



## Academic Programs Committee of Council

### University Course Challenge

**Scheduled posting: January 2022**

The following types of curricular and program changes are approved by the University Course Challenge -- additions and deletions of courses, lower levels of study and program options; straightforward program changes; and curricular changes which affect other colleges.

**Contents include submissions for information and approval from the following colleges:**

College of Agriculture and Bioresources  
College of Arts and Science  
College of Dentistry  
College of Engineering  
College of Graduate and Postdoctoral Studies  
College of Law  
College of Nursing  
College of Pharmacy and Nutrition  
School of Environment and Sustainability

**Approval:**      Date of circulation: January 14, 2022  
                         Date of effective approval if no challenge received: January 31, 2022

**Next scheduled posting:**

The next scheduled posting will be February 14, 2022, with a submission deadline of **February 10, 2021**. 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 Registrarial Services and [amanda.storey@usask.ca](mailto:amanda.storey@usask.ca) in the Governance Office.

## **College of Agriculture and Bioresources University Course Challenge Submission (January 2022)**

The following curricular revisions were approved by the College of Agriculture & Bioresources Undergraduate Affairs Committee on October 20, November 17, and December 16, 2021. They are being submitted to University Course Challenge for final approval.

### **New Course Proposal**

#### **AREC 348.3 Food Economics and Consumer Behaviour**

The course covers topical issues in food economics and consumer behaviour, the drivers of consumer food choices, and implications for food and agribusinesses. Insights from behavioural economics and marketing are used to explore different models of consumer behaviour, along with methods to measure and evaluate consumer preferences, attitudes, and choice behaviours. Topical issues in differentiated consumer food markets are examined, for example, sustainability, animal welfare, health and nutrition, local foods, and consumer responses to new technologies. Key questions include: what drives consumer behaviours and preferences, what tools are available to measure and evaluate these behaviours and preferences, and what are the implications for the food and agribusiness sector.

Prerequisite(s): AREC 272.3 or ECON 211.3

**Rationale:** The course addresses a gap in the current B.Sc. Agribusiness undergraduate program. While other courses touch on consumer behaviour issues, this course provides an opportunity to explore these issues systematically and to a greater depth. It is important for students of agribusiness to develop a holistic view of the agriculture sector that includes food markets and consumers, and to be able to think through how changes in consumer behaviour affect the agribusiness sector. Each module provides an overview of the topic and why it matters to agribusiness and food firms, provides insights from theory (e.g., behavioural economics, marketing), and features a data analysis or interpretation component. The course enhances students' data analysis and interpretation skills through extensive use of survey data in assignments. The course may also be of interest to other students in the College of Agriculture and Bioresources who hold the necessary prerequisites. The course was offered as a special topics course (AREC398.3) in Term 2 2020-21 (remote delivery), with very positive feedback from the students in SLEQ evaluations (enrollment 13: mixture of 3<sup>rd</sup> and 4<sup>th</sup> year B.Sc. Agribusiness and B.S.A. (Agricultural Economics major) students.

### **Changes to Program Requirements**

#### **Agricultural Economics**

The revisions to the catalogue for the Agricultural Economics Honours and Agricultural Economics major incorporate revisions to the B.S.A. core, clarify course sequencing, and reflect changes to available courses.

#### **Agricultural Economics**

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

**Year 1 (30 credit units) ~~Fall Term (15 credit units)~~**

- [AGRC 111.3](#) Discovery in Plant and Soil Sciences

- [AGRC 112.3](#) Animal Agriculture and Food Science
- [AGRC 113.3](#) Agri Food Issues and Institutions
- 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 1—Winter Term (15 credit units)**

- ~~AGRC 112.3 Animal Agriculture and Food Science~~
- ~~AGRC 113.3 Agri Food Issues and Institutions~~
- ~~BIOL 121.3 The Diversity of Life~~
- ~~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 (continued from Term 1 if a 6 credit unit course or a new 3 credit unit course for Term 2).

**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~~
- ~~HINDI 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~~
- ~~SOSE — 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 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](#) Mathematical Analysis for Business and Economics or [MATH 125.3](#) Mathematics for the Life Sciences
- [PLSC 214.3](#) Statistical Methods or [STAT 245.3](#) Introduction to Statistical Methods
- ~~RCM 200.3~~ [AGRC 110.3](#) Scientific Literacy and Communication for the Agricultural Sciences

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

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

- [ANTH 302.3](#) The Practice of Ethnography
- [ANTH 310.3](#) Anthropology of Gender
- [ANTH 405.3](#) Anthropology of Disaster and Disruption
- [ANTH 421.3](#) Anthropology in Time: Early Influences
- [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
- [INTS 203.3](#) Cultivating Humanity

- 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 First Nations Governance
- 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

**Open Electives**

- Choose 3 credit units of open electives

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

- [AREC 315.3](#) Application of Microeconomic Theory to Agriculture
- [AREC 322.3](#) Agricultural Business Investment Analysis Finance and Risk
- [AREC 342.3](#) Industrial Organization of Agricultural Markets
- ~~[AREC 361.3](#) Intermediate Statistics and Decision Making and [AREC 461.3](#) Agricultural Commodity Analysis or~~ [ECON 304.3](#) Introduction to Empirical Economics and [ECON 408.3](#) Econometrics 1



- [AREC 494.6](#) Research and Technical Writing Honours Thesis
- [COMM 201.3](#) Introduction to Financial Accounting
- [COMM 203.3](#) Introduction to Finance
- [COMM 204.3](#) Introduction to Marketing
- [MATH 164.3](#) Introduction to Linear Algebra

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

- HIST 254.3
- [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](#) Business and Professional Ethics
- [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 can be used toward this requirement~~

Note: AREC 356.3 The Economics of International Agribusiness and AREC 348.3 Food Economics and Consumer Behaviour can be used towards this requirement.

**Choose 6 credit units of restricted electives from the following:**

- [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](#)
- [GEOG 130.3](#) Environment Health and Planning or equivalent
- [GEOG — 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](#)
- [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

### **Agricultural Economics**

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

### Year 1 (30 credit units) – ~~Fall Term (15 credit units)~~

- [AGRC 111.3](#) Discovery in Plant and Soil Sciences
- [AGRC 112.3](#) Animal Agriculture and Food Science
- [AGRC 113.3](#) Agri Food Issues and Institutions
- [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 1 — Winter Term (15 credit units)**

- ~~[AGRC 112.3](#) Animal Agriculture and Food Science~~
- ~~[AGRC 113.3](#) Agri Food Issues and Institutions~~
- ~~[BIOL 121.3](#) The Diversity of Life~~
- ~~[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 (continued from Term 1 if a 6 credit unit course or a new 3 credit unit course for Term 2).

**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 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](#) Mathematical Analysis for Business and Economics or [MATH 125.3](#) Mathematics for the Life Sciences
- [PLSC 214.3](#) Statistical Methods or [STAT 245.3](#) Introduction to Statistical Methods
- ~~[RCM 200.3](#)~~ [AGRC 110.3](#) Scientific Literacy and Communication for the Agricultural Sciences

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

### Choose 3 credit units from the following:

- [ANTH 302.3](#) The Practice of Ethnography
- [ANTH 310.3](#) Anthropology of Gender
- [ANTH 405.3](#) Anthropology of Disaster and Disruption
- [ANTH 421.3](#) Anthropology in Time: Early Influences
- [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
- INTS 203.3 Cultivating Humanity
- 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 First Nations Governance
- 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

**Open Electives**

- Choose 3 credit units of open electives

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

- [AREC 315.3](#) Application of Microeconomic Theory to Agriculture
- [AREC 322.3](#) Agricultural Business Investment Analysis Finance and Risk



- [AREC 342.3](#) Industrial Organization of Agricultural Markets
- ~~AREC 361.3 Intermediate Statistics and Decision Making and AREC 461.3 Agricultural Commodity Analysis or~~ [ECON 304.3](#) Introduction to Empirical Economics and [ECON 408.3](#) Econometrics 1
- [AREC 492.3](#) Research Project and Technical Writing
- [COMM 201.3](#) Introduction to Financial Accounting
- [COMM 203.3](#) Introduction to Finance
- [COMM 204.3](#) Introduction to Marketing

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

- HIST 254.3
- [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](#) Business and Professional Ethics
- [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 can be used toward this requirement~~

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

**Rationale:** These revisions help to increase flexibility in course scheduling, clarify course sequencing, and bring the Agricultural Economics Honour and Agricultural Economics major in-line with the other B.S.A. majors.

## Agribusiness

The revisions to the catalogue for the Bachelor of Science in Agribusiness Honours and Bachelor of Science in Agribusiness programs clarify course sequencing and reflect changes to available courses.

## Agribusiness

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

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

- [AGRC 111.3](#) Discovery in Plant and Soil Sciences
- [ECON 111.3](#) Introductory Microeconomics

### Choose 3 credit units from the following:

- [ANTH 302.3](#) The Practice of Ethnography
- [ANTH 310.3](#) Anthropology of Gender
- [ANTH 405.3](#) Anthropology of Disaster and Disruption
- [ANTH 421.3](#) Anthropology in Time: Early Influences
- [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
- INTS 203.3 Cultivating Humanity
- 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 First Nations Governance
- 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](#) Environmental Science and Society
- [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 1 - Winter Term (15 credit units)**

- [AGRC 112.3](#) Animal Agriculture and Food Science
- [AGRC 113.3](#) Agri Food Issues and Institutions
- [ECON 114.3](#) Introductory Macroeconomics

#### **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](#) Environmental Science and Society
- [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 272.3](#) Introduction to Agricultural Economics
- [COMM 101.3](#) Introduction to Business
- [COMM 203.3](#) Introduction to Finance
- [COMM 204.3](#) Introduction to Marketing
- [ECON 211.3](#) Intermediate Microeconomics
- [MATH 104.3](#) Elementary Calculus or [MATH 110.3](#) Calculus I or [MATH 121.3](#) Mathematical Analysis for Business and Economics or [MATH 125.3](#) Mathematics for the Life Sciences
- [PLSC 214.3](#) Statistical Methods or [STAT 245.3](#) Introduction to Statistical Methods



- RCM 200.3

Note: Students in this program may be required to take [ECON 211.3](#) Intermediate Microeconomics to meet upper year course requirements.

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

### Open Electives

Choose 6 credit units of Open Electives.

Note: Students in this program must take [ECON 214.3](#) Intermediate Macroeconomics as an open or restricted elective prior to taking [ECON 408.3](#) Econometrics 1.

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

- [AREC 315.3](#) Application of Microeconomic Theory to Agriculture
- [AREC 322.3](#) Agricultural Business Investment Analysis Finance and Risk
- [AREC 342.3](#) Industrial Organization of Agricultural Markets
- [AREC 343.3](#) Grain and Livestock Marketing
- [AREC 347.3](#) Agribusiness Marketing Management
- ~~[AREC 361.3](#) Intermediate Statistics and Decision Making and [AREC 461.3](#) Agricultural Commodity Analysis~~ or [ECON 304.3](#) Introduction to Empirical Economics and [ECON 408.3](#) Econometrics 1
- [AREC 494.6](#) Research and Technical Writing Honours Thesis
- [AREC 495.3](#) Agribusiness Venture Management or [AREC 428.3](#) Case Studies in Agribusiness Management
- [COMM 201.3](#) Introduction to Financial Accounting
- [MATH 164.3](#) Introduction to Linear Algebra

### Open Electives

Choose 6 credit units of Open Electives.

Note: Students in this program must take [ECON 214.3](#) Intermediate Macroeconomics as an open or restricted elective prior to taking [ECON 408.3](#) Econometrics 1.

### Restricted Electives

Choose 18 credit units restricted electives from the following: 12 of the 18 credit units must be AREC 400-level.

- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- [AREC 222.3](#) Introduction to Farm Business Management

- [AREC 230.3](#) Innovation and Entrepreneurship
- AREC 238.3
- [AREC 251.3](#) Introduction to Agricultural Policy
- [AREC 254.3](#) Agribusiness Taxation
- [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](#) Agribusiness Management Information Systems
- [AREC 356.3](#) The Economics of International Agribusiness (can be used as a 400-level restricted elective)
- [AREC 395.3](#) Creative Thinking and the Entrepreneurial Process
- [AREC 400.3](#) Entrepreneurial Leadership Leading Development Change and Growth in New Business
- [AREC 420.3](#) Operations Management for Agriculture
- [AREC 428.3](#) Case Studies in Agribusiness Management
- [AREC 430.3](#) Natural Resource Economics
- [AREC 432.3](#) Rural Development Theory and Applications
- [AREC 433.3](#) Methods of Rural Analysis Theory and Application
- AREC 434.3
- [AREC 435.3](#) Agricultural Finance and Appraisal
- [AREC 440.3](#) Agricultural Marketing Systems
- [AREC 445.3](#) Competition Regulation and Antitrust Theory and Applications
- [AREC 451.3](#) Agricultural Problems and Policies
- [AREC 459.3](#) The Economics of Agricultural Innovation
- [AREC 495.3](#) Agribusiness Venture Management
- [COMM 105.3](#) Introduction to Organizational Behaviour
- [COMM 210.3](#) Introduction to Management Accounting
- [COMM 304.3](#) Introduction to Business Law
- [COMM 340.3](#) Introduction to International Business

- [COMM 342.3](#) Organization Structure and Design
- [COMM 345.3](#) Business and Public Policy
- [COMM 347.3](#) Aboriginal 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
- [ECON 214.3](#) Intermediate Macroeconomics
- [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 Peoples

Note: Students in the AgBus B. Sc. Honours program will be required to take Econ 214.3 as an open or restricted elective prior to taking [ECON 408.3](#) Econometrics 1.

## **Agribusiness**

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

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

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

- [AGRC 111.3](#) Discovery in Plant and Soil Sciences
- [AGRC 112.3](#) Animal Agriculture and Food Science

- [AGRC 113.3](#) Agri Food Issues and Institutions
- [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](#) Mathematical Analysis for Business and Economics 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.

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

- [ANTH 302.3](#) The Practice of Ethnography
- [ANTH 310.3](#) Anthropology of Gender
- [ANTH 405.3](#) Anthropology of Disaster and Disruption
- [ANTH 421.3](#) Anthropology in Time: Early Influences
- [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
- [INTS 203.3](#) Cultivating Humanity

- 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 First Nations Governance
- 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](#) Environmental Science and Society
- [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 272.3](#) Introduction to Agricultural Economics
- [COMM 201.3](#) Introduction to Financial Accounting
- [COMM 203.3](#) Introduction to Finance
- [COMM 204.3](#) Introduction to Marketing
- [PLSC 214.3](#) Statistical Methods or [STAT 245.3](#) Introduction to Statistical Methods
- RCM 200.3

#### 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](#) Environmental Science and Society
- [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](#)

#### **Open Electives**

Choose 3 credit units of Open Electives.

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

- [AREC 315.3](#) Application of Microeconomic Theory to Agriculture
- [AREC 322.3](#) Agricultural Business Investment Analysis Finance and Risk
- [AREC 342.3](#) Industrial Organization of Agricultural Markets
- [AREC 343.3](#) Grain and Livestock Marketing
- [AREC 347.3](#) Agribusiness Marketing Management

- [AREC 361.3](#) Intermediate Statistics and Decision Making
- [AREC 495.3](#) Agribusiness Venture Management or [AREC 428.3](#) Case Studies in Agribusiness Management

### **Open Electives**

Choose 18 credit units of Open Electives.

### **Restricted Electives**

Choose 21 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 21 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](#) Agricultural Finance and Appraisal
- [AREC 451.3](#) Agricultural Problems and Policies
- [COMM 211.3](#) Human Resource Management
- [COMM 306.3](#) Ethics and Strategic Decision Making
- COMM 229.3

### **Economics and Policy**

- AREC 238.3
- [AREC 251.3](#) Introduction to Agricultural Policy
- [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 Problems and Policies

- [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](#) Welfare Economics and General Equilibrium
- 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](#) Agribusiness Management Information Systems
- [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 21 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 21 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
- [AREC 251.3](#) Introduction to Agricultural Policy
- [AREC 254.3](#) Agribusiness Taxation
- [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](#) Agribusiness Management Information Systems
- [AREC 356.3](#) The Economics of International Agribusiness (can be used as a 400-level restricted elective)
- [AREC 395.3](#) Creative Thinking and the Entrepreneurial Process
- [AREC 400.3](#) Entrepreneurial Leadership Leading Development Change and Growth in New Business
- [AREC 420.3](#) Operations Management for Agriculture
- [AREC 428.3](#) Case Studies in Agribusiness Management
- [AREC 430.3](#) Natural Resource Economics
- [AREC 432.3](#) Rural Development Theory and Applications
- [AREC 433.3](#) Methods of Rural Analysis Theory and Application
- AREC 434.3
- [AREC 435.3](#) Agricultural Finance and Appraisal
- [AREC 440.3](#) Agricultural Marketing Systems
- [AREC 445.3](#) Competition Regulation and Antitrust Theory and Applications
- [AREC 451.3](#) Agricultural Problems and Policies
- [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
- [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](#) Aboriginal 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](#) Welfare Economics and General Equilibrium
- 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 Peoples

**Rationale:** These revisions help to increase flexibility in course scheduling, clarify course sequencing, and reflect changes to available courses.

## University Course Challenge – January 2021

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))

### College

#### Minor program revisions All Degree Programs

Add GEOG 465 to the list of courses eligible to be included in the Indigenous Learning requirement.

While the following list illustrates all courses eligible to be used in the College's Indigenous Learning Requirement, some fields of study will use a subset of this list. This is necessary to account for the variety of disciplines taught across the college. Specific options for each major will be shown in the Course and Program Catalogue, and programmed in Degree Works.

#### Indigenous Learning

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

- [ANTH 202.3](#) Anthropological Approaches to Aboriginal Research in Canada
- [ANTH 480.3](#) Indigenous Peoples and Mental Health Anthropological and Related Perspectives
- [ARCH 350.3](#) Introduction to Boreal Forest Archaeology
- [DRAM 111.3](#) Practicum I Indigenous Performance Methods
- [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
- [GEOG 465.3 Environment and Health in Indigenous Communities](#)
- [HIST 195.3](#) History Matters Indigenous Perspectives on Canadian History
- [HIST 257.3](#) The Canadian Prairie to 1905
- [HIST 266.3](#) History Wars Issues in Native Newcomer Relations
- [HIST 315.3](#) Indigenous Health History
- [HIST 316.3](#) History of the Métis in Twentieth Century Prairie Canada
- [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [LING 253.3](#) Indigenous Languages of Canada
- [PLAN 445.3](#) Planning with Indigenous Communities
- [POLS 222.3](#) Indigenous Governance and Politics
- [INDG — 200-Level, 300-Level, 400-Level](#)

Rationale: The additional course has been approved for inclusion in the list by the Indigenous Course Committee, which is a standing committee of the College of Arts and Science Faculty Council. More choice on this list will benefit students, who will have more flexibility to select a course that fits with their schedule and aligns with their interests.

## **College of Dentistry - University Course Challenge, January 2022**

The following curricular revisions have been approved through the College of Dentistry Faculty Council and are being submitted to University Course Challenge for final approval, as follows:

### **Program and Course Revisions, Doctor of Dental Medicine (D.M.D.)**

The college has approved the creation of a new course, called DENT 586.32 Clinical Comprehensive Care to replace the following courses in the D.M.D. program: DENT 519.5, 520.3, 530.5, 540.5, 548.3, 560.3, 575.3 and DENT 585.5. No change to overall credit units for the D.M.D. is being proposed.

### **New Course Proposal**

#### **DENT 586.32 Clinical Comprehensive Care**

The Clinical Comprehensive Care course requires students to provide patient care in a comprehensive manner. Procedures from multiple disciplines will be performed in any comprehensive care clinic, if deemed appropriate at the Prerequisites/Restrictions

**Restrictions:** Must be enrolled as an undergraduate student in the Dentistry.

### **Course Deletions**

#### **DENT 519.5: Periodontics**

Emphasizes and reinforces the methods of managing periodontal diseases that have been learned earlier. Recent advances in periodontics will be introduced and seminars involving student presentation of case reports will be held. Student clinical experience is continued in the form of comprehensive care.

Weekly hours: 1 Lecture hours and 4 Clinical Service hours

#### **DENT 520.3: Operative Dentistry IV**

Consists mainly of routine general dental care of patients, providing the full range of restorative dental procedures including the examination, diagnosis and treatment of traumatic injuries to teeth as well as damage due to dental caries. More complex situations will be encountered and new materials and techniques included. Emphasis will be placed on independent and comprehensive dental care.

Weekly hours: 1 Lecture hours and 3 Clinical Service hours

#### **DENT 530.5: Removable Prosthodontics IV**

Clinical practice in complete and removable partial dentures with an emphasis on self-evaluation and peer evaluation. This course also includes lectures and seminars with in-depth discussions of selected prosthodontic and related topics.

Weekly hours: 1 Lecture hours and 3 Clinical Service hours

### **DENT 540.5: Fixed Prosthodontics III**

Lectures, seminars and clinical practice in fixed prosthodontics with a strong emphasis on treatment planning and sequencing.

Weekly hours: 1 Lecture hours and 3 Clinical Service hours

### **DENT 548.3: Oral Medicine and CPRCs**

Various oral medicine topics are covered, including the management of oral lesions, radiation therapy and chemotherapy patients, patients with salivary disorders and patients with infectious diseases. In addition, students participate in multi-disciplinary seminars to gain experience in applying previous knowledge to simulated clinical patient cases (CPRC's). Students also perform dental emergency procedures and diagnosis and treatment planning under faculty guidance in the emergency, diagnosis and oral medicine/oral pathology clinics.

Weekly hours: 2 Lecture hours and 3 Clinical Service hours

### **DENT 560.3: Endodontics**

Through clinical work, students enhance their clinical skills by managing patients with endodontic problems on an increasingly independent basis. Conservative orthograde endodontic therapy is the treatment of choice; however, students are encouraged to observe the surgical management of endodontic lesions. Students should develop an appreciation of the varying degrees of difficulty associated with endodontic procedures, and an understanding of their own limitations in certain cases. The ability to review the literature critically and evaluate objectively new concepts and techniques should enter into their decision making. Lastly, the need for self-evaluation and continuing education is stressed.

Weekly hours: 3 Clinical Service hours

Note: Students with credit for DENT 550 will not receive credit for this course.

### **DENT 575.3: Implant Prosthodontics II**

Clinical sessions only in fourth year. This clinic provides clinical exposure to implant restorations for clinic patients who were treatment planned during the third year implant prosthodontics course and had implant fixtures placed.

Weekly hours: 2.5 Clinical Service hours

Prerequisite(s): DENT 475.2



## **DENT 585.5: Comprehensive Care Clinics**

The Comprehensive Care Clinics will allow patient care to be provided in a comprehensive manner. Procedures from multiple disciplines will be able to be done at the same appointment, if deemed appropriate at the time.

### Program Revisions, as follows:

#### **Doctor of Dental Medicine (D.M.D.) (207 credit units)**

##### **Year 1 - 42 credit units**

- ACB 334.3
- [DENT 206.1](#) Dental Ethics, Professionalism and Misconduct
- [DENT 208.3](#) Principles and Practice of Dentistry
- [DENT 210.2](#) Application of Dental Research to Clinical Decision Making I
- [DENT 214.2](#) Oral Histology and Embryology
- [DENT 220.6](#) Operative Dentistry I
- [DENT 221.2](#) Dental Materials I
- [DENT 225.2](#) Dental Anatomy and Morphology
- [DENT 226.3](#) Occlusion
- [DENT 291.18](#) Principles of Biomedical Science for Dentistry Students

##### **Year 2 - 58 credit units**

- [DENT 301.2](#) Oral Radiology I
- [DENT 306.6](#) Human Oral Infectious Diseases
- [DENT 309.2](#) Communication Skills I
- [DENT 314.3](#) Oral Microbiology Immunology and Physiology
- [DENT 317.3](#) Orthodontics I
- [DENT 319.4](#) Periodontics I
- [DENT 320.5](#) Operative Dentistry II
- [DENT 321.2](#) Dental Materials II
- [DENT 324.3](#) Pedodontics I
- [DENT 330.5](#) Removable Prosthodontics II
- [DENT 340.4](#) Fixed Prosthodontics I
- [DENT 348.3](#) Diagnosis I
- [DENT 353.2](#) Local Anaesthesia
- [DENT 360.5](#) Endodontics II
- [DENT 388.3](#) Infection Control in Dentistry
- [DENT 392.6](#) Pharmacology

### Year 3 - 58 credit units

- [DENT 401.3](#) Oral Radiology II
- [DENT 409.2](#) Communication Skills II
- [DENT 417.4](#) Orthodontics II
- [DENT 419.5](#) Periodontics II
- [DENT 420.5](#) Operative Dentistry III
- [DENT 424.4](#) Pedodontics II
- [DENT 430.6](#) Removable Prosthodontics III
- [DENT 440.5](#) Fixed Prosthodontics II
- [DENT 448.3](#) Diagnosis II
- [DENT 455.2](#) Basic Internal Medicine
- [DENT 460.5](#) Endodontics III
- [DENT 463.3](#) Oral and Maxillofacial Surgery I
- [DENT 466.2](#) Hospital Rosters
- [DENT 475.4](#) Implant Prosthodontics I
- [DENT 480.2](#) Dental Practice Management I
- [DENT 486.3](#) Oral Pathology

### Year 4 - 49 credit units

- [DENT 501.2](#) Oral Radiology
- [DENT 517.4](#) Orthodontics
- ~~[DENT 519.5](#) Periodontics~~
- ~~[DENT 520.3](#) Operative Dentistry IV~~
- [DENT 524.4](#) Pedodontics III
- ~~[DENT 530.5](#) Removable Prosthodontics IV~~
- ~~[DENT 540.5](#) Fixed Prosthodontics III~~
- [DENT 542.2](#) Health Sciences Interdisciplinary Relationships
- ~~[DENT 548.3](#) Oral Medicine and CPRCs~~
- ~~[DENT 560.3](#) Endodontics~~
- [DENT 563.3](#) Advanced Oral and Maxillofacial Surgery II
- ~~[DENT 575.3](#) Implant Prosthodontics II~~
- [DENT 580.2](#) Dental Practice Management II
- ~~[DENT 585.5](#) Comprehensive Care Clinics~~
- [DENT 586.32](#) **Clinical Comprehensive Care**

### Rationale for changes:

The proposed amalgamation will better integrate the academic and clinical values of the USask DMD program. As a result, students will be able to “live and breathe” the comprehensive care

model from classroom to clinic. In addition, the proposed amalgamation will provide better management of student and faculty time.

### **International Dental Degree Program (IDDP)**

The IDDP program admits citizens or residents of Canada who have completed a degree in dentistry from an international program that is not accredited by the Commission on Dental Accreditation of Canada (CDAC). Students must demonstrate a level of preclinical knowledge, acumen, and technical skill that is, at minimum, comparable to that of dental students who have completed year 2 of the Doctor of Dental Medicine (D.M.D.) program. This level of competency will be demonstrated through successful completion of the [DENT 497.0](#) Essential Skills in Dentistry course in this program. Students will join the D.M.D. program in year 3 and will complete years 3 and 4, which is the clinical component of the D.M.D. program. Successful completion of the program will allow the granting of a D.M.D. degree and will provide eligibility to sit the National Dental Examining Board of Canada (NDEB) examinations, successful completion of which is required for licensure in Canada.

### **D.M.D. Program Requirements (107 credit units)**

IDDP students are required to complete the last two years of the standard-route D.M.D. program, alongside students who were admitted through the standard D.M.D. admission process.

### **Year 1 - 58 credit units**

This year of study matches up with Year 3 in the standard-route D.M.D. program.

**Note:** [DENT 497.0](#) Essential Skills in Dentistry Essential Dentistry Skills must be successfully completed.

- [DENT 401.3](#) Oral Radiology II
- [DENT 409.2](#) Communication Skills II
- [DENT 417.4](#) Orthodontics II
- [DENT 419.5](#) Periodontics II
- [DENT 420.5](#) Operative Dentistry III
- [DENT 424.4](#) Pedodontics II
- [DENT 430.6](#) Removable Prosthodontics III

- [DENT 440.5](#) Fixed Prosthodontics II
- [DENT 448.3](#) Diagnosis II
- [DENT 455.2](#) Basic Internal Medicine
- [DENT 460.5](#) Endodontics III
- [DENT 463.3](#) Oral and Maxillofacial Surgery I
- [DENT 466.2](#) Hospital Rosters
- [DENT 475.4](#) Implant Prosthodontics I
- [DENT 480.2](#) Dental Practice Management I
- [DENT 486.3](#) Oral Pathology

## Year 2 - 49 credit units

This year of study matches up with Year 4 in the standard-route D.M.D. program.

- [DENT 501.2](#) Oral Radiology
- [DENT 517.4](#) Orthodontics
- ~~[DENT 519.5](#) Periodontics~~
- ~~[DENT 520.3](#) Operative Dentistry IV~~
- [DENT 524.4](#) Pedodontics III
- ~~[DENT 530.5](#) Removable Prosthodontics IV~~
- ~~[DENT 540.5](#) Fixed Prosthodontics III~~
- [DENT 542.2](#) Health Sciences Interdisciplinary Relationships
- ~~[DENT 548.3](#) Oral Medicine and CPRCs~~
- ~~[DENT 560.3](#) Endodontics~~
- [DENT 563.3](#) Advanced Oral and Maxillofacial Surgery II
- ~~[DENT 575.3](#) Implant Prosthodontics II~~
- [DENT 580.2](#) Dental Practice Management II
- ~~[DENT 585.5](#) Comprehensive Care Clinics~~
- [DENT 586.32](#) **Clinical Comprehensive Care**



## College of Engineering Submission to University Course Challenge

January 2022

The following changes have been approved by the College of Engineering Undergraduate Academic Programs Committee and are now being submitted to the UCC for further review and approval.

Contact: Aleksandra Pajic ([Aleksandra.pajic@usask.ca](mailto:Aleksandra.pajic@usask.ca))

### Complementary Studies Elective list

- Add GE 450.3 Technological Innovation Management to the list of the Complementary Studies list in Chemical, Computer, Electrical, Environmental, Mechanical Engineering and Engineering Physics programs.
- To add GE 431.3 Engineering Entrepreneurship Capstone to the list of the Complementary Studies list in Chemical, Computer, Electrical, Environmental, Mechanical Engineering and Engineering Physics programs.

Rationale: Both courses fit the CEAB definition of Complementary Studies: *Complementary studies include humanities, social sciences, arts, languages, management, engineering economics and communications*, and would offer more choices to the EN students.

#### Complementary Studies Elective

- [ANTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARBC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARCH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARTH — 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](#)
- [CMRS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [COMM 201.3](#) Introduction to Financial Accounting
- [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 211.3](#) Human Resource Management
- [COMM 304.3](#) Introduction to Business Law
- [COMM 306.3](#) Ethics and Strategic Decision Making
- [COMM 308.3](#) Cost Management Systems
- [COMM 321.3](#) Corporate Financial Reporting I
- [COMM 323.3](#) Corporate Financial Reporting II
- COMM 329.3
- [COMM 337.3](#) Business Information and Accounting Systems
- [COMM 340.3](#) Introduction to International Business



- [COMM 342.3](#) Organization Structure and Design
- [COMM 343.3](#) Recruitment Selection and Engagement
- [COMM 345.3](#) Business and Public Policy
- [COMM 346.3](#) Technology Commercialization
- [COMM 347.3](#) Indigenous Business in Canada
- [COMM 348.3](#) Leadership
- [COMM 349.3](#) Introduction to Entrepreneurship
- [COMM 352.3](#) Marketing Strategy
- [COMM 354.3](#) Consumer Behaviour
- [COMM 357.3](#) Marketing Research
- [CREE — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ECON 111.3](#) Introductory Microeconomics
- [ECON 114.3](#) Introductory Macroeconomics
- [ECON 211.3](#) Intermediate Microeconomics
- [ECON 214.3](#) Intermediate Macroeconomics
- [ECON 221.3](#) Women and the Economy
- [ECON 223.3](#) Labour Economics
- [ECON 227.3](#) Wage Determination
- [ECON 234.3](#) Economics of Health Care
- [ECON 254.3](#) International Trading System
- [ECON 256.3](#) International Monetary System
- [ECON 270.3](#) Development in Non Industrialized Countries
- [ECON 275.3](#) Economics of Natural Resources
- [ECON 277.3](#) Economics of the Environment
- [ECON 280.3](#) Classical Economics
- [ENG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [FREN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GE 450.3](#) Technological Innovation Management
- [GE 431.3](#) Engineering Entrepreneurship Capstone
- [GEOG 130.3](#) Environment Health and Planning
- [GEOG 202.3](#) Regional Geography of Canada
- [GEOG 204.3](#) Geography of the Prairie Region
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 280.3](#) Environmental Geography
- [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](#)
- [HNDI — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [IS — 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](#)
- [LIT — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [MUS 101.3](#) Fundamentals of Music
- [PHIL 120.3](#) Knowledge Mind and Existence
- [PHIL 121.3](#) Introduction to World Philosophies
- [PHIL 133.3](#) Introduction to Ethics and Values
- [PHIL 140.3](#) Critical Thinking



- [PHIL 202.3](#) Philosophy of Religion
- [PHIL 206.3](#) Early Modern Philosophy
- [PHIL 208.3](#) Ancient Philosophy Presocratics to Plato
- [PHIL 209.3](#) Ancient Philosophy Aristotle to Plotinus
- [PHIL 210.3](#) Medieval Philosophy I From Rome to Baghdad and Paris
- [PHIL 218.3](#) Existentialism
- [PHIL 219.3](#) Phenomenology
- [PHIL 224.3](#) Philosophy of Sexuality
- [PHIL 226.3](#) Environmental Philosophy
- [PHIL 227.3](#) Feminist Philosophy
- [PHIL 227.3](#) Feminist Philosophy
- [PHIL 231.3](#) Moral Problems
- [PHIL 233.3](#) Ethical Theory
- [PHIL 234.3](#) Biomedical Ethics
- [PHIL 235.3](#) Business and Professional Ethics
- [PHIL 236.3](#) Ethics and Technology
- [PHIL 237.3](#) Law and Morality
- [PHIL 238.3](#) Ethical Issues in Scientific Research
- [PHIL 251.3](#) Philosophy of Science
- [PHIL 262.3](#) Social and Political Philosophy
- [PHIL 265.3](#) Decision and Choice Theory
- [PHIL 271.3](#) Aesthetics and Philosophy of Art
- [PHIL 281.3](#) Theory of Knowledge
- [PHIL 285.3](#) Persons Minds and Bodies
- [PHIL 292.3](#) Metaphysics Reality Existence and Change
- [PHIL 294.3](#) Philosophy of Human Nature
- PHIL 296.3
- [POLS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PSY — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RCM — 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](#)

### **Electrical Engineering Program Requirement – New Focus Area**

- Create a focus area in the Electrical Engineering program called Autonomous Mobile Robotics consisting of the 6 classes: EE 367.3 (Mobile Robotics I), EE 368.3 (Mobile Robotics Programming), EE 464.3 (Design of an Autonomous Mobile Robotic System), EE 466.3 (Image Processing), EE 467.3 (Computer Vision) and EE 469.3 (Mobile Robotics II).  
Rationale: One of the priorities in the College's strategic plan is to create a Robotics Engineering Program. The foundational argument for introducing a Robotics stream in EE was to increase the enrolment in both first year and, of course, in the Electrical Engineering program.



## Year 3 (33 credit units)

Focus Areas – Students must complete two focus areas from Power and Energy; Digital Signal Processing and Applications, ~~or~~ Sensors, Circuits and Devices **or Autonomous Mobile Robotics**.

### Fall Term

- 6 credit units First Focus Area
- 6 credit units Second Focus Area (or 3 credit units is Second Focus Area is Autonomous Mobile Robotics)
- [CME 331.3](#) Microprocessor Based Embedded Systems
- [GE 348.3](#) Engineering Economics

### Winter Term

- 3 credit units First Focus Area
- 3 credit units Science Elective List 1 or List 2
- 3 credit units Second Focus Area (or 6 credit units is Second Focus Area is Autonomous Mobile Robotics)
- [EE 382.3](#) Control Systems
- RCM 200.3

## Year 4 (33 credit units)

Focus Areas – Students must complete two focus areas from Power and Energy; Digital Signal Processing and Applications, ~~or~~ Sensors, Circuits and Devices **or Autonomous Mobile Robotics**.

### Fall Term

- 3 credit units Senior Humanities/Social Elective
- 6 credit units First Focus Area
- 6 credit units Second Focus Area

### Winter Term

- 3 credit units Complementary Studies Elective
- 3 credit units First Focus Area
- 3 credit units Second Focus Area
- [GE 449.3](#) Engineering in Society

### Fall Term and Winter Term

- [EE 495.6](#) Senior Design Project





## New Course Proposals

- Create new course **EE 367.3** (Mobile Robotics I).  
EE 367: This course introduces the fundamental concepts and techniques of autonomous mobile robotics. Topics include Robot Operating System (ROS) basics, mobile robot kinematics, coordinate frame transformations, mobile robot sensors (e.g., accelerometers, gyroscopes, magnetometers, scanning laser rangefinder, camera), path planning, and fundamentals of digital signal processing.  
Prerequisite: EE 265
- Create course **EE 368.3** (Mobile Robotics Programming).  
EE 368: This course is a hands-on introduction to the Robot Operating System (ROS) and a number of tools commonly used in robots. The focus is on autonomous mobile robotics. Students learn how to create the software that is used to interface to mobile robot sensors and actuators and implement motion control algorithms. They then debug their software using ROS tools and test it using simulation tools and finally implement their software on a mobile robot.  
Prerequisite: EE 367
- Create course **EE 464.3** (Design of an Autonomous Mobile Robotics System).  
EE464: This course falls under the category of “guided design”. The students are guided through the design and implementation of the algorithms needed to control an autonomous mobile robot used to accomplish a specified task. The specific mobile robot system that is designed in this course will change from time to time as necessary to maintain relevancy.  
Prerequisite: EE 469
- Create course **EE 469.3** (Mobile Robotics II).  
EE469: This course covers some of the more advanced concepts and techniques of autonomous mobile robotics. The primary focus of the course is mobile robot mapping, probabilistic based localization, and mobile robot motion control including techniques for vision-based control.  
Prerequisite: EE 368

## Autonomous Mobile Robotics

### Year 3- Fall Term

EE 367.3 Mobile Robotics I

### Year 3- Winter Term

EE 368.3 Mobile Robotics Programming

EE 466.3 Image Processing

### Year 4- Fall Term

EE 467.3 Computer Vision

EE 469.3 Mobile Robotics II

### Year 4- Winter Term

EE 464.3 Design of an Autonomous Mobile Robotics System.

**Remove Image Processing Option, as follows:**

- Remove the image processing option in the Digital Signal Processing and Application stream.  
Rationale: Two of the three image processing classes that form image processing option within the DSP stream will also be part of the Robotics Stream. It is believed that students interested in image processing will take the Robotics Stream leaving the third image processing class in the image processing option with very low enrolment. Removing the image processing option would eliminate the teaching of the third image processing class. It would also allow the other two image processing classes to use material in robotics classes, which would increase their value in the robotics engineering stream.

## Digital Signal Processing and Applications

### Year 3 - Fall Term

- [CME 341.3](#) Logic Design Using FPGAs
- [EE 362.3](#) Digital Signal Processing

### Year 3 - Winter Term

- [EE 365.3](#) Algorithms and Circuits with Finite Precision Arithmetics

~~And, if choosing two dimensional image processing/computer visions courses:~~

- ~~[EE 466.3](#) Image Processing~~

### Year 4 - Fall Term

- [EE 456.3](#) Digital Communication
- [EE 461.3](#) Digital Filter Design

~~Or, if choosing two dimensional image processing/computer visions courses:~~

- ~~[EE 467.3](#) Computer Vision~~

### Year 4 - Winter Term

- [EE 465.3](#) Design of a DSP System

~~Or, if choosing two dimensional image processing/computer visions courses:~~

- ~~[EE 468.3](#) Design of a Computer Vision System~~



### Course Prerequisite Changes

- Change the prerequisites for EE 466.3 (Image Processing) from Prerequisites: EE365 to Prerequisites: EE 367 (Mobile Robotics 1).  
Rationale: EE 466 (Image Processing) is very different than digital signal processing in most respects. The signal in “image processing” is an image, which is a two dimensional array (i.e. a matrix), whereas a signal in “DSP” is an infinite sequence of samples (i.e. an infinite length vector). The fundamental difference is that DSP signals are processed one sample at a time in the order they arrive whereas images are processed after the entire image is in hand, which provides much more freedom in processing. However, there are some basic DSP principles that apply to image processing, which is why EE365 was listed as a prerequisite. These basic DSP principles have been included in EE 367 (Mobile Robotics I) (about 9 lecture-hours of material). This allows EE 367 to replace EE365 as a prerequisite.
- Change the prerequisites for EE 467.3 (Computer Vision) from Prerequisites: EE365 and EE 466 (Image Processing) to Prerequisites: EE 466 (Image Processing), and change the corequisites from Corequisites: EE 466 (Image Processing) to Corequisites: None.  
Rationale: In the early stage of developing EE466 and EE467 the plan was put them in the same term. Later, EE466 was moved to second term of third year and was designed to be a prerequisite to EE 467. Unfortunately, the paper work to change the corequisites and prerequisites was not done.



UNIVERSITY OF SASKATCHEWAN

## College of Graduate and Postdoctoral Studies

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### UNIVERSITY COURSE CHALLENGE SUBMISSION

January 2022

The following curricular revisions have been approved by the College of Graduate and Postdoctoral Studies and are being submitted here for final approval:

#### New Course

##### School of Environment and Sustainability

##### **ENVS 819.3 Catchment Hydrology**

The movement of chemicals in aquatic systems has major implications for water policy and management. A wide variety of man-made contaminants reach aquatic systems. Case studies will investigate the properties that determine where chemicals will go in the environment and whether they will pose risks when they get there.

**Note:** Students with credit for ENVS 823 or TOX 843 will not receive credit for this course

**Prerequisite(s):** Students must be registered in the Master of Water Security program or have permission of the instructor.

**Instructor:** Dr. Jeffrey McDonnell, Associate Director, Global Institute for Water Security

**Rationale:** This course will replace GEOG 826 (Fundamentals of Hydrology) as the introductory course to the Master of Water Security degree. This new ENVS 819 course has been tailored to the level and needs of our incoming cohort and builds fundamental knowledge and skills that are scaffolded through the MWS courses that follow. Additionally, this new course allows us to employ the outstanding faculty expertise (ie, world renowned Water Security scholar and instructor Dr. Jeffrey McDonnell) that SENS has within its own faculty complement.

**Changes to program requirements:** This course will be a required course in the Master of Water Security program. The course will also be open to other graduate students in SENS and across the university. Program changes and other corrections are shown below.

##### **Master of Water Security (M.W.S.) - Project-based**

Degree Requirements

- GPS 960.0 Introduction to Ethics and Integrity
- GPS 961.0 Ethics and Integrity in Human Research, if research project involves human subjects
- GPS 962.0 Ethics and Integrity in Animal Research, if research project involves animal subjects

Students must complete a total of 36 credit units, as follows:

~~• GEOG 826.3 Fundamentals of Hydrology~~

- ENVS 805.3 Data Analysis and Management
- ENVS 806.3 Field Skills in Environment and Sustainability
- ENVS 815.3 Modelling for Water Security
- ENVS 816.3 Chemicals in ~~Aequatic~~ Aquatic Systems
- ENVS 817.3 Fundamentals of Hydrogeology
- **ENVS 819.3 Catchment Hydrology**
- ENVS 820.3 Water and Human Health and Wellbeing
- ENVS 821.3 Sustainable Water Resources
- ENVS 829.3 River, Lake, and Wetland Science **OR ENVS 824.3 River Science**

- ENVS 990.0 Seminar in Environment and Sustainability
- ENVS 992.6 Project in Environment and Sustainability
- JSGS 870.3 Water Policy in an Age of Uncertainty

### Graduate Certificates

#### Water Resources

Certificate Requirements (9 credit units)

The certificate can be taken as a stand-alone program and/or the courses can be applied to the completion of the Master of Water Security (M.W.S.).

A minimum of 9 credit units, including:

~~• GEOG 826.3 Fundamentals of Hydrology or GEOG 827.3 Principles of Hydrology~~

• ENVS 819.3 Catchment Hydrology

• ENVS 805.3 Data Analysis and Management

• ENVS 815.3 Modelling for Water Security

#### Water Science

Certificate Requirements (9 credit units)

The certificate can be taken as a stand-alone program and/or the courses can be applied to the completion of the Master of Water Security (M.W.S.).

A minimum of 9 credit units, including:

• ENVS 816.3 Chemicals in ~~Aequatic~~-Aquatic Systems

• ENVS 817.3 Fundamentals of Hydrogeology

• ENVS 829.3 River, Lake, and Wetland Science OR ENVS 824.3 River Science

## Course revisions and items for information:

The following course revisions and other items for information have been approved by CGPS:

### Computer Science

#### CMPT 857.3 — 1/2(3L-1.5P) Readings in Bioinformatics

Reviews and discusses recent advances and issues in Bioinformatics through paper presentation by students. ~~Topics will range from computational biology to artificial life and biological computation. Students will be evaluated based on their presentations and participation, as well as a small project.~~

Topics will range from computational biology and genomics to artificial life and biological computation. Students will be evaluated based on their presentations, literature reviews, and participation, as well as an optional small project. **Prerequisite(s):** Open to students in computer science, life sciences, and natural sciences, but subject to permission of the instructors.

### Educational Foundations

#### EFDT 990 (1 & 2) 1 or 2) Seminar

This is a non-credit seminar designed for students in residence. Students and faculty explore issues in the general field of educational foundations using literature that is both challenging and current.

### School of Environment and Sustainability

#### ENVS 815.3 Modelling for Water Security

~~The movement of chemicals in aquatic systems has major implications for water policy and management. A wide variety of man-made contaminants reach aquatic systems. Case studies will investigate the properties that determine where chemicals will go in the environment and whether they will pose risks when they get there.~~

An overview of the fundamentals of hydrologic modelling from our perceptions of the behavior of watershed systems to developing and testing watershed simulation models. Theory and numerical

implementation of model calibration approaches are taught. Includes an introduction to multi-objective optimization and different approaches to sensitivity and uncertainty analysis of hydrologic models.

## Soil Science

Two new field studies courses SLSC 825 and SLSC 826 were approved in the December 2021 University Course Challenge and other SLSC courses were deleted, due to a faculty retirement. The following related minor program revisions should also have been listed with these course changes:

### Master of Science (M.Sc.) - Thesis-based

- GPS 960.0 Introduction to Ethics and Integrity
- GPS 961.0 Ethics and Integrity in Human Research, if research involves human subjects
- GPS 962.0 Ethics and Integrity in Animal Research, if research involves animal subjects
- ~~SLSC 833.2 Field Studies of Saskatchewan Soils~~
- SLSC 825.3 Field Studies and Research Design of Saskatchewan Soil Landscapes
- ~~SLSC 835.2 Physical Chemical and Biological Characterization of Soils~~
- SLSC 826.3 Physical, Chemical, and Biological Characterization of Soils
- ~~SLSC 850.1 Experimental Design in Soil Sciences~~
- SLSC 990.0 Seminar
- SLSC 994.0 Research
- a minimum 9 credit units of electives
- completion of 1 credit unit in data analysis (univariate statistics or multivariate statistics, etc.)

### Transfer from Master's to Ph.D.

- GPS 960.0 Introduction to Ethics and Integrity
- GPS 961.0 Ethics and Integrity in Human Research, if research involves human subjects
- GPS 962.0 Ethics and Integrity in Animal Research, if research involves animal subjects

A minimum of 15 credit units, including:

- ~~SLSC 833.2 Field Studies of Saskatchewan Soils~~
- SLSC 825.3 Field Studies and Research Design of Saskatchewan Soil Landscapes
- ~~SLSC 835.2 Physical Chemical and Biological Characterization of Soils~~
- SLSC 826.3 Physical, Chemical, and Biological Characterization of Soils
- SLSC 850.1 Experimental Design in Soil Sciences
- SLSC 990.0 Seminar
- SLSC 996.0 Research
- completion of 1 credit unit in data analysis (univariate statistics or multivariate statistics, etc.)

### Doctor of Philosophy (Ph.D.)

- GPS 960.0 Introduction to Ethics and Integrity
- GPS 961.0 Ethics and Integrity in Human Research, if research involves human subjects
- GPS 962.0 Ethics and Integrity in Animal Research, if research involves animal subjects
- SLSC 825.3 Field Studies and Research Design of Saskatchewan Soil Landscapes, OR SLSC 850.1 Experimental Design in Soil Sciences
- SLSC 990.0 Seminar
- SLSC 996.0 Research
- a minimum 5 credit units of electives
- qualifying examination
- comprehensive examination

## Veterinary Small Animal Clinical Sciences

### VSAC program list editorial update

The following revisions will be added to the 2022-23 Catalogue to clarify the wording of the Veterinary Small Animal Clinical programs:

- Master of Veterinary Science (M.Vet.Sc.) - Project-based This program is inactive. Please note that no new applications will be accepted at this point.
  - Master of Science (M.Sc.) - Project-based This is a clinical program intended to be completed in three years
  - Master of Science (M.Sc.) - Thesis-based This is a two-year non-clinical program or four-year thesis/residency clinical program
  - Doctor of Philosophy (Ph.D.) - Non-Direct
  - Doctor of Philosophy (Ph.D.) - Direct Entry
  - Transfer from Master's to Ph.D.
  - Internship Certificate programs in Small Animals are also available through this department.
-

## **University Course Challenge, College of Law Submission, January 2022**

The following new course proposals have been approved by the College of Law Faculty Council and are being submitted here for final university approval:

### **New Course Proposals:**

#### **LAW 324.3 Advanced Negotiation and Dispute Resolution in Family Law 1/2 (3L)**

Developments in Saskatchewan suggest that we ought to be expanding our study of Family Dispute Resolution beyond 'negotiation'. In 2019, Dispute Resolution will become mandatory in (all) family law disputes in Saskatchewan, including a spectrum of DR processes. Family lawyers will need to be better equipped than in the past, to advise their clients on the range of process options in these often complex matters. They will also need greater capacity to work in inter-disciplinary and cross-cultural settings, to help resolve family conflict. Finally, new models for the delivery of legal services are emerging more quickly in this field than in any other area of legal practice—raising considerations around professional responsibility, regulation and even professional identity

**Prerequisite:** Negotiation, and one of the Family Law courses [Family Law I, Family Law II, or the advanced Family Law seminar]

**Rationale:** Developments in Saskatchewan suggest that we ought to be expanding our study of Family Dispute Resolution beyond 'negotiation'. In 2019, Dispute Resolution will become mandatory in (all) family law disputes in Saskatchewan, including a spectrum of DR processes. Family lawyers will need to be better equipped than in the past, to advise their clients on the range of process options in these often complex matters. They will also need greater capacity to work in inter-disciplinary and cross-cultural settings, to help resolve family conflict. Finally, new models for the delivery of legal services are emerging more quickly in this field than in any other area of legal practice—raising considerations around professional responsibility, regulation and even professional identity.

#### **LAW 321.3 Transformation in Practice: Reconstructing The Future Lawyer 1/2 (3L)**

This course examines fundamental transformations in lawyering, considering matters that include future needs for flexibility and innovation, changes in business models in the context of various changes, regulatory change, and technological change. The course introduces students to some key literature on these topics and uses a variety of pedagogical methods, including exercises oriented to the use of design thinking principles. The course also includes personal skills development and seeks to facilitate students taking on a mindset of agility and change in the context of ongoing transformational change in the delivery of legal services.

**Prerequisite:** none

**Rationale:** By the start of 2020, criticisms of the justice system and legal service delivery had almost become an industry itself. Commentators and consumers complained that law was too



sluggish in adapting to new technologies and their effects. The increasing pace of social change made the already slow-adapting world of lawyers look increasingly outdated.

While these problems have many causes, some blamed the traditional approach to legal education. The old-style legal training path, which includes law school, articling and mentoring primarily through private sources, is a system which may not meet future needs for flexibility and innovation. It is too simplistic to blame this traditional route for all of the problems of the justice system, but its bias to convention, risk aversion and unwillingness to experiment does not help. On top of this, private law firms were discovering a world where traditional business models and provision of services were increasingly obsolete. Structures like law firm partnerships were ill-equipped to rapidly adapt to serving customers with increased access to information, and who were feeling their needs were not being served. There were many other gaps in providing legal help, either due to cost or other factors.

Then Covid-19 struck. The effects of the pandemic are still being assessed across nearly every economic sector, but one thing is obvious: the post-Coronavirus world will be much different than before. Many consequences are negative, including the destruction of businesses, perhaps industries, which could not adapt to the changes demanded by virus containment measures.

Yet some of these changes will be positive. Some observers see the social distancing aspects of Covid-19 as a necessary stimulus to force many industries, law included, to accept the future.

It is not an exaggeration to say the very idea of lawyering will fundamentally change. The momentum was already there even before the pandemic. Those at the front end of their careers must adapt to an environment which is very different from their predecessors. This entails risk, but it also means enormous opportunities for those who can appreciate the changes, master the tools and seize new prospects.

The educational requirements go beyond law schools. Regulators have been looking for better ways of measuring lawyer competence, and promoting the acquisition of improved skills. Saskatchewan has a unique opportunity, given the close alliance between the province's only law school and the Law Society. Both of these participants can help chart an improved approach to legal education, starting from the time students enter law school

### **LAW 322.3 Child Protection Law and Practice 1/2 (3L)**

Child Protection Law and Practice focuses on child protection law, policy and procedure, with the aim of helping students to develop a legal framework consistent with the theory, values, and skills of practice in this area of law. The course will critically examine a range of contemporary legal, social policy and practice issues that impact the lives of children, caregivers, and their communities. The course examines the quasi-criminal and quasi-family law nature of child protection law in Canada. The main goal of the course is to provide a foundation for child protection law and practice within a social justice framework, by examining a range of issues pertinent to the practice of child protection law. The course format will be interactive

and success for all (including the instructor) will depend on the full participation of each person in critically examining issues and challenges pertinent to child protection law in Canada.

**Prerequisite:** This is an upper year course and only offered to students in years 2 and 3 of the J.D. program (students in year 1 of the J.D. program may not register in this course).

**Rationale:** Child Protection law is a unique area of law, that is both quasi-criminal and quasi-family in nature. Child Protection practice is a prevalent area of practice across Canada that has unique and challenging implications and is often interconnected with criminal and family law matters. Child Protection law is central to major legal developments, including principles of Truth and Reconciliation, specifically Calls to Action 1 through 5. The TRC recognizes child welfare as one of the most critical areas of law requiring reform. Federal Legislation following Bill C-92 to address concerns around Child Protection in Canada, namely, An Act respecting First Nations, Inuit and Métis children, youth and families, has resulted in major changes to this area of law. These recent legal developments significantly impact Indigenous communities, families, children, and lawyers practicing in this area. Child protection law and practice will equip students with the legal skills in relation to family, criminal, Indigenous and constitutional areas of law and civil practice procedure. Given the disproportionate number of Indigenous people and communities impacted by child welfare law, this course is integral to meeting the TRC's Calls to Action in relation to legal education in Canada.

### **LAW 323.3 Law Reform Commission of Saskatchewan Internship**

This internship will give students an opportunity to learn about the process of law reform and to develop their research and writing skills by working with the Commission and its Director on law reform projects in which the Commission is engaged.

**Prerequisite:** none

**Rationale:** This internship will expand the College's experiential learning options by giving a limited number of students an opportunity to engage in intensive research and writing directed towards ongoing projects of the Commission, and to learn about the law reform process by participating in the work of the Commission.

## **January 2022 University Course Challenge Submission, College of Nursing**

The following was approved by the College of Nursing Undergraduate Education Committee on November 25, 2021 and by the College of Nursing Faculty Council on December 15, 2021. It is being submitted to University Course Challenge for approval, as follows:

### **New Course Proposal**

#### **NURS 405.3 Environmental Sustainability in Health Care**

Focuses on an introduction to planetary health and environmental sustainability practices for the health care professional. Emphasis will be on the sustainable development goals and interprofessional action with an integration of topics such as systems thinking, movement building, health equity and social justice. More specialized topics will include interconnection with nature, local conditions (socioeconomic, cultural, and environmental), and sustainability actions in health care settings.

**Note:** This course is hybrid to NURS805 Environmental Sustainability in Health. Students cannot receive credit for both courses.

**Instructor:** Wanda Martin

**Rationale:** The World Health Organization has called climate change the greatest challenge of the 21st Century. While it is a global challenge, Canadians will be at risk from increased heat, allergens and asthma, displacement from wildfire and floods, increases in infectious diseases, and decreases in food availability. Public health systems and services will be pressed for supporting communities in the rapid changes as a result of global warming. Developing community resilience will be essential in an unpredictable future. Strong public health systems are necessary to work with communities but working together to take action is a role for all health professionals. Interdisciplinary work is important when dealing with the broad range of challenges ahead.

## **College of Pharmacy and Nutrition – University Course Challenge, January 2022**

The following curricular changes were approved by the College of Pharmacy & Nutrition (Division of Nutrition and Nutrition Program Advisory Committee) on December 16, 2021 and are being submitted to the University Course Challenge for approval:

### **NEW COURSE**

#### **NUTR 210.3**

Food Fundamentals and Preparation

An introduction to the science of food and its application for home consumption. Topics include food chemistry, food preparation techniques, and factors affecting food consumption.

Prerequisite(s): Nutr 120.3; Basic Food Safety Training Certificate (FoodSafe I or equivalent)

#### **Rationale:**

The most recent BSc Nutrition Accreditation (2015) recommended more foods instruction and this course fulfills this request. This new course also better covers the Integrated Competencies for Dietetic Education and Practice (ICDEP Version 3) (e.g. food skills, food literacy). The new course also includes the topic of food additives, which was the focus of the FABS 323.3 course. *This course will replace FABS 323.3 which is currently required for the BSc Nutrition program.*

### **Bachelor of Science in Nutrition [B.Sc (Nutr.)] (132 credit units)**

#### **Year 1**

#### **33 credit units**

- BMSC 200.3
- BMSC 230.3
- COMM 102.3
- FABS 110.3
- NUTR 120.3
- NUTR 221.3
- NUTR 230.3
- BMSC 207.3 and BMSC 208.3 (formerly PHSI 208.6)
- PLSC 214.3
- Basic food safety training certificate

#### **Unrestricted Electives**

- Choose 3 credit units of unrestricted electives

#### **Year 2**

### **36 credit units**

- BMSC 210.3
- NUTR 305.3
- NUTR 310.3
- NUTR 321.3
- NUTR 322.3
- NUTR 330.3
- NUTR 350.3
- NUTR 365.3
- NUTR 366.3\*
- PATH 205.3
- Successful completion of Speechcraft (Public Speaking Certificate)

\* offered in Spring and Summer terms

### **Unrestricted Electives**

- Choose 6 credit units of unrestricted electives

### **Year 3**

#### **33 credit units**

- COMM 201.3
- ~~FABS 323.3~~ NUTR 210.3
- NUTR 420.3
- NUTR 425.3
- NUTR 430.3
- NUTR 441.3
- NUTR 442.3
- NUTR 450.3
- NUTR 466.3
- Advanced food safety training instruction

### **Unrestricted Electives**

- Choose 6 credit units of unrestricted electives

### **Year 4**

#### **30 credit units**

- NUTR 531.30
- Successful completion of the practicum

## Submission for University Course Challenge SENS Undergraduate Certificate in Sustainability

On 7 January 2022, the School of Environment and Sustainability Faculty Council approved five additional courses to the UCS program

**Motion:** That **POLS 256 (Understanding Political Science Research)** be added as an elective to the Techniques and Tools for Sustainability requirement

**Motion:** That **COMM 347 (Aboriginal Business in Canada)** and **KIN 306 (Introduction to Indigenous Wellness)** be added as electives to the Indigenous Learning requirement.

**Motion:** That **LAW 444 (Environmental Law)** be added to the Communities focus area as a 400-level elective.

**Motion:** That **SLSC 342 (Agronomic Soil Microbiology)** be added as a Natural Resources focus area 300-level elective.

The additions have been added to the program description below in red. They are being proposed here for final approval.

The Certificate in Sustainability is intended to give students theoretical, methodological, strategic, and substantive exposure to sustainability-related concepts and practice. Students will choose either a natural resources, community, or food systems focus for their sustainability studies towards the certificate. The certificate will allow students to engage in problem-based, experiential learning across a broad range of sustainability topics. The program will begin in the student's second year with ENVS 201.

## Certificate in Sustainability (21 credit units)

### Required Courses (6 credit units):

- [ENVS 201.3](#) Foundations of Sustainability
- [ENVS 401.3](#) Sustainability in Action

### Indigenous Learning for Sustainability (3 credit units):

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

- [ANTH 202.3](#) Anthropological Approaches to Aboriginal Research in Canada
- [ANTH 480.3](#) Indigenous Peoples and Mental Health Anthropological and Related Perspectives
- [ARCH 350.3](#) Introduction to Boreal Forest Archaeology
- [AREC 220.3](#) History of Indigenous Agriculture in Canada

- **COMM 347.3 Aboriginal Business in Canada**
- **DRAM 111.3 Practicum I Indigenous Performance Methods**
- **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**
- **HIST 195.3 History Matters Indigenous Perspectives on Canadian History**
- **HIST 266.3 History Wars Issues in Native Newcomer Relations**
- **INDG 107.3 Introduction to Canadian Indigenous Studies**
- **KIN 306.3 Introduction to Indigenous Wellness**
- **LING 253.3 Indigenous Languages of Canada**
- **PLAN 445.3 Planning with Indigenous Communities\***
- **POLS 222.3 Indigenous Governance and Politics**
- INDG 200-Level, 300-Level, 400-level\*

\*These courses may not be used to count as credit for both Indigenous Learning and Area of Focus electives

### Techniques and Tools for Sustainability

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

- **ENVE 381.3 Sustainability and Environmental Assessment**
- **EVSC 203.3 Sampling and Laboratory Analysis**
- **GEOG 290.3 Field Methods and Laboratory Analysis**
- **GEOG 385.3 Analysis of Environmental Management and Policy Making**
- **GEOG 386.3 Environmental Impact Assessment**
- **INDG 210.3 Indigenous Ways of Knowing**
- **POLS 256.3 Understanding Political Science Research**
- **RRM 323.2 Resource Data and Environmental Modeling and RRM 201.1 Geographical Information Systems**
- **SOC 225.3 An Introduction to Survey Research and Data Analysis in Sociology**
- **SOC 232.3 Methods of Social Research**

## Areas of Focus

Students must choose one of the following three areas of focus, in consultation with an advisor:

Please note in each area of focus there are thesis and/or research course options listed. If a student chooses to use one of these courses towards the completion of the certificate it must be demonstrated to the certificate coordinator that the thesis pursued has a focus on sustainability and the theme of the chosen area of focus.

### Natural Resources and Sustainability Focus

Choose one of:

- [BIOL 228.3](#) An Introduction to Ecology and Ecosystems
- [ECON 275.3](#) Economics of Natural Resources
- [ECON 277.3](#) Economics of the Environment
- [ENVE 201.3](#) Principles of Environmental Engineering
- [ENVE 212.2](#) Physical Principles of Plant Biosystems
- [EVSC 210.3](#) Environmental Physics
- [EVSC 220.3](#) Environmental Soil Science
- [GEOG 280.3](#) Environmental Geography
- [PHIL 226.3](#) Environmental Philosophy
- [PHIL 231.3](#) Moral Problems
- [PHIL 236.3](#) Ethics and Technology
- [PLSC 213.3](#) Principles of Plant Ecology
- [TOX 200.3](#) Poisons and Pollutants

Choose one of:

- [ANBI 375.3](#) Animals and the Environment
- [AREC 330.3](#) Land Resource Economics
- [BIOL 373.3](#) Community Ecology
- [CHEM 375.3](#) Environmental Chemistry
- [ECON 376.3](#) Energy Economics
- [EVSC 380.3](#) Grassland Soils and Vegetation
- [GEOG 333.3](#) Global Climate Change
- [GEOG 351.3](#) Northern Environments
- [PLAN 329.3](#) Integrated Water Resource Planning
- [RRM 312.3](#) Natural Resource Management and Indigenous Peoples
- [SLSC 342.3](#) Agronomic Soil Microbiology
- [SLSC 350.3](#) Terrestrial Restoration
- [TOX 301.3](#) Environmental Toxicology

Choose one of:

- [AREC 430.3](#) Natural Resource Economics
- [BIOL 410.3](#) Current Perspectives in Environmental Biology
- [BIOL 412.3](#) Limnology
- [BIOL 470.3](#) Conservation Biology
- [BIOL 475.3](#) Ecological Toxicology
- [ENVE 432.3](#) Land Management and Reclamation
- [EVSC 421.3](#) Contaminated Site Management and Remediation
- [EVSC 430.3](#)
- [EVSC 492.3](#) Research and Term Paper
- [EVSC 494.3](#) Research and Thesis
- [GEOG 490.3](#) Honours Thesis in Hydrology or Geomatics
- [PLSC 413.3](#) Advanced Plant Ecology
- [PLSC 422.3](#) Rangeland Ecology and Management
- [PLSC 423.3](#) Landscape Ecology and Vegetation Management



- [PLSC 425.3](#) Forest Ecology
- [PLSC 492.3](#) Project Thesis in Plant Sciences
- [PLSC 494.6](#) Research Thesis in Plant Sciences
- [PLSC 492.3](#) Project Thesis in Plant Sciences
- [PLSC 494.3](#) Research Thesis in Plant Sciences

## Community and Sustainability Focus

Elective Course (9 credit units):

Choose one of:

- [ANTH 240.3](#) Cultural Landscapes and Environments
- [ANTH 244.3](#) Political Ecology Anthropology and Global Environmental Issues
- [ECON 275.3](#) Economics of Natural Resources
- [ECON 277.3](#) Economics of the Environment
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 280.3](#) Environmental Geography
- [HIST 257.3](#) The Canadian Prairie to 1905
- [HIST 258.3](#) The Canadian Prairies since 1905
- [HIST 263.3](#)
- [HIST 290.3](#) Topics in Environmental History
- [INTS 203.3](#) Cultivating Humanity
- [PHIL 226.3](#) Environmental Philosophy
- [PHIL 231.3](#) Moral Problems
- [PHIL 236.3](#) Ethics and Technology
- [POLS 226.3](#) Canadian Public Policy
- [PLST 210.3](#)
- [SOC 202.3](#) Environmental Sociology
- [SOC 204.3](#) Rural Sociology
- [SOC 206.3](#) Sociology of Communities and Community Development
- [SOC 227.3](#) Critical Issues in Canadian Society
- [WGST 210.3](#) Gendered Perspectives on Current Events

Choose one of:

- [ANTH 329.3](#) Environmental Anthropology
- [ARCH 357.3](#) The Archaeology of Prairie Settlement
- [AREC 330.3](#) Land Resource Economics
- [GEOG 340.3](#)
- [GEOG 352.3](#) Contemporary Issues of the Circumpolar World
- [GEOG 364.3](#) Geography of Environment and Health
- [GEOG 380.3](#) Environmental Geography of the Circumpolar North
- [GEOG 381.3](#) Development in the Canadian North Issues and Challenges
- [PLAN 341.3](#) Urban Planning
- [PLAN 342.3](#)

- [PLAN 346.3](#) Introduction to Urban Design
- [POLS 326.3](#) Comparative Public Policy
- [POLS 328.3](#) Public Policy Analysis
- [SOC 344.3](#) Sociology of Women Gender and Development

Choose one of:

- [ANBI 475.3](#) Field Studies in Arctic Ecosystems and Aboriginal Peoples
- [ANTH 401.3](#) Independent Research in Anthropology
- [AREC 430.3](#) Natural Resource Economics
- [AREC 432.3](#) Rural Development Theory and Applications
- [CHEP 402.3](#) Global Health and Local Communities Issues and Approaches
- [GEOG 464.3](#) Geography of Health
- [GEOG 491.3](#) Honours Thesis in Environment and Planning
- HIST 459.3
- [INDG 451.6](#) Advanced Research Paper
- [INTS 400.3](#) Critical Perspectives on Social Justice and the Common Good
- [LAW 444.3](#) Environmental Law
- [PLAN 441.3](#) Challenges in Urban Development
- [PLAN 445.3](#) Planning with Indigenous Communities
- [PLAN 446.3](#) Advanced Urban Design Studio
- [POLS 403.3](#) Advanced Topics in Public Law and Public Policy
- [POLS 422.3](#) First Nations Governance
- [SOC 409.3](#) Sociology of Development
- [SOC 421.3](#) Interpretive Studies in Health
- [WGST 411.3](#) Situated Transnational Feminisms

## Food Systems and Sustainability Focus

Elective Course (9 credit units):

Choose one of:

- [AREC 251.3](#) Introduction to Agricultural Policy
- [AGRC 211.3](#) Global Food Security
- [PLSC 235.3](#) Urban Agriculture

Choose one of:

- [ANBI 375.3](#) Animals and the Environment
- [ANSC 301.3](#) Animal Production Tour
- [AREC 330.3](#) Land Resource Economics
- [EVSC 380.3](#) Grassland Soils and Vegetation
- [FABS 371.3](#) Food Biotechnology
- [PLSC 345.3](#) Pesticides and Crop Protection

- **RRM 312.3** Natural Resource Management and Indigenous Peoples
- **SLSC 313.3** Environmental Soil Chemistry

Choose one of:

- **AREC 432.3** Rural Development Theory and Applications
- **AREC 451.3** Agricultural Problems and Policies
- **EVSC 492.3** Research and Term Paper
- **EVSC 494.6** Research and Thesis
- **FABS 401.3** Dairy Science and Technology
- FABS 436.3
- FABS 450.3
- **FABS 492.3** Literature Thesis
- **FABS 494.3** Research Thesis
- **GEOG 491.3** Honours Thesis in Environment and Planning
- **PLSC 401.3** Sustainable Crop Production
- **PLSC 413.3** Advanced Plant Ecology
- **PLSC 418.3** Management of Arable Grassland
- **PLSC 422.3** Rangeland Ecology and Management
- **PLSC 492.3** Project Thesis in Plant Sciences
- **PLSC 494.6** Research Thesis in Plant Sciences
- **SLSC 492.3** Research and Term Paper
- **SLSC 494.6** Research and Thesis
- **SOC 402.3** Sociology of Agriculture and Food