#) Northern Environments
- [GEOG 352.3](#)
- [GEOG 371.3](#)
- [GEOG 380.3](#) Environmental Geography of the Circumpolar North
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 386.3](#) Environmental Impact Assessment
- [GEOG 462.3](#)
- [GEOL 121.3](#) Earth Processes
- [GEOL 312.3](#)
- [GEOL 330.3](#)
- [HIST 170.6](#)
- [INDG 241.3](#) Weaving Indigenous Science and Western Science
- [INDG 265.3](#) Aboriginal People and Development
- [INDG 321.3](#) International Indigenous Disaster Risk Reduction
- [INDG 361.3](#) Indigenous Community Development in the 21st Century

- [INDG 362.3](#) Aboriginal People and Northern Development
- [LAW 436.3](#) Aboriginal Law
- [PHIL 226.3](#) Environmental Philosophy
- PLAN 329.3
- [PLSC 214.3](#) Statistical Methods
- PLSC 412.3
- [PLSC 413.3](#) Advanced Plant Ecology
- [PLSC 418.3](#) Management of Arable Grassland
- [PLSC 422.3](#) Rangeland Ecology and Management
- [PLSC 425.3](#) Forest Ecology
- [POLS 111.3](#) Politics Power and Government or [POLS 112.3](#) Justice and Injustice in Politics and Law
- [POLS 222.3](#) Indigenous Governance and Politics
- [POLS 225.3](#) Canadian Public Administration and Administrative Law
- [POLS 226.3](#) Canadian Public Policy
- POLS 322.3
- [POLS 323.3](#) First Nations Policies and Programs
- [POLS 326.3](#) Comparative Public Policy
- [POLS 328.3](#) Public Policy Analysis
- POLS 425.3
- [SLSC 312.3](#) Soil Fertility and Fertilizers
- [SLSC 313.3](#) Environmental Soil Chemistry
- [SLSC 322.3](#) Environmental Soil Physics
- [SLSC 342.3](#) Soil Microbiology
- [SLSC 444.3](#) Soil Ecology
- [SLSC 460.3](#) Forest Soils
- [SLSC 480.3](#) Soils and Boreal Landscapes
- [TOX 301.3](#) Environmental Toxicology
- [TOX 321.3](#) Risk Assessment and Regulatory Toxicology

## **Food Industry Management**

Bachelor of Science in Food Industry Management [B.Sc.(FIM)]

### **Year 1 (30 credit units)**

- [AGRC 110.3](#) Scientific Literacy and Communication for the Agricultural Sciences
- [AGRC 113.3](#) Introduction to Agri Food Economics
- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- [BIOL 120.3](#) The Nature of Life
- [CHEM 112.3](#) General Chemistry I Structure Bonding and Properties of Materials
- [COMM 101.3](#) Introduction to Business

- [ECON 111.3](#) Introductory Microeconomics
- [FABS 110.3](#) The Science of Food
- [MATH 104.3](#) Elementary Calculus or [MATH 110.3](#) Calculus I or [MATH 125.3](#) Mathematics for the Life Sciences

### English Language Writing Requirement

Choose 3 credit units from the following:

- [ANTH 302.3](#) The Practice of Ethnography
- [ANTH 306.3](#) Anthropology of Disaster and Dislocation
- [ANTH 310.3](#) Anthropology of Gender
- [CPSJ 203.3](#) Cultivating Humanity
- [ENG 111.3](#) Literature and Composition Reading Poetry
- [ENG 112.3](#) Literature and Composition Reading Drama
- [ENG 113.3](#) Literature and Composition Reading Narrative
- [ENG 114.3](#) Literature and Composition Reading Culture
- [ENG 120.3](#) Introduction to Creative Writing
- [HIST 115.3](#) History Matters Ideas and Culture
- [HIST 125.3](#) History Matters Indigenous Colonial and Post Colonial Histories
- [HIST 135.3](#) History Matters Gender Sex and Society
- [HIST 145.3](#) History Matters War Violence and Politics
- [HIST 155.3](#) History Matters Science and Environment
- [HIST 165.3](#) History Matters Health and Society
- [HIST 175.3](#) History Matters Identities and Communities in Transition
- [HIST 185.3](#) History Matters Conflict Law Politics and the State
- [HIST 193.3](#) History Matters Topics in Canadian History
- [HIST 194.3](#) History Matters Topics in European History
- [PHIL 120.3](#) Knowledge Mind and Existence
- [PHIL 121.3](#) Introduction to World Philosophies
- [PHIL 133.3](#) Introduction to Ethics and Values
- [PHIL 208.3](#) Ancient Philosophy Presocratics to Plato

- [PHIL 233.3](#) Ethical Theory
- [POLS 245.3](#) Politics of Africa
- [POLS 323.3](#) First Nations Policies and Programs
- [POLS 328.3](#) Public Policy Analysis
- [POLS 333.3](#) Theory and Politics of Law
- [POLS 336.3](#) Justice and Democracy
- [POLS 422.3](#) Indigenous Governance and Self Determined Sustainable Development
- [POLS 461.3](#) Topics in Global Politics
- [PSY 323.3](#) Qualitative Study of Lives and Social Practices
- [PSY 355.3](#) Research in Advanced Cognitive Science
- [RLST 280.3](#) Methodologies and Approaches to Study of Religions
- [RLST 362.3](#) Monsters and Mischief Makers

#### Year 2 (30 credit units)

- [AREC 230.3](#) Innovation and Entrepreneurship
- [AREC 272.3](#) Introduction to Agricultural Economics
- [BMSC 200.3](#) Biomolecules
- [COMM 201.3](#) Introduction to Financial Accounting or **COMM 225.3 Introduction to Accounting and Financial Literacy for Entrepreneurs**  
[COMM 203.3](#) Introduction to Finance\*
- [COMM 204.3](#) Introduction to Marketing
- [FABS 211.3](#) Introductory Bioproduct Science
- [FABS 212.3](#) Agrifood and Resources Microbiology
- [PLSC 214.3](#) Statistical Methods or [AREC 261.3](#) Agricultural Data Analytics I

\*Note: Students take [COMM 203.3](#) Introduction to Finance after completing [PLSC 214.3](#) Statistical Methods or [AREC 261.3](#) Agricultural Data Analytics I and [MATH 104.3](#) Elementary Calculus (or equivalent). See your academic program advisor for the necessary permission to be entered for [COMM 203.3](#) Introduction to Finance.

Note: If you plan to work in the food science area, choose [PLSC 214.3](#) Statistical Methods. If you plan to work in the industry management area, choose [AREC 261.3](#) Agricultural Data Analytics I

#### Choose 3 credit units from the following:

- [BIOL — 100-Level, 200-Level, 300-Level, 400-Level](#)

- [CHEM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GEOG 120.3](#) Introduction to Global Environmental Systems or GEOG 125.3
- [GEOL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHYS — 100-Level, 200-Level, 300-Level, 400-Level](#)

#### **Years 3 and 4 (60 credit units)**

- [AREC 322.3](#) Agricultural Finance
- [AREC 346.3](#) Principles of Selling
- [AREC 347.3](#) Agribusiness Marketing Management
- [AREC 348.3](#) Food Economics and Consumer Behaviour
- [AREC 354.3](#) Economic Decision Analysis in Agribusiness
- [AREC 428.3](#) Case Studies in Agribusiness Management or [AREC 495.3](#) Agribusiness Venture Management or [FABS 492.3](#) Literature Thesis
- [FABS 315.3](#) Food Chemistry
- [FABS 317.3](#) Food and Bioproducts Analysis
- [FABS 325.3](#) Food Microbiology and Safety
- [FABS 345.3](#) Unit Operations in Food Processing
- [FABS 452.3](#) Quality Assurance and HACCP

**Choose 3 credit units from the areas of Social Science, Humanities, or Fine Arts:**

#### **Humanities**

- [CHIN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CLAS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CREE — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ENG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [FREN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GERM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HEB — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HNDI — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [INTS — 100-Level, 200-Level, 300-Level, 400-Level](#)



- [JPNS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LATN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LIT — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHIL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RLST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RUSS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SNSK — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SPAN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [UKR — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- Certain WGST courses may be considered a Humanities and/or Social Science. Refer to the Class Search.
- MUS 111 is acceptable toward the Humanities requirement.

#### **Social Sciences**

- [ANTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARCH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ECON — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GEOG 130.3](#) Environment Health and Planning
- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [IS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LING — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PLAN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [POLS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PSY — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOSC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)

Any senior-level social science course, provided the prerequisite is met. Please note that certain GEOG courses are considered Science courses. Refer to the Class Search.

Statistics courses in social sciences are not accepted for credit toward the Social Science Requirement (eg. ECON 204, PSY 233, PSY 234, SOC 225 and SOC 325).

Certain WGST courses may be considered a Humanities and/or Social Science. Refer to the Class Search.

### **Fine Arts**

- [ART — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [DRAM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [MUS — 100-Level, 200-Level, 300-Level, 400-Level](#)

### **Choose 15 credit units of restricted electives from the following:**

- [AGRC 445.3](#) Experiential Learning in the Workplace
- [AREC 262.3](#) Agricultural Data Analytics II
- [AREC 315.3](#) Application of Microeconomic Theory to Agriculture
- [AREC 342.3](#) Industrial Organization of Agricultural Markets
- [AREC 356.3](#) The Economics of International Agribusiness
- [AREC 420.3](#) Operations Management for Agriculture
- [AREC 440.3](#) Agricultural Marketing Systems
- [AREC 451.3](#) Agricultural Policy Analysis
- [CHEM 115.3](#) General Chemistry II Chemical Processes
- [CHEM 221.3](#) Analytical Chemistry I
- [CHEM 250.3](#) Introduction to Organic Chemistry
- [COMM 205.3](#) Introduction to Operations Management
- [FABS 222.3](#) Improving Food Security through Food Science and Technology
- [FABS 298.3](#) Special Topics
- FABS 360.3
- [FABS 362.3](#) Functional Foods and Nutraceuticals
- [FABS 371.3](#) Food Biotechnology
- [FABS 398.3](#) Special Topics
- [FABS 401.3](#) Dairy Science and Technology
- [FABS 411.3](#) Lipid Science and Technology

- [FABS 456.3](#) Laboratory Techniques in Food and Bioproduct Sciences
- [FABS 457.3](#) Meat Science and Technology
- [FABS 460.3](#) Protein Science and Technology
- [FABS 474.3](#) Food Enzymology
- [FABS 493.3](#) Product Development
- [FABS 498.3](#) Special Topics
- [PLSC 420.3](#) Grain Chemistry and Technology

### Open Electives

Choose **9 credit units** of Open Electives

### Agricultural Biology

~~The Agricultural Biology program provides a comprehensive background in the life sciences and allows students to focus on particular areas relevant to agriculture, such as biotechnology, genetics and evolution, plant pathology, plant molecular biology and wildlife ecology, through selection of appropriate restricted and open electives.~~

The Agricultural Biology program provides students with a comprehensive background in the biological sciences while also providing a grounding in agriculture and food production. Students gain a focus on areas of interest through the selection of a specific minor.

### Programs

- [Bachelor of Science in Agriculture \(B.S.A.\) Honours - Agricultural Biology](#)
- [Bachelor of Science in Agriculture \(B.S.A.\) - Agricultural Biology](#)

### Agricultural Biology

Bachelor of Science in Agriculture (B.S.A.) Honours

#### Year 1 (30 credit units)

- [AGRC 110.3](#) Scientific Literacy and Communication for the Agricultural Sciences
- [AGRC 111.3](#) Introduction to Plant and Soil Sciences
- [AGRC 112.3](#) Animal Agriculture and Food Science
- [AGRC 113.3](#) Introduction to Agri Food Economics
- [AREC 220.3](#) History of Indigenous Agriculture in Canada or [INDG 107.3](#) Introduction to Canadian Indigenous Studies

- [BIOL 120.3](#) The Nature of Life
- [BIOL 121.3](#) The Diversity of Life
- [CHEM 112.3](#) General Chemistry I Structure Bonding and Properties of Materials
- ~~[CHEM 250.3](#) Introduction to Organic Chemistry~~

Choose 3 credit units from the following:

- **ASTR – 100-Level, 200-Level**
- **CHEM – 100-Level, 200-Level (CHEM 115.3 recommended)**
- **GEOL –100-Level, 200-Level**
- **PHYS – 100-Level, 200-Level**

Choose 3 credit units from the following:

Choose 3 credit units from the areas of Social Science, Humanities or Fine Arts.

#### Humanities

- [CHIN – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CLAS – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CREE – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ENG – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [FREN – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GERM – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HEB – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HIST – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HNDI – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [INTS – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [JPNS – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LATN – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LIT – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHIL – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RLST – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RUSS – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SNSK – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SPAN – 100-Level, 200-Level, 300-Level, 400-Level](#)

- [UKR — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- Certain WGST courses may be considered a Humanities and/or Social Science. Refer to the Class Search.
- MUS 111 is acceptable toward the Humanities requirement.

### **Social Sciences**

- [ANTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARCH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ECON — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GEOG 130.3](#) Environment Health and Planning
- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [IS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LING — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PLAN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [POLS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PSY — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOSC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)

Any senior-level social science course, provided the prerequisite is met. Please note that certain GEOG courses are considered Science courses. Refer to the Class Search.

Statistics courses in social sciences are not accepted for credit toward the Social Science Requirement (eg. ECON 204, PSY 233, PSY 234, SOC 225 and SOC 325).

Certain WGST courses may be considered a Humanities and/or Social Science. Refer to the Class Search.

### **Fine Arts**

- [ART — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [DRAM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [MUS — 100-Level, 200-Level, 300-Level, 400-Level](#)

### **Year 2 (30 credit units)**

- [BIOL 222.3](#) The Living Plant
- [BIOL 224.3](#) Animal Body Systems
- [BIOL 228.3](#) Ecology in a Changing World or [PLSC 213.3](#) Principles of Plant Ecology
- ~~[BIOL 226.3](#) Genes to Genomics~~
- ~~[BMSC 200.3](#) Biomolecules~~
- [CHEM 250.3](#) Introduction to Organic Chemistry
- ~~[FABS 212.3](#) Agrifood and Resources Microbiology or [BMSC 210.3](#) Microbiology~~
- [MATH 104.3](#) Elementary Calculus, [MATH 110.3](#) Calculus I or [MATH 125.3](#) Mathematics for the Life Sciences
- [PLSC 214.3](#) Statistical Methods or [STAT 245.3](#) Introduction to Statistical Methods
- ~~[STAT 103.3](#) Elementary Probability or [PHYS 115.3](#) Physics and the Universe~~

### English Language Writing Requirement

Choose 3 credit units from the following:

- [ANTH 302.3](#) The Practice of Ethnography
- [ANTH 306.3](#) Anthropology of Disaster and Dislocation
- [ANTH 310.3](#) Anthropology of Gender
- ~~[ANTH 421.3](#)~~
- [CPSJ 203.3](#) Cultivating Humanity
- [ENG 111.3](#) Literature and Composition Reading Poetry
- [ENG 112.3](#) Literature and Composition Reading Drama
- [ENG 113.3](#) Literature and Composition Reading Narrative
- [ENG 114.3](#) Literature and Composition Reading Culture
- [ENG 120.3](#) Introduction to Creative Writing
- [HIST 115.3](#) History Matters Ideas and Culture
- [HIST 125.3](#) History Matters Indigenous Colonial and Post Colonial Histories
- [HIST 135.3](#) History Matters Gender Sex and Society
- [HIST 145.3](#) History Matters War Violence and Politics
- [HIST 155.3](#) History Matters Science and Environment
- [HIST 165.3](#) History Matters Health and Society

- [HIST 175.3](#) History Matters Identities and Communities in Transition
- [HIST 185.3](#) History Matters Conflict Law Politics and the State
- [HIST 193.3](#) History Matters Topics in Canadian History
- [HIST 194.3](#) History Matters Topics in European History
- [PHIL 120.3](#) Knowledge Mind and Existence
- [PHIL 121.3](#) Introduction to World Philosophies
- [PHIL 133.3](#) Introduction to Ethics and Values
- [PHIL 208.3](#) Ancient Philosophy Presocratics to Plato
- [PHIL 233.3](#) Ethical Theory
- [POLS 245.3](#) Politics of Africa
- [POLS 323.3](#) First Nations Policies and Programs
- [POLS 328.3](#) Public Policy Analysis
- [POLS 333.3](#) Theory and Politics of Law
- [POLS 336.3](#) Justice and Democracy
- [POLS 422.3](#) Indigenous Governance and Self Determined Sustainable Development
- [POLS 461.3](#) Topics in Global Politics
- [PSY 323.3](#) Qualitative Study of Lives and Social Practices
- [PSY 355.3](#) Research in Advanced Cognitive Science
- [RLST 280.3](#) Methodologies and Approaches to Study of Religions
- [RLST 362.3](#) Monsters and Mischief Makers

Choose 3 credit units from the following:

- ~~[BIOC — 200-Level, 300-Level, 400-Level](#)~~
- ~~[BMSC 230.3](#) Metabolism~~
- ~~[BMSC 240.3](#) Laboratory Techniques~~
- [\*\*ASTR – 200-Level, 300-Level, 400-Level\*\*](#)
- [\*\*BMSC – 200-Level, 300-Level, 400-Level\*\*](#)
- [\*\*CHEM – 200-Level, 300-Level, 400-Level\*\*](#)
- [\*\*GEOL – 200-Level, 300-Level, 400-Level\*\*](#)
- [\*\*PHYS – 200-Level, 300-Level, 400-Level\*\*](#)
- [\*\*EVSC 220.3\*\* Environmental Soil Science or \*\*SLSC 240.3\*\* Agricultural Soil Science](#)

### Choose 3 credit units of Open Electives

### Choose 3 credit units of Restricted Electives:

Students are required to complete one of the approved minors for the Bachelor of Science in Agriculture (B.S.A.) degree within the College of Agriculture and Bioresources. Completion of the minor requirements may satisfy 18 credit units of the Restricted Electives requirement. At least 12 credit units in the minor must be chosen from courses that are not specifically listed as required for the major. The additional credit units must be chosen from:

- ~~ANBI 470.3 Applied Animal Biotechnology~~
- ~~ANSC 313.3 Animal Breeding and Genetics~~
- ~~ANSC 315.3 Animal and Poultry Nutrition~~
- ANBI – 200-Level, 300-Level, 400-Level
- ANSC – 200-Level, 300-Level, 400-Level
- BIOL – 200-Level, 300-Level, 400-Level
- BMSC 200.3 Biomolecules
- BMSC 230.3 Metabolism
- EVSC – 200-Level, 300-Level, 400-Level
- FABS – 200-Level, 300-Level, 400-Level
- PLSC – 200-Level, 300-Level, 400-Level
- RRM – 200-Level, 300-Level, 400-Level
- SLSC – 200-Level, 300-Level, 400-Level
- ~~SLSC 232.3 Soil Genesis and Classification~~
- ~~SLSC 240.3 Agricultural Soil Science~~
- ~~SLSC 312.3 Soil Fertility and Fertilizers~~
- ~~SLSC 444.3 Soil Ecology~~
- ~~SLSC 460.3 Forest Soils~~
- ~~VBMS 314.3 Comparative Anatomy of Domestic Animals~~
- ~~VBMS 324.3 Animal Physiology I~~
- ~~VBMS 325.3 Animal Physiology II~~
- ~~VLAC 411.3 Diseases of Ruminants~~
- ~~VTPA 412.3 Diseases of Poultry~~



- ~~Other courses as approved by the program advisor~~

### **Years 3 and 4 (60 credit units)**

#### **Choose 6 credit units of Ecology, Evolution, and Ecological Systems**

- **BIOL 302.3** Evolutionary Processes
- **BIOL 323.3** Plant Systematics and Evolution
- **BIOL 363.3** Population Ecology
- **BIOL 373.3** Community Ecology
- **BIOL 410.3** Current Perspectives in Environmental Biology
- **BIOL 470.3** Conservation Biology
- **BIOL 472.3** Animal Behaviour
- **BIOL 475.3** Ecological Toxicology
- **PBIO 230.3** On the Origin and Life of Animals
- **PLSC 413.3** Advanced Plant Ecology
- **PLSC 422.3** Rangeland Ecology and Management
- **PLSC 425.3** Forest Ecology
- **PLSC 427.3** Ecology and Management of Invasive Plants
- **PLSC 475.3** Insect Ecology
- **SLSC 444.3** Soil Ecology

#### **Choose 6 credit units of Cellular and Molecular Biology, Genetics, and Physiology**

- **ANSC 313.3** Animal Breeding and Genetics
- **BIOL 226.3** Genes to Genomics
- **BIOL 316.3** Genetic Analysis of Eukaryotes
- **BIOL 317.3** Fundamentals of Animal Physiology
- **BIOL 325.3** Plant Cells and Tissues
- **BIOL 326.3** Plant Development
- **BIOL 331.3** Plant Physiology
- **BIOL 418.3** Integrative Animal Systems Physiology
- **BIOL 420.3** Molecular Biology of Plants
- **BIOL 430.3** Neurobiology of Behaviour
- **BIOL 440.3** Photobiology
- **FABS 212.3** Agrifood and Resources Microbiology or **BMSC 210.3** Microbiology
- **PLSC 317.3** Plant Metabolism
- **PLSC 342.3** Medicinal Plants, Agriculture and Human Health
- **PLSC 405.3** Genetics of Plant Populations
- **PLSC 408.3** Global Plant Genetic Resources
- **PLSC 416.3** Applied Plant Biotechnology
- **PLSC 417.3** Crop Physiology
- **VBMS 324.3** Animal Physiology I
- **VBMS 325.3** Animal Physiology II

#### **Choose 6 credit units of Production Agriculture and Food Production**

- **ANSC 212.3** Livestock and Poultry Production
- **ANSC 301.3** Animal Production Tour
- **ANSC 315.3** Animal and Poultry Nutrition
- **ANSC 355.3** Sheep and Goat Management
- **ANSC 410.3** Cow Calf Management
- **ANSC 430.3** Intensive Management of Beef Cattle
- **ANSC 440.3** Poultry Production
- **ANSC 460.3** Intensive Management of Dairy Cattle
- **ANSC 485.3** Swine Production and Management
- **FABS 334.3** Industrial Microbiology
- **FABS 362.3** Functional Foods and Nutraceuticals
- **FABS 401.3** Dairy Science and Technology
- **FABS 457.3** Meat Science and Technology
- **FABS 493.3** Product Development
- **PLSC 201.3** Field Crops of Western Canada or **PLSC 222.3** Introduction to Field Crops
- **PLSC 220.3** Fundamentals of Horticulture
- **PLSC 235.3** Urban Agriculture
- **PLSC 330.3** Ornamental Plants
- **PLSC 333.3** Tropical Crops of the World
- **PLSC 342.3** Medicinal Plants, Agriculture and Human Health
- **PLSC 411.3** Plant Breeding
- **PLSC 420.3** Grain Chemistry and Technology
- **PLSC 433.3** Greenhouse Crop Production
- **PLSC 441.3** Fruit Science
- **PLSC 451.3** Vegetable Agronomy

**Choose 6 credit units of Quantitative Thought and Analysis**

- **BINF 151.3** Computing in the Biological Sciences
- **BINF 351.3** Introduction to Bioinformatics
- **BIOL 301.3** Critical Issues in Biology
- **BIOL 321.3** Mathematical Modelling for Biologists
- **CMPT 140.3** Introduction to Creative Computing
- **CMPT 141.3** Introduction to Computer Science
- **GEOG 222.3** Geomatics
- **GEOG 302.3** Quantitative Methods in Geography
- **GEOG 322.3** Geographic Information Systems
- **GEOG 323.3** Remote Sensing
- **MATH 116.3** Calculus II
- **MATH 164.3** Introduction to Linear Algebra
- **MATH 177.3** Advanced Calculus II
- **MATH 238.3** Introduction to Differential Equations
- **RRM 321.3** Resource Data and Environmental Modeling

**Choose 3 credit units of Economics and Policy**

- **AGRC 211.3** Global Food Security
- **AREC – 200-Level, 300-Level, 400-Level**
- **BIOL 324.3** Plants and Human Affairs
- **BIOL 342.3** Fungi Environment and People
- **ENVS 201.3** Foundations of Sustainability
- **FABS 452.3** Quality Assurance and HACCP
- **GEOG 110.3** Environmental Science and Society
- **GEOG 130.3** Environment Health and Planning
- **RRM 312.3** Natural Resource Management and Indigenous Peoples
- **TOX 321.3** Risk Assessment and Regulatory Toxicology

**Choose 6 credit units of Field/Lab Skills**

- **AGRC 311.3** International Study Tour
- **AGRC 445.3** Experiential Learning in the Workplace
- **ANBI 470.3** Applied Animal Biotechnology
- **ANBI 475.3** Field Studies in Arctic Ecosystems with Indigenous Peoples
- **BIOL 350.3** Field Course
- **CHEM 221.3** Analytical Chemistry I
- **CHEM 322.3** Analytical Chemistry II
- **EVSC 203.3** Sampling and Laboratory Analysis
- **EVSC 380.3** Grassland Soils and Vegetation
- **GEOL 204.3** Introduction to International Field Studies
- **PLSC 382.3** Introduction to Field Scouting
- **PLSC 470.3** Plant Propagation
- **SLSC 460.3** Forest Soils
- **SLSC 480.3** Soils and Boreal Landscapes

**Choose 3 credit units Organismal Biology**

- **BIOL 323.3** Plant Systematics and Evolution
- **BIOL 336.3** Animal Parasitology
- **BIOL 342.3** Fungi Environment and People
- **BIOL 361.3** Vertebrate Biology
- **BIOL 365.3** Insect Diversity and Evolution
- **BIOL 412.3** Limnology
- **BIOL 437.3** Parasitic Arthropod Vector Borne Diseases
- **BIOL 451.3** Ichthyology
- **BIOL 455.3** Mammal Diversity and Evolution
- **BIOL 458.3** Ornithology
- **BIOL 472.3** Animal Behaviour
- **PBIO 230.2** On the Origin and Life of Animals
- **PLSC 311.3** General Apiculture

- ~~BIOL 228.3 Ecology in a Changing World or PLSC 213.3 Principles of Plant Ecology (BIOL 228.3 Ecology in a Changing World is recommended for the Honours program in Agricultural Biology)~~
- ~~BMSC 220.3 Cell Biology or BIOL 317.3 Fundamentals of Animal Physiology or BIOL 331.3 Plant Physiology~~
- ~~PLSC 214.3 Statistical Methods or STAT 245.3 Introduction to Statistical Methods~~

**Choose 3 credit units from the following:**

- ~~BIOL 361.3 Vertebrate Biology~~
- ~~BIOL 365.3 Insect Diversity and Evolution~~
- ~~BIOL 436.3~~
- ~~BIOL 451.3 Ichthyology~~
- ~~BIOL 455.3 Mammal Diversity and Evolution~~
- ~~BIOL 458.3 Ornithology~~
- ~~BIOL 472.3 Animal Behaviour~~

**Choose 6 credit units from the following:**

Selection will depend upon the student's area of interest, availability of a research project, and permission of the department involved.

- ANSC 494.6 Research Thesis in Animal Science
- EVSC 494.6 Research and Thesis
- FABS 494.6 Research Thesis
- PLSC 494.6 Research Thesis in Plant Sciences
- SLSC 494.6 Research and Thesis

Or one of ANSC 492.3 Literature Thesis in Animal Science, EVSC 492.3 Research and Term Paper, FABS 492.3 Literature Thesis, PLSC 492.3 Project Thesis in Plant Sciences, or SLSC 492.3 Research and Term Paper and 3 credit units at the 300-level or higher from Restricted Electives.

**Choose 9 credit units from the following:**

- ~~BIOL 323.3 Plant Systematics and Evolution~~
- ~~BIOL 324.3 Plants and Human Affairs~~
- ~~BIOL 342.3 Fungi Environment and People~~
- ~~BIOL 345.3 Introductory Plant Pathology~~
- ~~BIOL 365.3 Insect Diversity and Evolution~~

- ~~BIOL 420.3 Molecular Biology of Plants~~
- ~~BIOL 436.3~~
- ~~BIOL 470.3 Conservation Biology~~
- ~~BIOL 475.3 Ecological Toxicology~~

### **Restricted Electives (24-18 credit units)**

Students are required to complete one of the approved minors for the Bachelor of Science in Agriculture (B.S.A.) degree within the College of Agriculture and Bioresources. Completion of the minor requirements may satisfy 18 credit units of the Restricted Electives requirement. At least 12 credit units in the minor must be chosen from courses that are not specifically listed as required for the major. The additional credit units must be chosen from:

- ~~ANBI 470.3 Applied Animal Biotechnology~~
- ~~ANSC 313.3 Animal Breeding and Genetics~~
- ~~ANSC 315.3 Animal and Poultry Nutrition~~
- **ANBI – 200-Level, 300-Level, 400-Level**
- **ANSC – 200-Level, 300-Level, 400-Level**
- **BIOL – 200-Level, 300-Level, 400-Level**
- **BMSC 200.3 Biomolecules**
- **BMSC 230.3 Metabolism**
- **EVSC – 200-Level, 300-Level, 400-Level**
- **FABS – 200-Level, 300-Level, 400-Level**
- **PLSC – 200-Level, 300-Level, 400-Level**
- **RRM – 200-Level, 300-Level, 400-Level**
- **SLSC – 200-Level, 300-Level, 400-Level**
- ~~SLSC 232.3 Soil Genesis and Classification~~
- ~~SLSC 240.3 Agricultural Soil Science~~
- ~~SLSC 312.3 Soil Fertility and Fertilizers~~
- ~~SLSC 444.3 Soil Ecology~~
- ~~SLSC 460.3 Forest Soils~~
- ~~VBMS 314.3 Comparative Anatomy of Domestic Animals~~
- ~~VBMS 324.3 Animal Physiology I~~

- ~~[VBMS 325.3](#) Animal Physiology II~~
- ~~[VLAC 411.3](#) Diseases of Ruminants~~
- ~~[VTPA 412.3](#) Diseases of Poultry~~
- ~~other courses as approved by the program advisor~~

### Open Electives

Choose 9 credit units of open electives

### Agricultural Biology

Bachelor of Science in Agriculture (B.S.A.)

#### Year 1 (30 credit units)

- [AGRC 110.3](#) Scientific Literacy and Communication for the Agricultural Sciences
- [AGRC 111.3](#) Introduction to Plant and Soil Sciences
- [AGRC 112.3](#) Animal Agriculture and Food Science
- [AGRC 113.3](#) Introduction to Agri Food Economics
- [AREC 220.3](#) History of Indigenous Agriculture in Canada or [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [BIOL 120.3](#) The Nature of Life
- [BIOL 121.3](#) The Diversity of Life
- [CHEM 112.3](#) General Chemistry I Structure Bonding and Properties of Materials
- ~~[CHEM 250.3](#) Introduction to Organic Chemistry~~

Choose 3 credit units from the following:

- **ASTR – 100-Level, 200-Level**
- **CHEM – 100-Level, 200-Level (CHEM 115.3 recommended)**
- **GEOL – 100-Level, 200-Level**
- **PHYS – 100-Level, 200-Level**

Choose 3 credit units from the following:

Choose 3 credit units from the areas of Social Science, Humanities or Fine Arts.

### Humanities

- [CHIN – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CLAS – 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CREE – 100-Level, 200-Level, 300-Level, 400-Level](#)

- [ENG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [FREN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GERM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HEB — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HNDI — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [INTS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [JPNS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LATN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LIT — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHIL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RLST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RUSS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SNSK — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SPAN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [UKR — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- Certain WGST courses may be considered a Humanities and/or Social Science. Refer to the Class Search.
- MUS 111 is acceptable toward the Humanities requirement.

#### **Social Sciences**

- [ANTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARCH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ECON — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GEOG 130.3](#) Environment Health and Planning
- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [IS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LING — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PLAN — 100-Level, 200-Level, 300-Level, 400-Level](#)

- [POLS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PSY — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOSC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)

Any senior-level social science course, provided the prerequisite is met. Please note that certain GEOG courses are considered Science courses. Refer to the Class Search.

Statistics courses in social sciences are not accepted for credit toward the Social Science Requirement (eg. ECON 204, PSY 233, PSY 234, SOC 225 and SOC 325).

Certain WGST courses may be considered a Humanities and/or Social Science. Refer to the Class Search.

#### Fine Arts

- [ART — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [DRAM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [MUS — 100-Level, 200-Level, 300-Level, 400-Level](#)

#### Year 2 (30 credit units)

- [BIOL 222.3](#) The Living Plant
- [BIOL 224.3](#) Animal Body Systems
- **BIOL 228.3** Ecology in a Changing World or **PLSC 213.3** Principles of Plant Ecology
- ~~**BIOL 226.3** Genes to Genomics~~
- ~~**BMSC 200.3** Biomolecules~~
- **CHEM 250.3** Introduction to Organic Chemistry
- ~~**FABS 212.3** Agrifood and Resources Microbiology or **BMSC 210.3** Microbiology~~
- [MATH 104.3](#) Elementary Calculus, [MATH 110.3](#) Calculus I or [MATH 125.3](#) Mathematics for the Life Sciences
- **PLSC 214.3** Statistical Methods or **STAT 245.3** Introduction to Statistical Methods
- ~~**STAT 103.3** Elementary Probability or **PHYS 115.3** Physics and the Universe~~

#### English Language Writing Requirement

Choose 3 credit units from the following:

- [ANTH 302.3](#) The Practice of Ethnography



- [ANTH 306.3](#) Anthropology of Disaster and Dislocation
- [ANTH 310.3](#) Anthropology of Gender
- ~~[ANTH 421.3](#)~~
- [CPSJ 203.3](#) Cultivating Humanity
- [ENG 111.3](#) Literature and Composition Reading Poetry
- [ENG 112.3](#) Literature and Composition Reading Drama
- [ENG 113.3](#) Literature and Composition Reading Narrative
- [ENG 114.3](#) Literature and Composition Reading Culture
- [ENG 120.3](#) Introduction to Creative Writing
- [HIST 115.3](#) History Matters Ideas and Culture
- [HIST 125.3](#) History Matters Indigenous Colonial and Post Colonial Histories
- [HIST 135.3](#) History Matters Gender Sex and Society
- [HIST 145.3](#) History Matters War Violence and Politics
- [HIST 155.3](#) History Matters Science and Environment
- [HIST 165.3](#) History Matters Health and Society
- [HIST 175.3](#) History Matters Identities and Communities in Transition
- [HIST 185.3](#) History Matters Conflict Law Politics and the State
- [HIST 193.3](#) History Matters Topics in Canadian History
- [HIST 194.3](#) History Matters Topics in European History
- [PHIL 120.3](#) Knowledge Mind and Existence
- [PHIL 121.3](#) Introduction to World Philosophies
- [PHIL 133.3](#) Introduction to Ethics and Values
- [PHIL 208.3](#) Ancient Philosophy Presocratics to Plato
- [PHIL 233.3](#) Ethical Theory
- [POLS 245.3](#) Politics of Africa
- [POLS 323.3](#) First Nations Policies and Programs
- [POLS 328.3](#) Public Policy Analysis
- [POLS 333.3](#) Theory and Politics of Law
- [POLS 336.3](#) Justice and Democracy

- [POLS 422.3](#) Indigenous Governance and Self Determined Sustainable Development
- [POLS 461.3](#) Topics in Global Politics
- [PSY 323.3](#) Qualitative Study of Lives and Social Practices
- [PSY 355.3](#) Research in Advanced Cognitive Science
- [RLST 280.3](#) Methodologies and Approaches to Study of Religions
- [RLST 362.3](#) Monsters and Mischief Makers

**Choose 3 credit units from the following:**

- ~~[BIOC — 200-Level, 300-Level, 400-Level](#)~~
- ~~[BMSC 230.3](#) Metabolism~~
- ~~[BMSC 240.3](#) Laboratory Techniques~~
- [ASTR — 200-Level, 300-Level, 400-Level](#)
- [BMSC — 200-Level, 300-Level, 400-Level](#)
- [CHEM — 200-Level, 300-Level, 400-Level](#)
- [GEOL — 200-Level, 300-Level, 400-Level](#)
- [PHYS — 200-Level, 300-Level, 400-Level](#)
- [EVSC 220.3](#) Environmental Soil Science or [SLSC 240.3](#) Agricultural Soil Science

**Choose 3 credit units of Open Electives**

**Choose 3 credit units of Restricted Electives**

Students are required to complete one of the approved minors for the Bachelor of Science in Agriculture (B.S.A.) degree within the College of Agriculture and Bioresources. Completion of the minor requirements may satisfy 18 credit units of the Restricted Electives requirement. At least 12 credit units in the minor must be chosen from courses that are not specifically listed as required for the major. The additional credit units must be chosen from:

- ~~[ANBI 470.3](#) Applied Animal Biotechnology~~
- ~~[ANSC 313.3](#) Animal Breeding and Genetics~~
- ~~[ANSC 315.3](#) Animal and Poultry Nutrition~~
- [ANBI — 200-Level, 300-Level, 400-Level](#)
- [ANSC — 200-Level, 300-Level, 400-Level](#)
- [BIOL — 200-Level, 300-Level, 400-Level](#)
- [BMSC 200.3](#) Biomolecules
- [BMSC 230.3](#) Metabolism
- [EVSC — 200-Level, 300-Level, 400-Level](#)

- [FABS — 200-Level, 300-Level, 400-Level](#)
- [PLSC — 200-Level, 300-Level, 400-Level](#)
- **RRM – 200-Level, 300-Level, 400-Level**
- **SLSC – 200-Level, 300-Level, 400-Level**
- ~~**SLSC 232.3** Soil Genesis and Classification~~
- ~~**SLSC 240.3** Agricultural Soil Science~~
- ~~**SLSC 312.3** Soil Fertility and Fertilizers~~
- ~~**SLSC 444.3** Soil Ecology~~
- ~~**SLSC 460.3** Forest Soils~~
- ~~**VBMS 314.3** Comparative Anatomy of Domestic Animals~~
- ~~**VBMS 324.3** Animal Physiology I~~
- ~~**VBMS 325.3** Animal Physiology II~~
- ~~**VLAC 411.3** Diseases of Ruminants~~
- ~~**VTPA 412.3** Diseases of Poultry~~
- ~~Other courses as approved by the program advisor~~

### **Years 3 and 4 (60 credit units)**

#### **Choose 6 credit units of Ecology, Evolution, and Ecological Systems**

- **BIOL 302.3** Evolutionary Processes
- **BIOL 323.3** Plant Systematics and Evolution
- **BIOL 363.3** Population Ecology
- **BIOL 373.3** Community Ecology
- **BIOL 410.3** Current Perspectives in Environmental Biology
- **BIOL 470.3** Conservation Biology
- **BIOL 472.3** Animal Behaviour
- **BIOL 475.3** Ecological Toxicology
- **PBIO 230.3** On the Origin and Life of Animals
- **PLSC 413.3** Advanced Plant Ecology
- **PLSC 422.3** Rangeland Ecology and Management
- **PLSC 425.3** Forest Ecology
- **PLSC 427.3** Ecology and Management of Invasive Plants
- **PLSC 475.3** Insect Ecology
- **SLSC 444.3** Soil Ecology

#### **Choose 6 credit units of Cellular and Molecular Biology, Genetics, and Physiology**

- **ANSC 313.3** Animal Breeding and Genetics

- **BIOL 226.3** Genes to Genomics
- **BIOL 316.3** Genetic Analysis of Eukaryotes
- **BIOL 317.3** Fundamentals of Animal Physiology
- **BIOL 325.3** Plant Cells and Tissues
- **BIOL 326.3** Plant Development
- **BIOL 331.3** Plant Physiology
- **BIOL 418.3** Integrative Animal Systems Physiology
- **BIOL 420.3** Molecular Biology of Plants
- **BIOL 430.3** Neurobiology of Behaviour
- **BIOL 440.3** Photobiology
- **FABS 212.3** Agrifood and Resources Microbiology or **BMSC 210.3** Microbiology
- **PLSC 317.3** Plant Metabolism
- **PLSC 342.3** Medicinal Plants, Agriculture and Human Health
- **PLSC 405.3** Genetics of Plant Populations
- **PLSC 408.3** Global Plant Genetic Resources
- **PLSC 416.3** Applied Plant Biotechnology
- **PLSC 417.3** Crop Physiology
- **VMBS 324.3** Animal Physiology I
- **VBMS 325.3** Animal Physiology II

**Choose 6 credit units of Production Agriculture and Food Production**

- **ANSC 212.3** Livestock and Poultry Production
- **ANSC 301.3** Animal Production Tour
- **ANSC 315.3** Animal and Poultry Nutrition
- **ANSC 355.3** Sheep and Goat Management
- **ANSC 410.3** Cow Calf Management
- **ANSC 430.3** Intensive Management of Beef Cattle
- **ANSC 440.3** Poultry Production
- **ANSC 460.3** Intensive Management of Dairy Cattle
- **ANSC 485.3** Swine Production and Management
- **FABS 334.3** Industrial Microbiology
- **FABS 362.3** Functional Foods and Nutraceuticals
- **FABS 401.3** Dairy Science and Technology
- **FABS 457.3** Meat Science and Technology
- **FABS 493.3** Product Development
- **PLSC 201.3** Field Crops of Western Canada or **PLSC 222.3** Introduction to Field Crops
- **PLSC 220.3** Fundamentals of Horticulture
- **PLSC 235.3** Urban Agriculture
- **PLSC 330.3** Ornamental Plants
- **PLSC 333.3** Tropical Crops of the World
- **PLSC 342.3** Medicinal Plants, Agriculture and Human Health
- **PLSC 411.3** Plant Breeding
- **PLSC 420.3** Grain Chemistry and Technology
- **PLSC 433.3** Greenhouse Crop Production

- **PLSC 441.3** Fruit Science
- **PLSC 451.3** Vegetable Agronomy

**Choose 6 credit units of Quantitative Thought and Analysis**

- **BINF 151.3** Computing in the Biological Sciences
- **BINF 351.3** Introduction to Bioinformatics
- **BIOL 301.3** Critical Issues in Biology
- **BIOL 321.3** Mathematical Modelling for Biologists
- **CMPT 140.3** Introduction to Creative Computing
- **CMPT 141.3** Introduction to Computer Science
- **GEOG 222.3** Geomatics
- **GEOG 302.3** Quantitative Methods in Geography
- **GEOG 322.3** Geographic Information Systems
- **GEOG 323.3** Remote Sensing
- **MATH 116.3** Calculus II
- **MATH 164.3** Introduction to Linear Algebra
- **MATH 177.3** Advanced Calculus II
- **MATH 238.3** Introduction to Differential Equations
- **RRM 321.3** Resource Data and Environmental Modeling

**Choose 3 credit units of Economics and Policy**

- **AGRC 211.3** Global Food Security
- **AREC – 200-Level, 300-Level, 400-Level**
- **BIOL 324.3** Plants and Human Affairs
- **BIOL 342.3** Fungi Environment and People
- **ENVS 201.3** Foundations of Sustainability
- **FABS 452.3** Quality Assurance and HACCP
- **GEOG 110.3** Environmental Science and Society
- **GEOG 130.3** Environment Health and Planning
- **RRM 312.3** Natural Resource Management and Indigenous Peoples
- **TOX 321.3** Risk Assessment and Regulatory Toxicology

**Choose 6 credit units of Field/Lab Skills**

- **AGRC 311.3** International Study Tour
- **AGRC 445.3** Experiential Learning in the Workplace
- **ANBI 470.3** Applied Animal Biotechnology
- **ANBI 475.3** Field Studies in Arctic Ecosystems with Indigenous Peoples
- **BIOL 350.3** Field Course
- **CHEM 221.3** Analytical Chemistry I
- **CHEM 322.3** Analytical Chemistry II
- **EVSC 203.3** Sampling and Laboratory Analysis
- **EVSC 380.3** Grassland Soils and Vegetation
- **GEOL 204.3** Introduction to International Field Studies
- **PLSC 382.3** Introduction to Field Scouting

- **PLSC 470.3** Plant Propagation
- **SLSC 460.3** Forest Soils
- **SLSC 480.3** Soils and Boreal Landscapes

**Choose 3 credit units Organismal Biology**

- **BIOL 323.3** Plant Systematics and Evolution
- **BIOL 336.3** Animal Parasitology
- **BIOL 342.3** Fungi Environment and People
- **BIOL 361.3** Vertebrate Biology
- **BIOL 365.3** Insect Diversity and Evolution
- **BIOL 412.3** Limnology
- **BIOL 437.3** Parasitic Arthropod Vector Borne Diseases
- **BIOL 451.3** Ichthyology
- **BIOL 455.3** Mammal Diversity and Evolution
- **BIOL 458.3** Ornithology
- **BIOL 472.3** Animal Behaviour
- **PBIO 230.2** On the Origin and Life of Animals
- **PLSC 311.3** General Apiculture
- ~~**BIOL 228.3** Ecology in a Changing World or **PLSC 213.3** Principles of Plant Ecology (**BIOL 228.3** Ecology in a Changing World is recommended for the Honours program in Agricultural Biology)~~
- ~~**BMSC 220.3** Cell Biology or **BIOL 317.3** Fundamentals of Animal Physiology or **BIOL 331.3** Plant Physiology~~
- ~~**PLSC 214.3** Statistical Methods or **STAT 245.3** Introduction to Statistical Methods~~

**Choose 3 credit units from the following:**

- ~~**BIOL 361.3** Vertebrate Biology~~
- ~~**BIOL 365.3** Insect Diversity and Evolution~~
- ~~**BIOL 436.3**~~
- ~~**BIOL 451.3** Ichthyology~~
- ~~**BIOL 455.3** Mammal Diversity and Evolution~~
- ~~**BIOL 458.3** Ornithology~~
- ~~**BIOL 472.3** Animal Behaviour~~

**Choose 3 credit units from the following:**

Selection will depend upon the student's area of interest.

- **ANSC 492.3** Literature Thesis in Animal Science

- [EVSC 492.3](#) Research and Term Paper
- [FABS 492.3](#) Literature Thesis
- [PLSC 492.3](#) Project Thesis in Plant Sciences
- [SLSC 492.3](#) Research and Term Paper

### Restricted Electives (~~30~~ 21 credit units)

Direct entry students are required to select a minor in one of the fields of specialization within the College of Agriculture and Bioresources or an approved cross-college minor. Completion of the minor requirements will satisfy 18 credit units of the Restricted Electives requirement. At least 12 credit units in the minor must be courses that are not specifically listed as required for the major. The additional credit units must be chosen from:

- ~~[ANBI 470.3](#) Applied Animal Biotechnology~~
- ~~[ANSC 313.3](#) Animal Breeding and Genetics~~
- ~~[ANSC 315.3](#) Animal and Poultry Nutrition~~
- [ANBI – 200-Level, 300-Level, 400-Level](#)
- [ANSC – 200-Level, 300-Level, 400-Level](#)
- [BIOL – 200-Level, 300-Level, 400-Level](#)
- [BMSC 200.3](#) Biomolecules
- [BMSC 230.3](#) Metabolism
- [EVSC – 200-Level, 300-Level, 400-Level](#)
- [FABS – 200-Level, 300-Level, 400-Level](#)
- [PLSC – 200-Level, 300-Level, 400-Level](#)
- [RRM – 200-Level, 300-Level, 400-Level](#)
- [SLSC – 200-Level, 300-Level, 400-Level](#)
- ~~[SLSC 232.3](#) Soil Genesis and Classification~~
- ~~[SLSC 240.3](#) Agricultural Soil Science~~
- ~~[SLSC 312.3](#) Soil Fertility and Fertilizers~~
- ~~[SLSC 444.3](#) Soil Ecology~~
- ~~[SLSC 460.3](#) Forest Soils~~
- ~~[VBMS 314.3](#) Comparative Anatomy of Domestic Animals~~
- ~~[VBMS 324.3](#) Animal Physiology I~~

- ~~VBMS 325.3 Animal Physiology II~~
- ~~VLAC 411.3 Diseases of Ruminants~~
- ~~VTPA 412.3 Diseases of Poultry~~
- ~~Other courses as approved by the program advisor~~

### **~~Open Electives~~**

~~Choose 15 credit units of open electives~~

### **Revisions to College Regulations:**

College Regulations

### **Grading Deadlines**

Final grades for Fall and Winter Term courses offered by the College of Agriculture and Bioresources with no final examination are due by the last day of the final exam period for that term.



## University Course Challenge – August 2025

The curricular revisions listed below were approved through the Arts & Science College Course and Program Challenge, and by the relevant college-level Academic Programs Committee, and are now submitted to the University Course Challenge for approval.

Contact: Alexis Dahl ([alexis.dahl@usask.ca](mailto:alexis.dahl@usask.ca))

## Item for Information – Correction

### English

#### Minor program revisions:

##### **Bachelor of Arts Three-year in English**

Incorrect Catalogue entry was included in the May 2025 UCC.

##### Bachelor of Arts Three-year (B.A. Three-year) - English

#### **A4 Major Requirement (30 credit units)**

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#### **Further A4 Major Requirements:**

(a) At least 12 of the 24 senior credit units must be at the 300-level

(b) At least 3 credit units from ENG 242.3 Indigenous Storytelling of the Prairies, ENG 243.3 Introduction to Indigenous Literatures, ENG 335.3 The Emergence of Indigenous Literatures in Canada or ENG 338.3 Contemporary North American Indigenous Literatures to meet the **Indigenous Learning** requirement

(c) At least 3 of the 24 senior credit units must be a Canadian course

- ENG 254.3 Canadian Speculative Fiction
- ENG 255.3 Mapping Canadian Literature
- ~~ENG 259.3 Western Canadian Literature~~
- ~~ENG 294.3 Techniques of Canadian Poetry from Sonnet to Spoken Word~~
- ~~ENG 305.3 Canadian Fiction from Beginnings to 1960~~
- ~~ENG 352.3 Canadian Fiction~~
- ~~ENG 355.3 Canadian Poetry~~
- ENG 358.3 Canadian Drama
- ~~ENG 359.3 Western Canadian Literature~~
- ~~ENG 382.3 Canadian Fiction from 1960 to the Present~~
- ENG 418.3 Topics in 19th Century Canadian Literature
- ENG 466.3 Topics in 20th Century Canadian Literature

## **College of Education – University Course Challenge, August 2025**

### **For Information**

In April 2025, a new Michif Language Stream was approved for the Certificate in Indigenous Languages (ILC) through University Course Challenge. Ten new ECUR courses were also approved. Since that time, the College of Education Faculty Council has made a minor adjustment to the set of course numbers to be used for these new Michif courses. These changes are noted here (in red) for information only:

### **Michif Language Stream (30 credit units)**

- ECUR ~~440.3~~ 460.3: Michif Immersion Language Camp 1
- ECUR ~~441.3~~ 461.3: Michif Language, Learning and Epistemology
- ECUR ~~442.3~~ 462.3: Root Word Method
- ECUR ~~443.3~~ 463.3: Methods I Second Language Methodologies (Michif)
- ECUR ~~444.3~~ 464.3: Traditional and Contemporary Fine Arts
- ECUR ~~445.3~~ 465.3: Introduction to Total Physical Response and Drama for Language (Michif)
- ECUR ~~446.3~~ 466.3: Methods II Second Language Methodologies (Michif)
- ECUR ~~447.3~~ 467.3: Digital Technologies for Indigenous Language Learning (Michif)
- ECUR ~~448.3~~ 468.3: Introduction to Master Apprentice Program (Michif)
- ECUR ~~449.3~~ 469.3: Michif Immersion Language Camp 2: Everyday Michif

## College of Kinesiology – University Course Challenge, August 2025

The following changes have been approved by the college and are being submitted to University Course Challenge for approval:

### Minor Course Revisions

#### KIN 334.3: Theory of Coaching

Designed to provide the student with an appreciation and understanding of the theory and practice of coaching. Students will look at the development of techniques of communication between the coach, individuals and/or groups as they relate to team organization and integration. There will be a development of the concept that coaching is a specialized form of teaching.

**Weekly hours:** 3 Lecture hours

~~**Restriction(s):** Students must be entering third year or fourth year of their program. in the College of Kinesiology or the College of Education.~~

**Prerequisite(s):** KIN 146 and KIN 150 OR KIN 121, KIN 122, and KIN 150.

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#### KIN 423.3: Adapted Physical Activity

Focuses on physical activity programs for persons with impairments. Current trends in Canadian physical activity program philosophy and delivery are considered in concert with the more general philosophy and delivery systems for persons with impairments. Basic adapted physical activity principles focusing on activity, program and instructional modification are also considered.

**Weekly hours:** 3 Lecture hours

~~**Restriction(s):** Students must be entering third year or fourth year of their program. in the College of Kinesiology or the College of Education.~~

**Prerequisite(s):** KIN 146 or KIN 121 and KIN 122.

**Rationale:** Prerequisites are adequate to restrict these courses; listing a further restriction is not necessary.

## **College of Nursing – University Course Challenge, August 2025**

The following changes have been approved by the college and are being submitted to University Course Challenge for information:

### **NURS 330.3: Maternal Child and Adolescent Family Centered Nursing**

Using evidenced-based theories, and practice, explores health concepts and health challenges of the infant, child, adolescent and child bearing family within the context of family centred care across a continuum of nursing care experiences. Incorporates the concepts of health promotion, wellness, self-determination, individualized, and safe care within an interprofessional and legally prudent environment.

**Weekly hours:** 4 Lecture hours

**Restriction(s):** Restricted to students in the College of Nursing who are registered in the B.S.N. program or the Post-Degree B.S.N. Option.

**Prerequisite(s):** NURS 221

**Pre or Corequisite(s):** NURS 311 or NURS 305

**Prerequisite(s):** ~~NURS 221.3.~~

**Prerequisite(s) or Corequisite(s):** ~~NURS 311.3 and NURS 312.3 for B.S.N. students or NURS 305.6 for Post-Degree B.S.N. Option students.~~

**Note:** Students who do not successfully complete NURS 312.3 will not be permitted to take NURS 330.3 in the Spring Term. Students with credit for NURS 370 will not receive credit for this course.

## **August 2025 University Course Challenge**

### **Office of the Provost - Authorized Leave Course Proposal**

The following new course has been approved by the Registrar, the Office of the Provost, and the Academic Programs Committee (APC) Executive and is being proposed to University Course Challenge, as follows:

#### **New Course Proposal**

##### **MSUG 001 – On Authorized Leave**

Over the years, it has become clear that students on an approved Immigration, Refugees, and Citizenship Canada (IRCC) study permit require a recognized approved leave status. This can be accomplished through having students registered in a type of “placeholder” course. Registration in this course will provide documentation of their IRCC authorized leave status and will have the added benefit of helping the colleges advise students, pull reports, track program-time-completion, and ensure better compliance with our government regulations. Similar to a graduate-level Maintenance of Status course, this course has academic implications. As a result, it needs to be listed on official transcripts. The details of this course are, as follows:

##### **MSUG 001 – On Authorized Leave**

This course will display on transcripts. Registration will be handled by staff, the course will be available to undergraduate students on authorized leaves of absence, will carry off-campus or distance student fees, and no tuition will be assessed.