



## Academic Programs Committee of Council

### University Course Challenge

**Scheduled posting: November 2023**

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 Engineering  
College of Graduate and Postdoctoral Studies  
College of Law  
College of Pharmacy and Nutrition  
Edwards School of Business

**Approval:**      Date of circulation: November 16, 2023  
                            Date of effective approval if no challenge received: November 30, 2023

**Next scheduled posting:**

The next scheduled posting will be December 14, 2023, with a submission deadline of **December 12, 2023**. 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, Submission to University Course Challenge November 2023

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

Contact: Amie Shirkie ([amie.shirkie@usask.ca](mailto:amie.shirkie@usask.ca))

### Course Changes:

#### **ANBI 420.3: Comparative Animal Endocrinology**

Examines the fundamentals of animal endocrine systems. Similarities and differences in endocrine function between different vertebrate groups will be discussed. Topics include anatomy and physiology of hormones and glands, mechanisms of hormone action, hormonal regulation of various physiological processes in animal systems, endocrine manipulation and monitoring, endocrine disruption and endocrine methodologies.

**Weekly hours:** 3 Lecture hours

**Prerequisite(s):** ~~BIOL 224.3 and 60 credit units, or permission of the instructor. Successful completion of 60 credit units, including BIOL 224; or permission of the instructor.~~

#### **ANBI 470.3: Applied Animal Biotechnology**

This course examines the application of biological technologies to improve the health or productivity of food and companion animals. Topics include reproductive technologies; transgenic techniques; molecular genetics in animal selection; use of recombinant proteins for growth, lactation and reproduction; functional feeds including alternatives to antibiotics and a review of immune function including vaccine technologies. In addition, regulatory, ethical and safety aspects of technologies will be considered.

**Weekly hours:** 3 Lecture hours

**Prerequisite(s):** ~~ANSC 313 and one of VBMS 325 or BIOL 317. Successful completion of 75 credit units; ANSC 313 and VBMS 325 are recommended.~~

#### **ANSC 315.3: Animal and Poultry Nutrition**

Lectures cover the principles of nutrition; the processes of digestion and utilization of foods and feeds; and the character, sources, function and requirements of the various nutrients. Laboratory work includes practical nutritional exercises.

**Weekly hours:** 3 Lecture hours and 2 Practicum/Lab hours

**Prerequisite(s):** ~~BMSC 200 and BMSC 230; or permission of the instructor.~~

**Prerequisite(s) or Corequisite(s):** BMSC 230.

**Note:** There are non-refundable costs in addition to tuition and fees.

#### **ANSC 316.3: Feed Technology**

This course explores the nutritional and functional properties of feed ingredients, diet formulation, feed processing technologies, regulations, quality control, feed mill management and manufacture of specialty diets. Laboratory work includes practical exercises with feed production and diet formulation. There are additional non-refundable costs in addition to tuition fees.

**Weekly hours:** 3 Lecture hours and 2 Practicum/Lab hours

**Prerequisite(s):** ~~ANSC 212.3 and BMSC 230.3~~

**Prerequisite(s) or Corequisite(s):** BMSC 230.

**Note:** There are non-refundable costs in addition to tuition and fees.

### **PLSC 402.3: Advanced Precision Agriculture**

This course is the capstone course in the Precision Agriculture Certificate. It will allow students to integrate knowledge from their specific subdiscipline with real-world precision agriculture solutions to increase the sustainability and production of crops. Students will learn advanced concepts in precision agriculture and how to analyze spatial and temporal variability in crop production. They will utilize a variety of data, ranging from satellite imagery, soil topography and soil properties, to understand and develop variable rate prescriptions for crop inputs. Finally, students will apply this knowledge in diverse teams that utilize discipline-specific knowledge to solve real-world precision agriculture problems.

**Weekly hours:** 3 Lecture hours and 2 Practicum/Lab hours

**Prerequisite(s):** ~~PLSC 202.3. One of PLSC 214.3, STAT 245.3 or GE 210.3 is strongly recommended.~~

**Prerequisite(s) or Corequisite(s):** ~~GEOG 222.3~~

**Prerequisite(s):** PLSC 202.3 and GEOG 222. One of PLSC 214.3, STAT 245.3 or GE 210.3 is strongly recommended.

**Rationale:** The changes to the course prerequisites above reflect the academic preparation needed for students to succeed in these courses and are also designed to alleviate issues relating to course sequencing and reduce the number of prerequisite overrides requested by students.

### **Program Revisions:**

#### **Agricultural Biology**

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

Admission to Honours is restricted to students having an approved Honours program, a recommendation from the supervising department, and a Cumulative Weighted Average of 70% or better on a minimum of 60 credit units in B.S.A. credited courses at the time of application. Students must officially apply for admission to an Honours program through the office of the Dean of Agriculture and Bioresources before the start of Year Four at the latest.

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

Completion of a B.S.A. minor (18 credit units) is required with a major in Agricultural Biology.

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

- [AGRC 110.3](#) Scientific Literacy and Communication for the Agricultural Sciences

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

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

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

#### **Humanities**

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

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

### **Social Sciences**

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

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

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

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

### **Fine Arts**

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

## Year 2 (30 credit units)

- [BIOL 222.3](#) The Living Plant
- [BIOL 224.3](#) Animal Body Systems
- [BIOL 226.3](#) Genes to Genomics
- [BMSC 200.3](#) Biomolecules
- [FABS 212.3](#) Agrifood and Resources Microbiology or [BMSC 210.3](#) Microbiology
- [MATH 104.3](#) Elementary Calculus, [MATH 110.3](#) Calculus I or [MATH 125.3](#) Mathematics for the Life Sciences
- ~~[STAT 103.3](#) Elementary Probability~~ or [PHYS 115.3](#) Physics and the Universe

Note: Credit will not be granted for [STAT 103.3](#) Elementary Probability if it is taken concurrently with or after [PLSC 214.3](#) Statistical Methods. If you have already completed [PLSC 214.3](#) Statistical Methods, you must take [PHYS 115.3](#) Physics and the Universe.3 instead of [STAT 103.3](#) Elementary Probability.

### 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 Dislocation
- ANTH 421.3
- [CPSJ 203.3](#) Cultivating Humanity
- [ENG 111.3](#) Literature and Composition Reading Poetry
- [ENG 112.3](#) Literature and Composition Reading Drama
- [ENG 113.3](#) Literature and Composition Reading Narrative
- [ENG 114.3](#) Literature and Composition Reading Culture
- [ENG 120.3](#) Introduction to Creative Writing
- [HIST 115.3](#) History Matters Ideas and Culture
- [HIST 125.3](#) History Matters Indigenous Colonial and Post Colonial Histories
- [HIST 135.3](#) History Matters Gender Sex and Society
- [HIST 145.3](#) History Matters War Violence and Politics
- [HIST 155.3](#) History Matters Science and Environment
- [HIST 165.3](#) History Matters Health and Society
- [HIST 175.3](#) History Matters Identities and Communities in Transition

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

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

- [BIOC — 200-Level, 300-Level, 400-Level](#)
- [BMSC 230.3](#) Metabolism
- [BMSC 240.3](#) Laboratory Techniques

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

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

- [ANBI 470.3](#) Applied Animal Biotechnology

- [ANSC 313.3](#) Animal Breeding and Genetics
- [ANSC 315.3](#) Animal and Poultry Nutrition
- [BIOL — 200-Level, 300-Level, 400-Level](#)
- [FABS — 200-Level, 300-Level, 400-Level](#)
- [PLSC — 200-Level, 300-Level, 400-Level](#)
- [SLSC 232.3](#) Soil Genesis and Classification
- [SLSC 240.3](#) Agricultural Soil Science
- [SLSC 312.3](#) Soil Fertility and Fertilizers
- [SLSC 444.3](#) Soil Ecology
- [SLSC 460.3](#) Forest Soils
- [VBMS 314.3](#) Comparative Anatomy of Domestic Animals
- [VBMS 324.3](#) Animal Physiology I
- [VBMS 325.3](#) Animal Physiology II
- [VLAC 411.3](#) Diseases of Livestock
- [VTPA 412.3](#) Diseases of Poultry
- Other courses as approved by the program advisor

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

- [BIOL 228.3](#) An Introduction to Ecology and Ecosystems or [PLSC 213.3](#) Principles of Plant Ecology ([BIOL 228.3](#) An Introduction to Ecology and Ecosystems is recommended for the Honours program in Agricultural Biology)
- [BMSC 220.3](#) Cell Biology or [BIOL 317.3](#) Fundamentals of Animal Physiology or [BIOL 331.3](#) Plant Physiology
- [PLSC 214.3](#) Statistical Methods or [STAT 245.3](#) Introduction to Statistical Methods

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

- [BIOL 361.3](#) Vertebrate Biology
- [BIOL 365.3](#) Insect Diversity and Evolution
- [BIOL 436.3](#) Animal Parasitology
- [BIOL 451.3](#) Ichthyology
- [BIOL 455.3](#) Mammal Diversity and Evolution
- [BIOL 458.3](#) Ornithology



- [BIOL 472.3](#) Animal Behaviour

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

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

- [ANSC 494.6](#) Research Thesis in Animal Science
- [EVSC 494.6](#) Research and Thesis
- [FABS 494.6](#) Research Thesis
- [PLSC 494.6](#) Research Thesis in Plant Sciences
- [SLSC 494.6](#) Research and Thesis

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

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

- [BIOL 323.3](#) Plant Systematics and Evolution
- [BIOL 324.3](#) Plants and Human Affairs
- [BIOL 342.3](#) Fungi Environment and People
- [BIOL 345.3](#) Introductory Plant Pathology
- [BIOL 365.3](#) Insect Diversity and Evolution
- [BIOL 420.3](#) Molecular Biology of Plants
- [BIOL 421.3](#) Functional Genomics
- [BIOL 436.3](#) Animal Parasitology
- [BIOL 470.3](#) Conservation Biology
- [BIOL 475.3](#) Ecological Toxicology

**Restricted Electives (24 credit units)**

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

- [ANBI 470.3](#) Applied Animal Biotechnology
- [ANSC 313.3](#) Animal Breeding and Genetics

- [ANSC 315.3](#) Animal and Poultry Nutrition
- [BIOL — 200-Level, 300-Level, 400-Level](#)
- [FABS — 200-Level, 300-Level, 400-Level](#)
- [PLSC — 200-Level, 300-Level, 400-Level](#)
- [SLSC 232.3](#) Soil Genesis and Classification
- [SLSC 240.3](#) Agricultural Soil Science
- [SLSC 312.3](#) Soil Fertility and Fertilizers
- [SLSC 444.3](#) Soil Ecology
- [SLSC 460.3](#) Forest Soils
- [VBMS 314.3](#) Comparative Anatomy of Domestic Animals
- [VBMS 324.3](#) Animal Physiology I
- [VBMS 325.3](#) Animal Physiology II
- [VLAC 411.3](#) Diseases of Livestock
- [VTPA 412.3](#) Diseases of Poultry
- other courses as approved by the program advisor

### **Open Electives**

Choose 9 credit units of open electives

### **Agricultural Biology**

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

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

Completion of a B.S.A. minor is required with a major in Agricultural Biology.

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

- [AGRC 110.3](#) Scientific Literacy and Communication for the Agricultural Sciences
- [AGRC 111.3](#) Introduction to Plant and Soil Sciences
- [AGRC 112.3](#) Animal Agriculture and Food Science
- [AGRC 113.3](#) Introduction to Agri Food Economics
- [AREC 220.3](#) History of Indigenous Agriculture in Canada or [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [BIOL 120.3](#) The Nature of Life

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

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

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

## Social Sciences

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

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

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

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

## Fine Arts

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

## Year 2 (30 credit units)

- [BIOL 222.3](#) The Living Plant
- [BIOL 224.3](#) Animal Body Systems
- [BIOL 226.3](#) Genes to Genomics
- [BMSC 200.3](#) Biomolecules

- [FABS 212.3](#) Agrifood and Resources Microbiology or [BMSC 210.3](#) Microbiology
- [MATH 104.3](#) Elementary Calculus, [MATH 110.3](#) Calculus I or [MATH 125.3](#) Mathematics for the Life Sciences
- ~~[STAT 103.3](#) Elementary Probability or~~ [PHYS 115.3](#) Physics and the Universe

Note: Credit will not be granted for [STAT 103.3](#) Elementary Probability if it is taken concurrently with or after [PLSC 214.3](#) Statistical Methods. If you have already completed [PLSC 214.3](#) Statistical Methods, you must take [PHYS 115.3](#) Physics and the Universe instead of [STAT 103.3](#) Elementary Probability.

**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 Dislocation
- ANTH 421.3
- [CPSJ 203.3](#) Cultivating Humanity
- [ENG 111.3](#) Literature and Composition Reading Poetry
- [ENG 112.3](#) Literature and Composition Reading Drama
- [ENG 113.3](#) Literature and Composition Reading Narrative
- [ENG 114.3](#) Literature and Composition Reading Culture
- [ENG 120.3](#) Introduction to Creative Writing
- [HIST 115.3](#) History Matters Ideas and Culture
- [HIST 125.3](#) History Matters Indigenous Colonial and Post Colonial Histories
- [HIST 135.3](#) History Matters Gender Sex and Society
- [HIST 145.3](#) History Matters War Violence and Politics
- [HIST 155.3](#) History Matters Science and Environment
- [HIST 165.3](#) History Matters Health and Society
- [HIST 175.3](#) History Matters Identities and Communities in Transition
- [HIST 185.3](#) History Matters Conflict Law Politics and the State
- [HIST 193.3](#) History Matters Topics in Canadian History
- [HIST 194.3](#) History Matters Topics in European History
- [PHIL 120.3](#) Knowledge Mind and Existence
- [PHIL 121.3](#) Introduction to World Philosophies

- [PHIL 133.3](#) Introduction to Ethics and Values
- [PHIL 208.3](#) Ancient Philosophy Presocratics to Plato
- [PHIL 233.3](#) Ethical Theory
- [POLS 245.3](#) Politics of Africa
- [POLS 323.3](#) First Nations Policies and Programs
- [POLS 328.3](#) Public Policy Analysis
- [POLS 333.3](#) Theory and Politics of Law
- [POLS 336.3](#) Justice and Democracy
- [POLS 422.3](#) Indigenous Governance and Self Determined Sustainable Development
- [POLS 461.3](#) Topics in Global Politics
- [PSY 323.3](#) Qualitative Study of Lives and Social Practices
- [PSY 355.3](#) Research in Advanced Cognitive Science
- [RLST 280.3](#) Methodologies and Approaches to Study of Religions
- [RLST 362.3](#) Monsters and Mischief Makers

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

- [BIOC — 200-Level, 300-Level, 400-Level](#)
- [BMSC 230.3](#) Metabolism
- [BMSC 240.3](#) Laboratory Techniques

**Choose 3 credit units of Restricted Electives**

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

- [ANBI 470.3](#) Applied Animal Biotechnology
- [ANSC 313.3](#) Animal Breeding and Genetics
- [ANSC 315.3](#) Animal and Poultry Nutrition
- [BIOL — 200-Level, 300-Level, 400-Level](#)
- [FABS — 200-Level, 300-Level, 400-Level](#)
- [PLSC — 200-Level, 300-Level, 400-Level](#)

- [SLSC 232.3](#) Soil Genesis and Classification
- [SLSC 240.3](#) Agricultural Soil Science
- [SLSC 312.3](#) Soil Fertility and Fertilizers
- [SLSC 444.3](#) Soil Ecology
- [SLSC 460.3](#) Forest Soils
- [VBMS 314.3](#) Comparative Anatomy of Domestic Animals
- [VBMS 324.3](#) Animal Physiology I
- [VBMS 325.3](#) Animal Physiology II
- [VLAC 411.3](#) Diseases of Livestock
- [VTPA 412.3](#) Diseases of Poultry
- Other courses as approved by the program advisor

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

- [BIOL 228.3](#) An Introduction to Ecology and Ecosystems or [PLSC 213.3](#) Principles of Plant Ecology ([BIOL 228.3](#) An Introduction to Ecology and Ecosystems is recommended for the Honours program in Agricultural Biology)
- [BMSC 220.3](#) Cell Biology or [BIOL 317.3](#) Fundamentals of Animal Physiology or [BIOL 331.3](#) Plant Physiology
- [PLSC 214.3](#) Statistical Methods or [STAT 245.3](#) Introduction to Statistical Methods

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

- [BIOL 361.3](#) Vertebrate Biology
- [BIOL 365.3](#) Insect Diversity and Evolution
- [BIOL 436.3](#) Animal Parasitology
- [BIOL 451.3](#) Ichthyology
- [BIOL 455.3](#) Mammal Diversity and Evolution
- [BIOL 458.3](#) Ornithology
- [BIOL 472.3](#) Animal Behaviour

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

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

- [ANSC 492.3](#) Thesis in Animal Science
- [EVSC 492.3](#) Research and Term Paper

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

### Restricted Electives (30 credit units)

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

- [ANBI 470.3](#) Applied Animal Biotechnology
- [ANSC 313.3](#) Animal Breeding and Genetics
- [ANSC 315.3](#) Animal and Poultry Nutrition
- [BIOL — 200-Level, 300-Level, 400-Level](#)
- [FABS — 200-Level, 300-Level, 400-Level](#)
- [PLSC — 200-Level, 300-Level, 400-Level](#)
- [SLSC 232.3](#) Soil Genesis and Classification
- [SLSC 240.3](#) Agricultural Soil Science
- [SLSC 312.3](#) Soil Fertility and Fertilizers
- [SLSC 444.3](#) Soil Ecology
- [SLSC 460.3](#) Forest Soils
- [VBMS 314.3](#) Comparative Anatomy of Domestic Animals
- [VBMS 324.3](#) Animal Physiology I
- [VBMS 325.3](#) Animal Physiology II
- [VLAC 411.3](#) Diseases of Livestock
- [VTPA 412.3](#) Diseases of Poultry
- other courses as approved by the program advisor

### Open Electives

Choose 15 credit units of open electives

**Rationale:** STAT 103.3 is being removed from the B.S.A. Agricultural Biology and the B.S.A. Honours Agricultural Biology due to students receiving adequate academic preparation by taking PLSC 214.3. Since the majority of students complete PLSC 214.3 prior to attempting to register in STAT 103.3, this



change will alleviate resultant confusion, as students who have completed PLSC 214.3 cannot receive credit for STAT 103.3.

## **Agronomy**

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

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

- [AGRC 110.3](#) Scientific Literacy and Communication for the Agricultural Sciences
- [AGRC 111.3](#) Introduction to Plant and Soil Sciences
- [AGRC 112.3](#) Animal Agriculture and Food Science
- [AGRC 113.3](#) Introduction to Agri Food Economics
- [AREC 220.3](#) History of Indigenous Agriculture in Canada or [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [BIOL 120.3](#) The Nature of Life
- [BIOL 121.3](#) The Diversity of Life
- [CHEM 112.3](#) General Chemistry I Structure Bonding and Properties of Materials
- [MATH 104.3](#) Elementary Calculus, [MATH 110.3](#) Calculus I, or [MATH 125.3](#) Mathematics for the Life Sciences

### **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 Science**

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

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

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

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

### Fine Arts

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

### Year 2 (30 credit units)

- [BIOL 222.3](#) The Living Plant
- [BIOL 226.3](#) Genes to Genomics
- [CHEM 250.3](#) Introduction to Organic Chemistry
- One of [PLSC 213.3](#) Principles of Plant Ecology or [BIOL 228.3](#) An Introduction to Ecology and Ecosystems ([PLSC 213.3](#) Principles of Plant Ecology is preferred); or [PLSC 220.3](#) Fundamentals of Horticulture
- [PLSC 214.3](#) Statistical Methods or [STAT 245.3](#) Introduction to Statistical Methods
- [PLSC 222.3](#) Introduction to Field Crops
- [PLSC 260.3](#) Principles of Plant Protection
- [SLSC 240.3](#) Agricultural Soil Science
- Choose 3 credit units of open electives

### 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 Dislocation
- ANTH 421.3
- [CPSJ 203.3](#) Cultivating Humanity
- [ENG 111.3](#) Literature and Composition Reading Poetry
- [ENG 112.3](#) Literature and Composition Reading Drama
- [ENG 113.3](#) Literature and Composition Reading Narrative
- [ENG 114.3](#) Literature and Composition Reading Culture
- [ENG 120.3](#) Introduction to Creative Writing

- [HIST 115.3](#) History Matters Ideas and Culture
- [HIST 125.3](#) History Matters Indigenous Colonial and Post Colonial Histories
- [HIST 135.3](#) History Matters Gender Sex and Society
- [HIST 145.3](#) History Matters War Violence and Politics
- [HIST 155.3](#) History Matters Science and Environment
- [HIST 165.3](#) History Matters Health and Society
- [HIST 175.3](#) History Matters Identities and Communities in Transition
- [HIST 185.3](#) History Matters Conflict Law Politics and the State
- [HIST 193.3](#) History Matters Topics in Canadian History
- [HIST 194.3](#) History Matters Topics in European History
- [PHIL 120.3](#) Knowledge Mind and Existence
- [PHIL 121.3](#) Introduction to World Philosophies
- [PHIL 133.3](#) Introduction to Ethics and Values
- [PHIL 208.3](#) Ancient Philosophy Presocratics to Plato
- [PHIL 233.3](#) Ethical Theory
- [POLS 245.3](#) Politics of Africa
- [POLS 323.3](#) First Nations Policies and Programs
- [POLS 328.3](#) Public Policy Analysis
- [POLS 333.3](#) Theory and Politics of Law
- [POLS 336.3](#) Justice and Democracy
- [POLS 422.3](#) Indigenous Governance and Self Determined Sustainable Development
- [POLS 461.3](#) Topics in Global Politics
- [PSY 323.3](#) Qualitative Study of Lives and Social Practices
- [PSY 355.3](#) Research in Advanced Cognitive Science
- [RLST 280.3](#) Methodologies and Approaches to Study of Religions
- [RLST 362.3](#) Monsters and Mischief Makers

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

PLSC 317 or BIOL 331 and SLSC 312 must be taken in Year 3; PLSC 401 and PLSC 417 must be taken in Year 4.

- [AREC 222.3](#) Introduction to Farm Business Management
- [AREC 343.3](#) Grain and Livestock Marketing
- [PLSC 317.3](#) Plant Metabolism or [BIOL 331.3](#) Plant Physiology
- [PLSC 401.3](#) Sustainable Crop Production
- [PLSC 417.3](#) Crop Physiology
- [PLSC 492.3](#) Project Thesis in Plant Sciences or [PLSC 494.6](#) Research Thesis in Plant Sciences (3 credit units count as restricted electives)
- [SLSC 312.3](#) Soil Fertility and Fertilizers

**Choose 9 credit units from the following Crop Protection courses:**

- [BIOL 345.3](#) Introductory Plant Pathology
- [PLSC 234.3](#) Weed Control in Organic Agriculture
- [PLSC 335.3](#) Field Crop Disease Management
- [PLSC 340.3](#) Weed Biology and Ecology
- [PLSC 345.3](#) Pesticides and Crop Protection
- [PLSC 427.3](#) Ecology and Management of Invasive Plants
- [PLSC 450.3](#) Applied Entomology

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

- [PLSC 202.3](#) Introductory Precision Agriculture
- [PLSC 333.3](#) Tropical Crops of the World
- [PLSC 375.3](#) Current Topics in Agronomy
- [PLSC 382.3](#) Introduction to Field Scouting
- [PLSC 402.3](#) Advanced Precision Agriculture
- [PLSC 418.3](#) Management of Arable Grassland
- [PLSC 420.3](#) Grain Chemistry and Technology
- [PLSC 422.3](#) Rangeland Ecology and Management
- [PLSC 440.3](#) Climate Smart Agriculture
- [PLSC 441.3](#) Fruit Science
- [PLSC 451.3](#) Vegetable Agronomy
- [PLSC 475.3](#) Insect Ecology

### Restricted Electives (18 credit units)

Students can choose courses for completion of a minor (not including Field Crop Production) or choose courses selected from the following list: [AGRC 211.3](#) Global Food Security, [AGRC 445.3](#) Experiential Learning in the Workplace, [ANBI 375.3](#) Animals and the Environment, [BIOL 365.3](#) Insect Diversity and Evolution, ~~[BLE 205.3](#) Agricultural Machinery Management~~, [AREC 254.3](#) Agribusiness Taxation, [AREC 346.3](#) Principles of Selling, [AREC 347.3](#) Agribusiness Marketing Management, [FABS 211.3](#) Introductory Bioproduct Science, [GEOG 222.3](#) Geomatics, [RCM 200.3](#) Effective Professional Communication, [RRM 215.3](#) Identification of Saskatchewan Plants and Soils, any 200-level or above course in PLSC, EVSC or SLSC not required for the major, or courses approved by an advisor.

### Open Electives

- Choose 6 credit units of open electives

**Rationale:** BLE 205.3 is being removed from the restricted electives for the B.S.A. Agronomy as this course will not be offered in the future, due to the retirement of the faculty member who instructed this course.

### Applied Plant Ecology

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

#### Year 1 (30 credit units)

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

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

#### Humanities

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

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

### **Social Sciences**

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

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

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

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

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

#### Fine Arts

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

#### Year 2 (30 credit units)

- [BIOL 222.3](#) The Living Plant
- [BIOL 226.3](#) Genes to Genomics
- [EVSC 220.3](#) Environmental Soil Science or [SLSC 240.3](#) Agricultural Soil Science
- [MATH 104.3](#) Elementary Calculus or [MATH 110.3](#) Calculus I or [MATH 125.3](#) Mathematics for the Life Sciences
- [PLSC 213.3](#) Principles of Plant Ecology or [BIOL 228.3](#) An Introduction to Ecology and Ecosystems ([PLSC 213.3](#) Principles of Plant Ecology is preferred)
- [PLSC 220.3](#) Fundamentals of Horticulture or [PLSC 222.3](#) Introduction to Field Crops
- [PLSC 260.3](#) Principles of Plant Protection
- [RRM 215.3](#) Identification of Saskatchewan Plants and Soils
- Choose 3 credit units of open electives

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

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

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

- [BIOL 323.3](#) Plant Systematics and Evolution
- [EVSC 380.3](#) Grassland Soils and Vegetation
- [PLSC 214.3](#) Statistical Methods or [STAT 245.3](#) Introduction to Statistical Methods
- [PLSC 317.3](#) Plant Metabolism
- [PLSC 413.3](#) Advanced Plant Ecology
- [PLSC 418.3](#) Management of Arable Grassland
- [PLSC 422.3](#) Rangeland Ecology and Management
- [PLSC 425.3](#) Forest Ecology
- [PLSC 427.3](#) Ecology and Management of Invasive Plants
- [PLSC 492.3](#) Project Thesis in Plant Sciences or [PLSC 494.6](#) Research Thesis in Plant Sciences (3 credit units count as restricted elective)

**Choose 21 credit units of restricted electives from the following:**

Students can choose courses for a minor or choose from the following selection of courses in consultation with an advisor.

- [AGRC 445.3](#) Experiential Learning in the Workplace
- [ANBI 375.3](#) Animals and the Environment
- [ANBI 475.3](#) Field Studies in Arctic Ecosystems and Indigenous Peoples
- [BIOL 331.3](#) Plant Physiology
- [BIOL 342.3](#) Fungi Environment and People
- [BIOL 373.3](#) Community Ecology
- [BIOL 470.3](#) Conservation Biology
- [BIOL 475.3](#) Ecological Toxicology

- [GEOG 222.3](#) Geomatics
- [GEOG 322.3](#) Geographic Information Systems
- [GEOG 323.3](#) Remote Sensing
- [GEOG 351.3](#) Northern Environments
- [GEOG 380.3](#) Environmental Geography of the Circumpolar North
- [PLSC 335.3](#) Field Crop Disease Management
- [PLSC 340.3](#) Weed Biology and Ecology
- [PLSC 345.3](#) Pesticides and Crop Protection
- [PLSC 440.3](#) Climate Smart Agriculture
- [PLSC 450.3](#) Applied Entomology
- [PLSC 475.3](#) Insect Ecology
- [PLSC 494.6](#) Research Thesis in Plant Sciences
- [SLSC 232.3](#) Soil Genesis and Classification
- [SLSC 350.3](#) Terrestrial Restoration
- [SLSC 444.3](#) Soil Ecology
- [SLSC 460.3](#) Forest Soils
- [SLSC 480.3](#) Soils and Boreal Landscapes

#### **Open Electives**

- Choose 9 credit units open electives

**Rationale:** BIOL 475.3 and PLSC 475.3 are being added to the list of restricted elective options for the B.S.A. Applied Plant Ecology to expand the options for study in the areas of ecological toxicology and insect ecology.

## University Course Challenge – November 2023

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))

### Archaeology and Anthropology

#### **New course(s):**

##### **ANTH 440.3 Archaeology of Food**

1/2 (3S) This course examines the role food has played in creating and shaping ancient societies. It focuses on understanding how our bodies and different types of archaeological materials, including artefacts and plant and animal remains, can be used to reconstruct ancient diets and food practices. It also explores social aspects of how ancient food choices relate to identity, gender, economics, power, status, trade, and their roles in daily lives and ceremonies. This course integrates various case studies ranging from analyses of the diets of Neanderthals, Holocene hunter-gatherers, and early farmers to the impacts of ancient food on globalization, sustainability, modern cuisines, daily meals, and other food practices.

Prerequisite(s): ANTH 250.3 or ANTH 251.3; and at least one 300-level ANTH or ARCH course.

Note: Students with credit for ARCH 498.3 Archaeology of Food may not take this course for credit.

Instructor(s): Tatiana Nomokonova

Rationale: This course will integrate a variety of scientific and anthropological approaches to studies of food and will highlight the nature of multidisciplinary research efforts used to address this topic, especially the social aspects of food origins, consumption, sharing, and distribution. Topics covered in the course are aligned with many of the university's priority areas, including international collaboration, interdisciplinary studies, and food security. Further, the course addresses many features of Indigenous food practices across the globe. This course is set at the 400-level as students need to be familiar with basics archaeological scientific methods to be able to participate in discussions. They also need to have experience with conducting independent analyses and writing original research papers.

### College

#### **Minor program revisions**

##### **All Degree Programs**

Add LING 114.3 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, many 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](#) Anthropology and Indigenous Peoples in Canada
- ANTH 480.3
- [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
- [ENG 338.3](#) Contemporary North American Indigenous Literatures
- [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 (may only be used if taken in 2022-23 or later)
- HIST 266.3
- [HIST 315.3](#) Indigenous Health History
- [HIST 316.3](#) History of the Metis in Twentieth Century Prairie Canada
- [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [LING 114.3](#) Indigenous Languages and Stories Introduction to the Structure of Language
- [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: LING 114 has been approved for inclusion in the Indigenous Learning list by the Indigenous Course Committee, a standing committee of the Arts and Science Faculty Council. More choice on the list will benefit students, who will have more flexibility to select a class which fits their schedule, and aligns with their areas of interest.

## Computer Science

### **Course deletion(s):**

#### **CMPT 100.3 Introduction to Computing**

Rationale: CMPT140 (*Introduction to Creative Computing*) provides a more modern and useful introduction to computation. It employs a more modern language, Python, which opens up a broader set of pathways for the student.

#### **CMPT 350.3 Web Programming**

#### **CMPT 355.3 Theory and Application of Databases**

In 2019-20 CMPT 353 was introduced, which combined content from CMPT 350 and 355. Students in the older Catalogue years have now been allowed to complete their programs and the older courses can be closed.

#### **CMPT 408.3 Ethics and Computer Science**

During the program reaccreditation in 2017 the reviewers recommended a separate ethics class given by professional ethicists. In cooperation with the Department of Philosophy PHIL 232.3 (Professional Ethics in Computer Science) was constructed. The last offering of CMPT 408 was in 201909.

## History

### **Minor program revisions**

#### **Bachelor of Arts Honours, Double Honours, Four-year and Three-year and Minor in English**

Add IS 406.3 (proposed concurrently) as a course that can be used in the major and minor requirements.

#### **Bachelor of Arts Honours (B.A. Honours) - History**

A4 Major Requirement (57 credit units)

...

Choose **30 credit units** from the following:

Students may count up to a total of 12 credit units of senior CLAS courses, 400-level GRK, and 400-level LATN in partial fulfillment of the Major Requirement.

No more than 60 credit units of HIST courses may be taken to fulfill the degree requirements.

- HIST — 200-Level, 300-Level, 400-Level
- CLAS — 200-Level, 300-Level, 400-Level
- CMRS — 100-Level, 200-Level, 300-Level, 400-Level
- GRK — 400-Level
- LATN — 400-Level
- **IS 406.3 Confronting Climate Change**
- NURS 410.3 History of Health Systems Public Health and Nursing in Canada

### Bachelor of Arts Four-year (B.A. Four-year) - History

A4 Major Requirement (45 credit units)

...

Choose **24 credit units** from the following:

Students may count up to a total of 12 credit units of senior CLAS courses, 400-level GRK, and 400-level LATN in partial fulfillment of the Major Requirement.

- 200-Level , 300-Level or 400-Level HIST Courses
- 200-Level , 300-Level or 400-Level CLAS Courses
- 100-Level , 200-Level , 300-Level or 400-Level CMRS Courses
- 400-Level GRK Courses
- 400-Level LATN Courses
- **IS 406.3 Confronting Climate Change**
- NURS 410.3 History of Health Systems Public Health and Nursing in Canada

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

A4 Major Requirement (33 credit units)

...

Choose **18 credit units** from the following:

Students may count up to a total of 9 credit units of senior CLAS courses, 400-level GRK, and 400-level LATN in partial fulfillment of the Major Requirement.

- HIST — 200-Level, 300-Level, 400-Level
- CLAS — 200-Level, 300-Level, 400-Level
- CMRS — 100-Level, 200-Level, 300-Level, 400-Level
- GRK — 400-Level
- LATN — 400-Level

- **IS 406.3 Confronting Climate Change**
- **NURS 410.3** History of Health Systems Public Health and Nursing in Canada

### **Bachelor of Arts Double Honours - History - Major 1**

#### **A4 Major Requirement (39 credit units)**

...

Choose **27 credit units** from the following, such that at least 3 credit units are at the 300-level and 6 credit units are at the 400-level:

Students may count up to a total of 12 credit units of senior CLAS courses, 400-level GRK, and 400-level LATN in partial fulfillment of the Major Requirement. NURS 410 will not be counted toward the 400-level credit units needed in this requirement.

- **HIST — 200-Level, 300-Level, 400-Level**
- **CLAS — 200-Level, 300-Level, 400-Level**
- **CMRS — 100-Level, 200-Level, 300-Level, 400-Level**
- **GRK — 400-Level**
- **LATN — 400-Level**
- **IS 406.3 Confronting Climate Change**
- **NURS 410.3** History of Health Systems Public Health and Nursing in Canada

### **Double Honours - History - Major 2**

#### **Requirements (39 credit units)**

...

Choose **27 credit units** from the following, such that at least 3 credit units are at the 300-level and 6 credit units are at the 400-level:

Students may count up to a total of 12 credit units of senior CLAS courses, 400-level GRK, and 400-level LATN in partial fulfillment of the Major Requirement. NURS 410 will not be counted toward the 400-level credit units needed in this requirement.

- **HIST — 200-Level, 300-Level, 400-Level**
- **CLAS — 200-Level, 300-Level, 400-Level**
- **CMRS — 100-Level, 200-Level, 300-Level, 400-Level**
- **GRK — 400-Level**
- **LATN — 400-Level**
- **IS 406.3 Confronting Climate Change**
- **NURS 410.3** History of Health Systems Public Health and Nursing in Canada

### **History - Minor**

#### **Requirements (24 credit units)**

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

- **HIST — 100-Level**

Choose **18 credit units** from the following:

Students are encouraged to take 6 credit units at the 300-level with a view to strengthening their research, writing, and oral communication skills.

- [CLAS — 200-Level, 300-Level, 400-Level](#)
- [CMRS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GRK — 400-Level](#)
- [HIST — 200-Level, 300-Level, 400-Level](#)
- [LATN — 400-Level](#)
- [IS 406.3 Confronting Climate Change](#)
- [NURS 410.3](#) History of Health Systems Public Health and Nursing in Canada

Rationale: In accordance with a policy adopted by the History Department in May 2023, the History Undergrad Committee met in September 2023 to approve this IS course as partially fulfilling requirements in HIST programs. We use the following criteria when evaluating an IS course for this purpose: a) at least 60% of readings must be historically focused, b) course must be taught by a member of the History department or an instructor with a PhD in History, c) historical understanding must be an important and explicit part of course objectives, d) assignments must use the History Department citation style (i.e., Rampolla or Chicago style), and e) HIST majors enrolled in IS courses would be encouraged to take a historical approach in their research paper or project.

## **Hydrology**

### **Minor program revisions**

#### **Bachelor of Science Honours and Four-year in Hydrology**

In C1 add MATH 133 and MATH 134 to the list of Quantitative Reasoning course options. In C3 add CHEM 146 as an alternate to CHEM 115, and PHYS 156 as an alternate to PHYS 115. In C4 add CMPT 142 as an alternate to CMPT 141.

#### **Bachelor of Science Honours (B.Sc. Honours) - Hydrology**

C1 College Requirement (15 credit units)

...

### **Quantitative Reasoning**

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

- [MATH 110.3](#) Calculus I
- [MATH 133.4 Engineering Mathematics I](#)
- [MATH 176.3](#) Advanced Calculus I

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

- [MATH 116.3](#) Calculus II
- [MATH 134.3 Engineering Mathematics II](#)
- [MATH 177.3](#) Advanced Calculus II



### C3 Cognate Requirement (30 credit units)

#### Junior course requirements:

- [CHEM 112.3](#) General Chemistry I Structure Bonding and Properties of Materials
- [CHEM 115.3](#) General Chemistry II Chemical Processes or [CHEM 146.3](#) General Chemistry for Engineers
- [PHYS 115.3](#) Physics and the Universe or [PHYS 156.3](#) Electromagnetism and Waves for Engineers
- [PHYS 117.3](#) Physics for the Life Sciences or [PHYS 125.3](#) Physics and Technology

#### Senior course requirements:

...

### C4 Major Requirement (60 credit units)

...

#### Field/Laboratory/Quantitative Skills (15 credit units)

- [CMPT 141.3](#) Introduction to Computer Science or [CMPT 142.3](#) Introduction to Computer Science for Engineers
- [GEOG 222.3](#) Geomatics
- [GEOG 290.3](#) Field Methods in Hydrology
- [GEOG 302.3](#) Quantitative Methods in Geography
- [GEOG 323.3](#) Remote Sensing

...

### Bachelor of Science Four-year (B.Sc. Four-year) - Hydrology

#### C1 College Requirement (15 credit units)

...

#### Quantitative Reasoning

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

- [MATH 110.3](#) Calculus I
- [MATH 133.4](#) Engineering Mathematics I
- [MATH 176.3](#) Advanced Calculus I

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

- [MATH 116.3](#) Calculus II
- [MATH 134.3](#) Engineering Mathematics II
- [MATH 177.3](#) Advanced Calculus II

### C3 Cognate Requirement (30 credit units)

#### Junior course requirements:

- [CHEM 112.3](#) General Chemistry I Structure Bonding and Properties of Materials
- [CHEM 115.3](#) General Chemistry II Chemical Processes or [CHEM 146.3](#) General Chemistry for Engineers
- [PHYS 115.3](#) Physics and the Universe or [PHYS 156.3](#) Electromagnetism and Waves for Engineers
- [PHYS 117.3](#) Physics for the Life Sciences or [PHYS 125.3](#) Physics and Technology

#### Senior course requirements:

...

### C4 Major Requirement (54 credit units)

...

#### Field/Laboratory/Quantitative Skills (12 credit units)

- [GEOG 222.3](#) Geomatics
- [GEOG 290.3](#) Field Methods in Hydrology

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

- [CMPT 141.3](#) Introduction to Computer Science or [CMPT 142.3](#) Introduction to Computer Science for Engineers
- [GEOG 302.3](#) Quantitative Methods in Geography
- [GEOG 322.3](#) Geographic Information Systems
- [GEOG 323.3](#) Remote Sensing

...

Rationale: These changes are to allow students that are looking to change from an engineering program to the BSc in Hydrology see that they may use already completed A&S credits in the program. The added courses are already accepted as providing students will foundational learning in the sciences equivalent to the requirements already included in the Hydrology program, but this will make that explicit.

#### Minor course revision

##### **GEOG 120.3 Introduction to Global Environmental Systems**

Change laboratory hours from 1P to 2P.

Rationale: GEOG 120 currently introduces lab assignments in the lab, but students complete the work on their own time. This change will allow students to complete the work in the lab time, which will ensure that they have access to assistance while they work through the assignments. This change will allow the course to continue to serve as a science elective for students in Engineering programs.

## International Studies

### Minor program revisions

#### **Bachelor of Arts Honours and Four-year in International Studies**

1. In the B4 Major Requirement, remove IS 211.3 and IS 212.3 from the mandatory course list and add them to the restricted electives list.
2. In the B4 Major Requirement, add IS 220.3 to the mandatory course list and remove requirement to take one of POLS 256.3 or SOC 232.3.
3. As part of their B4 Major Requirement, students will now be required to take 6 credit units from either IS 401.3, IS 402.3, or IS 406.3.
4. Increase the number of credit units required for elective courses in B4 Major Requirement from 24 to 30 credit units for Honours and from 21 to 27 credit units for Four-year.
5. Remove HIST 242.3, HIST 389.3, HIST 445.3, SOC 305.3, and SOC 344.3 from the restricted electives list in the B4 Major Requirement.
6. Add ANTH 226.3, ANTH 240.3, GEOG 233.3, HIST 227.3, HIST 237.3, HIST 241.3, HIST 243.3, HIST 277.3, HIST 405.3, HIST 410.3, HIST 416.3, INDG 331.3, POLS 238.3, POLS 250.3, POLS 379.3, POLS 422.3, POLS 463.3, and WGST 220.3 to the restricted electives list in the B4 Major Requirement.
7. Change language pertaining to internships to: "One of POLS 383.3 Career Internship or ECON 387.3 Economics Career Internship or SOSC 320.6 Washington Center Internship or both SOSC 322.3 Washington Center Internship Summer and SOSC 323.3 Washington Center Portfolio Summer."

#### Bachelor of Arts (B.A. Honours) - International Studies

##### **B4 Major Requirement (57 credit units)**

- **ECON 254.3** International Trading System
- **GEOG 208.3** World Regional Development
- **HIST 292.3** The Menace of Progress I Enlightenment Colonialism Dispossession
- **HIST 293.3** The Menace of Progress II The Promise and Failure of Development
- **IS 220.3** Methods and Approaches in International Studies
- ~~IS 211.3~~ Introduction to International Studies Development
- ~~IS 212.3~~ International Studies and Conflict
- ~~IS 401.3~~ International Cooperation and Conflict
- ~~IS 402.3~~ International Development
- ~~POLS 256.3~~ Understanding Political Science Research or ~~SOC 232.3~~ Methods of Social Research
- **POLS 261.3** Global Politics
- **POLS 262.3** Global Governance

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

- ~~IS 401.3~~ International Cooperation and Conflict
- ~~IS 402.3~~ International Development
- **IS 406.3** Confronting Climate Change

Choose **24 30 credit units** from the following:

At least 6 credit units must be at the 400-level or above.

- **ANTH 226.3** Business and Industrial Anthropology
- **ANTH 227.3** Cultures of Central and Eastern Europe
- **ANTH 231.3** Cross Cultural Perspectives on Health and Illness

- [ANTH 235.3](#) Anthropological Approaches to Ethnicity and Ethnic Groups
- [ANTH 240.3](#) Cultural Landscapes and Environments
- [ANTH 310.3](#) Anthropology of Gender
- [ANTH 329.3](#) Environmental Anthropology
- [ANTH 332.3](#) Anthropology of Infectious Disease
- [ANTH 339.3](#) Cultural Change, Globalization and Development
- [ANTH 405.3](#) Anthropology of Disaster and Dislocation
- [ECON 221.3](#) Women and the Economy
- [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 314.3](#) Development Economics
- [ECON 354.3](#) International Trade and Commercial Policy
- [ECON 356.3](#) International Monetary Economics
- [ECON 376.3](#)
- [GEOG 233.3](#) Weather and Climate
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 333.3](#) Global Climate Change
- [HIST 233.3](#) War and Medicine from Paracelsus to Penicillin
- [HIST 227.3](#) The Israeli-Palestinian Conflict
- [HIST 234.3](#) Europe from 1870 to 1939 War Politics and Culture in Modern Mass Society
- [HIST 235.3](#) Europe since 1939 From the Second World War to the Creation of the European Union and Beyond
- [HIST 237.3](#) History of Infectious Diseases and Vaccines
- [HIST 239.3](#) The Age of Revolutions in the Atlantic World
- [HIST 241.3](#) Anglobalization Britain and its Empire 1700 to 2000
- ~~[HIST 242.3](#)~~
- [HIST 243.3](#) The Reverberations of the Industrial Revolution 1750 to today
- [HIST 267.3](#) African History From Hominids to 1900
- [HIST 268.3](#) African History 1900 until Yesterday
- [HIST 272.3](#) Human Rights in History
- [HIST 277.3](#) Resistance and Dispossession Latin America in the 19<sup>th</sup> Century
- [HIST 279.3](#) The Middle East in the 20<sup>th</sup> Century
- [HIST 294.3](#) International and Global History
- [HIST 303.3](#) Sex Gender and Sexuality in Africa
- [HIST 370.3](#) Violence Smuggling and Vice Borderlands and the Gaps of Power
- [HIST 371.3](#) Power and Change The History of Energy
- [HIST 375.3](#) USA Foreign Relations 1945 to the Present
- [HIST 387.3](#)
- [HIST 388.3](#) Mass Killing and Genocide in the Twentieth Century
- ~~[HIST 389.3](#)~~
- [HIST 405.3](#) Wars and Sexualities in 20<sup>th</sup> Century Europe
- [HIST 410.3](#) France in the Americas 1500 to 1803 In Search of Empire
- [HIST 416.3](#) Intoxicating History Alcohol and Drugs
- ~~[HIST 445.3](#)~~
- [HIST 453.3](#) Decolonization in the Postcolonial World
- [HIST 474.3](#) The United States in the Nuclear Age
- [HIST 472.3](#) The United States and the Middle East
- [HIST 478.3](#) United States and the Vietnam Wars
- [HIST 488.3](#) Topics in History of Development
- [INDG 321.3](#) International Indigenous Disaster Risk Reduction
- [INDG 331.3](#) Colonialism and Decolonization

- **IS 211.3** Introduction to International Studies Development
- **IS 212.3** International Studies and Conflict
- **POLS 207.3** Feminist Political Theory
- **POLS 221.3** Global Indigenous Politics
- **POLS 238.3** Global Ideologies in the 21<sup>st</sup> Century
- **POLS 237.3** Modern Political Theory
- **POLS 244.3** Politics of Development
- **POLS 245.3** Politics of Africa
- **POLS 250.3** Understanding the State in a Global Era
- **POLS 251.3** Social Movements and Change
- **POLS 263.3** The Politics of International Law
- **POLS 324.3** Metis otehpayimusuk and apihtawikosisanak Governance
- **POLS 341.3** Asian Government and Politics
- **POLS 345.3** Resource Extraction Resistance and Sustainable Development
- **POLS 362.3** Global Capitalism
- **POLS 364.3** International Terrorism
- **POLS 370.3** War Militarism and Society
- **POLS 372.3** Peacebuilding and Political Reconciliation
- **POLS 375.3** Canadian Foreign Policy in the Global Era
- **POLS 379.3** Washinton Center Topics in Political Studies (or equivalent)
- **POLS 410.3** The Politics of Security
- **POLS 422.3** Indigenous Governance
- **POLS 446.3** Democracy in Africa
- **POLS 460.3** Ethics and Global Politics
- **POLS 461.3** Topics in Global Politics
- **POLS 463.3** Politics and the International Criminal Court
- **POLS 465.3** Nationalism
- **POLS 471.3** Global Governance in a Contested World
- **SOC 202.3** Environmental Sociology
- **SOC 204.3** Rural Sociology and Rural Development
- **SOC 205.3** Comparative Race and Ethnic Relations
- **SOC 224.3** Collective Behaviour
- **SOC 260.3** Social Change and Global Solidarity
- **SOC 284.3** Surveillance and Society
- ~~**SOC 305.3**~~
- **SOC 310.3** White Collar and Corporate Crime in the Global Context
- ~~**SOC 344.3**~~
- **SOC 360.3** Globalization and Social Justice
- **SOC 402.3** Sociology of Agriculture and Food
- **SOC 408.3** Colonialism Gender and Violence
- **SOC 409.3** Sociology of Development
- **SOC 484.3** Surveillance and Power
- **WGST 201.3** Images of Gender and Sexuality in Popular Culture
- **WGST 210.3** Gendered Perspectives on Current Events
- **WGST 220.3** Queering the Terrain Cultural Space and Queer Theory
- **WGST 411.3** Situated Transnational Feminisms
- ~~One of **PSY 379.3** or **SOC 379.3** or **ECON 379.3** or **GEOG 379.3** or **POLS 379.3** Washington Center Topics in Political Studies or **ANTH 379.3**~~
- One of **POLS 383.3** Career Internship or **POLS 384.3** or **ECON 387.3** Economics Career Internship or **SOSC 320.6** Washington Center Internship or both of **SOSC 322.3** Washington Center Internship Summer and **SOSC 323.3** Washington Center Portfolio Summer ~~**POLS 482.6**~~

## Bachelor of Arts (B.A. Four-year) - International Studies

### B4 Major Requirement (54 credit units)

- [ECON 254.3](#) International Trading System
- [GEOG 208.3](#) World Regional Development
- [HIST 292.3](#) The Menace of Progress I Enlightenment Colonialism Dispossession
- [HIST 293.3](#) The Menace of Progress II The Promise and Failure of Development
- [IS 220.3](#) Methods and Approaches in International Studies
- ~~[IS 211.3](#) Introduction to International Studies Development~~
- ~~[IS 212.3](#) International Studies and Conflict~~
- ~~[IS 401.3](#) International Cooperation and Conflict~~
- ~~[IS 402.3](#) International Development~~
- ~~[POLS 256.3](#) Understanding Political Science Research or [SOC 232.3](#) Methods of Social Research~~
- [POLS 261.3](#) Global Politics
- [POLS 262.3](#) Global Governance

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

- [IS 401.3](#) International Cooperation and Conflict
- [IS 402.3](#) International Development
- [IS 406.3](#) Confronting Climate Change

Choose **24-27 credit units** from the following:

At least 6 credit units must be at the 300-level or above.

- [ANTH 226.3](#) Business and Industrial Anthropology
- [ANTH 227.3](#) Cultures of Central and Eastern Europe
- [ANTH 231.3](#) Cross Cultural Perspectives on Health and Illness
- [ANTH 235.3](#) Anthropological Approaches to Ethnicity and Ethnic Groups
- [ANTH 240.3](#) Cultural Landscapes and Environments
- [ANTH 310.3](#) Anthropology of Gender
- [ANTH 329.3](#) Environmental Anthropology
- [ANTH 332.3](#) Anthropology of Infectious Disease
- [ANTH 339.3](#) Cultural Change, Globalization and Development
- [ANTH 405.3](#) Anthropology of Disaster and Dislocation
- [ECON 221.3](#) Women and the Economy
- [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 314.3](#) Development Economics
- [ECON 354.3](#) International Trade and Commercial Policy
- [ECON 356.3](#) International Monetary Economics
- [ECON 376.3](#)
- [GEOG 233.3](#) Weather and Climate
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 333.3](#) Global Climate Change
- [HIST 233.3](#) War and Medicine from Paracelsus to Penicillin
- [HIST 227.3](#) The Israeli-Palestinian Conflict

- [HIST 234.3](#) Europe from 1870 to 1939 War Politics and Culture in Modern Mass Society
- [HIST 235.3](#) Europe since 1939 From the Second World War to the Creation of the European Union and Beyond
- [HIST 237.3](#) History of Infectious Diseases and Vaccines
- [HIST 239.3](#) The Age of Revolutions in the Atlantic World
- [HIST 241.3](#) Anglobalization Britain and its Empire 1700 to 2000
- ~~[HIST 242.3](#)~~
- [HIST 243.3](#) The Reverberations of the Industrial Revolution 1750 to today
- [HIST 267.3](#) African History From Hominids to 1900
- [HIST 268.3](#) African History 1900 until Yesterday
- [HIST 272.3](#) Human Rights in History
- [HIST 277.3](#) Resistance and Dispossession Latin America in the 19<sup>th</sup> Century
- [HIST 279.3](#) The Middle East in the 20<sup>th</sup> Century
- [HIST 294.3](#) International and Global History
- [HIST 303.3](#) Sex Gender and Sexuality in Africa
- [HIST 370.3](#) Violence Smuggling and Vice Borderlands and the Gaps of Power
- [HIST 371.3](#) Power and Change The History of Energy
- [HIST 375.3](#) USA Foreign Relations 1945 to the Present
- HIST 387.3
- [HIST 388.3](#) Mass Killing and Genocide in the Twentieth Century
- ~~[HIST 389.3](#)~~
- [HIST 405.3](#) Wars and Sexualities in 20<sup>th</sup> Century Europe
- [HIST 410.3](#) France in the Americas 1500 to 1803 In Search of Empire
- [HIST 416.3](#) Intoxicating History Alcohol and Drugs
- ~~[HIST 445.3](#)~~
- [HIST 453.3](#) Decolonization in the Postcolonial World
- [HIST 474.3](#) The United States in the Nuclear Age
- [HIST 472.3](#) The United States and the Middle East
- [HIST 478.3](#) United States and the Vietnam Wars
- [HIST 488.3](#) Topics in History of Development
- [INDG 321.3](#) International Indigenous Disaster Risk Reduction
- [INDG 331.3](#) Colonialism and Decolonization
- [IS 211.3](#) Introduction to International Studies Development
- [IS 212.3](#) International Studies and Conflict
- [POLS 207.3](#) Feminist Political Theory
- [POLS 221.3](#) Global Indigenous Politics
- [POLS 238.3](#) Global Ideologies in the 21<sup>st</sup> Century
- [POLS 237.3](#) Modern Political Theory
- [POLS 244.3](#) Politics of Development
- [POLS 245.3](#) Politics of Africa
- [POLS 250.3](#) Understanding the State in a Global Era
- [POLS 251.3](#) Social Movements and Change
- [POLS 263.3](#) The Politics of International Law
- [POLS 324.3](#) Metis otehpayimusuak and apihtawikosisanak Governance
- [POLS 341.3](#) Asian Government and Politics
- [POLS 345.3](#) Resource Extraction Resistance and Sustainable Development
- [POLS 362.3](#) Global Capitalism
- [POLS 364.3](#) International Terrorism
- [POLS 370.3](#) War Militarism and Society
- [POLS 372.3](#) Peacebuilding and Political Reconciliation
- [POLS 375.3](#) Canadian Foreign Policy in the Global Era
- [POLS 379.3](#) Washinton Center Topics in Political Studies (or equivalent)
- [POLS 410.3](#) The Politics of Security

- [POLS 422.3 Indigenous Governance](#)
- [POLS 446.3 Democracy in Africa](#)
- [POLS 460.3 Ethics and Global Politics](#)
- [POLS 461.3 Topics in Global Politics](#)
- [POLS 463.3 Politics and the International Criminal Court](#)
- [POLS 465.3 Nationalism](#)
- [POLS 471.3 Global Governance in a Contested World](#)
- [SOC 202.3 Environmental Sociology](#)
- [SOC 204.3 Rural Sociology and Rural Development](#)
- [SOC 205.3 Comparative Race and Ethnic Relations](#)
- [SOC 224.3 Collective Behaviour](#)
- [SOC 260.3 Social Change and Global Solidarity](#)
- [SOC 284.3 Surveillance and Society](#)
- ~~[SOC 305.3](#)~~
- [SOC 310.3 White Collar and Corporate Crime in the Global Context](#)
- ~~[SOC 344.3](#)~~
- [SOC 360.3 Globalization and Social Justice](#)
- [SOC 402.3 Sociology of Agriculture and Food](#)
- [SOC 408.3 Colonialism Gender and Violence](#)
- [SOC 409.3 Sociology of Development](#)
- [SOC 484.3 Surveillance and Power](#)
- [WGST 201.3 Images of Gender and Sexuality in Popular Culture](#)
- [WGST 210.3 Gendered Perspectives on Current Events](#)
- [WGST 220.3 Queering the Terrain Cultural Space and Queer Theory](#)
- [WGST 411.3 Situated Transnational Feminisms](#)
- ~~One of [PSY 379.3](#) or [SOC 379.3](#) or [ECON 379.3](#) or [GEOG 379.3](#) or [POLS 379.3](#) Washington Center Topics in Political Studies or [ANTH 379.3](#)~~
- One of [POLS 383.3](#) Career Internship or ~~[POLS 384.3](#)~~ or [ECON 387.3](#) Economics Career Internship or [SOSC 320.6](#) Washington Center Internship or ~~both of [SOSC 322.3](#) Washington Center Internship Summer and [SOSC 323.3](#) Washington Center Portfolio Summer~~ ~~[POLS 482.6](#)~~

Rationale: During its September meeting, the International Studies Program Committee (ISPC) unanimously supported these proposed minor program changes. The rationale for creating IS 220 and moving away from IS 211/212 is two-fold: a. to provide students with a specifically interdisciplinary course on methods and differing approaches to the field of International Studies; and b. current courses listed in the B4 restricted electives course list noticeably overlap with topics in IS 211/212 (i.e. POLS 244, HIST 294, etc.). This change will also let students take a research methods course that is tailored to the discipline, rather than the courses offered by related disciplines (POLS 256 or SOC 232).

The addition of IS 406.3 (Confronting Climate Change) will give students the opportunity to directly study the impact of climate change on different countries, and how this impacts global relations, economies and culture.

New courses added are relevant to the discipline. Courses removed from the restricted electives are inactive.

#### **New course(s):**

##### **IS 220.3 Research Methods and Approaches in International Studies**

1/2 (2L-1S) This course offers an introduction to key research methods and approaches in the interdisciplinary field of International Studies. In a hands-on way, it teaches students how to best practice academic research, as well as apply varying quantitative tools and qualitative critiques when analyzing international relations and development. Topics include: the relationship between imperialism and the production of knowledge about things “international”; the racial legacies of the discipline of International Studies; the impact of transnational social movements on changing understandings of the international system; the challenges languages and translation when researching international matters; and how to best utilize a university library.



Prerequisite(s): 18 credit units at the 100-level including at least 12 credit units from ANTH, ARBC, CHIN, ECON, FREN, GEOG, GERM, HIST, INDG, JPNS, POLS, SOC, SPAN, UKR, WGST.

Instructor(s): Maurice Jr. Labelle

Rationale: This course offers IS students a structured learning to learn about international research methods and approaches.

### **IS 406.3 Confronting Climate Change**

1/2 (3L) Individuals cannot solve the climate emergency, even if we all have a role to play. Neither can individual countries. Climate change is a collective action problem that requires international cooperation to transform the global economy by 2050. Building on the success of the Montreal Protocol, the United Nations has worked to bring its member nations together in a similar process to confront climate change. The results of the annual Conference of the Parties (COP) Climate Change Conferences dating back to 1995 have been decidedly mixed. The United States never ratified the Kyoto Protocol and the 2009 Copenhagen meeting failed to reach an agreement. In 2015, the Paris Agreement made a breakthrough, but subsequent COP meetings have struggled to find agreement on how to meet the Paris targets or adequately fund the Loss and Damage Fund. This course will focus on this international process, first by stepping back and exploring the historical context of climate science, planetary thinking, economic growth, denialism and obstruction, new technologies, and the efficacy of international environmental agreements. We will then work together to organize a mock future COP meeting, developing negotiating positions for different national governments with the goal of developing what a new agreement might look like that address competing national concerns (e.g. United States, China, India, Canada, the European Union, Nigeria, and Small Island Nations). We will also consider the role of non-governmental actors in the COP meeting and the success of the commitments (e.g. the United Nations, large banks, Greenpeace and the Sunrise Movement, the climate tech sector, farmers organizations, and the major oil companies). Prerequisite(s): IS 220.3, IS 211.3 or IS 212.3; or the permission of the IS program adviser or the History Department Head.

Instructor(s): Jim Clifford; Andrew Watson

Rationale: This course is being created to expand the current 400-level International Studies course offerings. Climate change is a pressing international subject and this seminar allows students to engage with it in greater detail.

## **Physics**

### **Minor course revisions**

#### **EP 214.3 Analog Signals and Systems**

Prerequisite/co-requisite change:

Current: Prerequisite(s): EP 202 or EE 202. Prerequisite(s) or Co-requisite(s): MATH 224 or MATH 226 or MATH 238.

New: Prerequisite(s): EP 202.3 or GE 153.3 Prerequisite(s) or Co-requisite(s): MATH 224.3 or MATH 226.3 or MATH 238.3.

Rationale: EP 202 was removed last year from the Computer Engineering and Electrical Engineering programs, but EP 214 was retained in each. However, the Computer Engineering students would not be able to take EP 214 if EP 202 is a prerequisite. GE 153 introduces student to basic AC circuits, which is sufficient preparation for taking EP 214, and therefore will accommodate the program revisions. In 2023-24 the department issued overrides for all Computer Engineering students to take EP 214 without EP 202, and the instructor found no noticeable different in performance between the students who took EP 202 and those who did not.

#### **PHYS 117.3 Physics for the Life Sciences**

Prerequisite change:

Current: PHYS 115.3

New: PHYS 115.3 or PHYS 156.3

Rationale: A significant number of engineering students who have completed the common first year choose to transfer to Arts & Science programs. These students have credit for PHYS 156 but not PHYS 115. Making PHYS 156 a prerequisite in lieu of PHYS 115 will allow these students to take PHYS 117,

which is required in several Science programs. In terms of course content, PHYS 115 covers Newtonian Mechanics and Electromagnetism. The Mechanics part of PHYS 115 is mostly done in GE 122, and the Electromagnetism part is covered in PHYS 156. Students who pass PHYS 156 would certainly be able to pass GE 122 and have sufficient preparation for taking PHYS 117.

We have been issuing overrides to allow students to use PHYS 156 as the prerequisite to register in PHYS 117. This creates work for our department and may stop some students from registering in 117. It therefore makes sense to make this option explicit.

### **PHYS 125.3 Physics and Technology**

Prerequisite change:

Current: MATH 110.3, MATH 123.3, MATH 133.4, or MATH 176.3; and PHYS 115.3, GE 122.2, or GE 124.3.

New: MATH 110.3, MATH 123.3, MATH 133.4, or MATH 176.3; and PHYS 115.3, PHYS 156.3, or GE 124.3.

Rationale: See PHYS 117 above. The department has been issuing overrides to allow students to use PHYS 156 as the prerequisite to register in PHYS 125. This creates work for our department and may stop some students from registering in 125. It therefore makes sense to make this option explicit. Last year GE 122 was added as a prerequisite for PHYS 125, to allow students who transferred from Engineering to A&S as of January to take PHYS 125 in the Winter Term. This did not work as hoped, since the A&S programs that require PHYS 125 almost certainly also require PHYS 115, but students must take PHYS 115 before PHYS 125. Letting the students take PHYS 125 before PHYS 115 actually stops them from taking PHYS 115 later, which created a more difficult problem to solve. Therefore, we propose to remove GE 122 from the prerequisites of PHYS 125, and instead accept PHYS 156 in lieu of PHYS 115, as is being done in other A&S programs.

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The curricular revisions listed below were approved through the Arts & Science College Course and Program Challenge and are now submitted to the University Course Challenge for information.

## **Psychology**

### **Minor course revision**

#### **PSY 311.3 Environmental Psychology**

New course number: **PSY 411.3**

Rationale: This course will help us to offer a wider variety of topics at the 400-level for our senior students and help meet immense demand at the 400-level. At the 300-level, it exists awkwardly outside of existing prerequisite flows.

## College of Engineering - University Course Challenge Submission, November 2023

The following changes have been approved through the College of Engineering and are being submitted here for approval through the University Course Challenge process:

### Minor Program and Course Revisions:

#### Ron and Jane Graham School of Professional Development

1. **Motion:** To change the list of required and elective courses for the *Certificate in Professional Communication– Persuasive Communication* by adding RCM 402 to the list of required courses and requiring students to take a minimum of 2 courses from the list of required courses, as well as one additional RCM 400-level course as an elective.

**Rationale:** Changes to the required and elective courses for the certificate programs are essential to account for course offerings in different terms and faculty availability to teach course, and to enable students to complete the certificate courses within 1 or 2 terms.

### **Certificate in Professional Communication - Persuasive Communication**

The Certificate in Professional Communication- Persuasive Communication (CPC-PC) program is a certificate of proficiency program that prepares students for a professional career by cultivating communicative judgment in professional practice. In addition to learning the theoretical foundations of persuasive communication, students will gain skill in both written and oral formats, as well as in interpersonal team or leadership contexts. The program consists of three courses (9 credit units). All courses within the program have a rhetorical foundation and are delivered by the Ron and Jane Graham School of Professional Development, College of Engineering.

Registration in the Certificate in Professional Communication- Persuasive Communication is available to undergraduate students who are enrolled in any degree program at the University of Saskatchewan; however, it may also be completed as a stand-alone program. Students are required to complete ~~RCM 400.3, RCM 401.3, or RCM 402.3. In addition, an elective course must be taken for an additional 3 credit units at the RCM 400-level, other than the two courses used as required courses.~~

#### **Course Information**

All required courses, and most elective courses, in the Certificate in Professional Communication (CPC) program are offered on an annual basis during the fall and winter terms. Select courses may be offered during the spring and summer terms.

In its current form, all courses in the Certificate in Professional Communication (CPC) program are delivered in a traditional lecture format whereby participants are required to attend class in person at the University of Saskatchewan Saskatoon Campus. Courses are not currently offered online or in a modular or blended format.

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**Deleted:** as well as one of RCM 402.3, RCM 404.3, or RCM 495.3. On a case-by-base basis, RCM 406.3 or RCM 498.3 may replace one course requirement or elective with departmental approval.

For further information on current academic offerings, please consult the Dynamic Schedule or contact the School of Professional Development, College of Engineering via telephone (306-966-7830).

**Required Courses (6 credit units) which must be selected from the following list of course options:**

- ~~RCM 400.3 Rhetorical Theory and Practice of Persuasion~~
- ~~RCM 401.3 Oral Rhetoric or~~
- ~~RCM 402.3 Interpersonal Communication and Rhetoric~~

**Elective courses (3 credit units)**

Students can complete any RCM 400-level course for an elective course option, except for the above two courses which have been chosen as the designated required courses for this certificate.

- ~~RCM 402.3 Interpersonal Communication and Rhetoric~~
- ~~RCM 404.3 Leadership as Communication~~
- ~~RCM 495.3 Rhetorical Peer Mentorship~~

~~On a case-by-case basis, RCM 406.3 Studies in Communication Series or RCM 498.3 Special Topics may replace one course requirement or elective with departmental approval.~~

2. **Motion:** To change the list of required and elective courses for the *Certificate in Professional Communication -Leadership and Negotiation* by adding RCM 495 to the list of required courses and requiring students to take a minimum of 2 courses from the list of required courses, as well as one additional RCM 400-level course as an elective.

**Rationale:** Changes to the required and elective courses for the certificate programs are essential to account for course offerings in different terms and faculty availability to teach course, and to enable students to complete the certificate courses within 1 or 2 terms.

**Certificate in Professional Communication - Leadership and Negotiation**

The Certificate in Professional Communication- Leadership and Negotiation (CPC-LN) program is a certificate of proficiency program that prepares students for a professional career by cultivating communicative judgment in professional practice. In particular, students will develop skills in the interpersonal practice of leadership and negotiation as persuasive communication. The program consists of three courses (9 credit units). All courses within the program have a rhetorical foundation and are delivered by the Ron and Jane Graham School of Professional Development, College of Engineering.

Registration in the Certificate in Professional Communication- Leadership and Negotiation is available to undergraduate students who are enrolled in any degree program at the University of Saskatchewan; however, it may also be completed as a stand-alone program. Students are required to complete six

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credit units from RCM 404.3, RCM 409.3, and RCM 495.3. In addition, an elective course must be taken for an additional 3 credit units at the RCM 400-level, other than the two courses used as required courses.

**Deleted:** one of either: RCM 402.3 or RCM 495.3. On a case-by-base basis, RCM 406.3 or RCM 498.3 may replace one course requirement or elective with departmental approval.

### Course Information

All required courses, and most elective courses, in the Certificate in Professional Communication (CPC) program are offered on an annual basis during the fall and winter terms. Select courses may be offered during the spring and summer terms.

In its current form, all courses in the Certificate in Professional Communication (CPC) program are delivered in a traditional lecture format whereby participants are required to attend class in person at the University of Saskatchewan Saskatoon Campus. Courses are not currently offered online or in a modular or blended format.

For further information on current academic offerings, please consult the Dynamic Schedule or contact the School of Professional Development, College of Engineering via telephone (306-966-7830).

### Certificate Requirements (9 credit units)

**Required Courses (6 credit units) which must be selected from the following list of course options:**

- RCM 404.3 Leadership as Communication
- RCM 409.3 Negotiation as Rhetorical Practice or
- RCM 495.3 Rhetorical Peer Mentorship

**Commented [BS3]:** Note: RCM 495.3 is being added as a third course under the approved required courses that students can choose from.

### Elective courses (3 credit units)

Students can complete any RCM 400-level course for an elective course option, except for the above two courses which have been chosen as the designated required courses for this certificate.

**Commented [BS4]:** Rephrasing of the electives permitted under this subheading.

- ~~RCM 402.3~~ Interpersonal Communication and Rhetoric
- ~~RCM 495.3~~ Rhetorical Peer Mentorship

On a case-by case basis, ~~RCM 406.3~~ Studies in Communication Series or ~~RCM 498.3~~ Special Topics may replace one course requirement or elective with departmental approval.

3. **Motion:** To change the list of required and elective courses for the *Certificate in Professional Communication – Technical and Professional Writing* by add RCM 400 and RCM 410 to the list of required courses and requiring students to take a minimum of 2 courses from the list of required courses, as well as one additional RCM 400-level course as an elective.

**Rationale:** Changes to the Required and Elective courses for the certificate programs are essential to account for course offerings in different terms and faculty availability to teach course, and to enable students to complete the certificate courses within 1 or 2 terms.

### Certificate in Professional Communication - Technical and Professional Writing

The Certificate in Professional Communication- Technical and Professional Writing (CPC-TPW) program is a certificate of proficiency program that prepares students for a professional career by cultivating communicative judgment in professional practice. In particular, students will improve professional writing skills for both general and scientific audiences. The program consists of three courses (9 credit units). All courses within the program have a rhetorical foundation and are delivered by the Ron and Jane Graham School of Professional Development, College of Engineering.

Registration in the Certificate in Professional Communication: Technical and Professional Writing is available to undergraduate students who are enrolled in any degree program at the University of Saskatchewan; however, it may also be completed as a stand-alone program. Students are required to complete six credit units from: RCM 400.3, RCM 407.3, RCM 408.3 or RCM 410.3. In addition, an elective course must be taken for an additional 3 credit units at the RCM 400-level, other than the two courses used as required courses.

**Deleted:** one of RCM 408.3 or RCM 410.3, and one of RCM 400.3, RCM 408.3 or RCM 410.3. On a case-by-base basis, RCM 406.3 or RCM 498.3 may replace one course requirement or elective with departmental approval.

### Course Information

All required courses, and most elective courses, in the Certificate in Professional Communication (CPC) program are offered on an annual basis during the fall and winter terms. Select courses may be offered during the spring and summer terms.

In its current form, all courses in the Certificate in Professional Communication (CPC) program are delivered in a traditional lecture format whereby participants are required to attend class in person at the University of Saskatchewan Saskatoon Campus. Courses are not currently offered online or in a modular or blended format.

For further information on current academic offerings, please consult the Dynamic Schedule or contact the School of Professional Development, College of Engineering via telephone (306-966-7830).

### Certificate Requirements (9 credit units)

**Required Courses (6 credit units) which must be selected from the following list of course options:**

- RCM 400.3 Rhetorical Theory and Practice of Persuasion
- RCM 407.3 Rhetorical Editing
- RCM 408.3 Rhetorical Composition Writing for the Public
- RCM 410.3 Rhetoric of Science and Technology

**Commented [BS5]:** Note: RCM 400.3 is being added as a fourth course option under the approved required courses that students can choose from.

### Elective courses (3 credit units)

Students can complete any RCM 400-level course for an elective course option, except for the above two courses which have been chosen as the designated required courses for this certificate.

- ~~RCM 400.3~~ Rhetorical Theory and Practice of Persuasion
- ~~RCM 408.3~~ Rhetorical Composition Writing for the Public
- ~~RCM 410.3~~ Rhetoric of Science and Technology

On a case-by-case basis, ~~RCM 406.3~~ Studies in Communication Series or ~~RCM 498.3~~ Special Topics may replace one course requirement or elective with departmental approval.

**Commented [BS6]:** Note: update phrasing under the approved list of elective options as per the department.

### Mechanical Engineering:

4. **Motion:** To change the prerequisites for ME 226.3 Mechanics III from the following:
  - Prerequisites: (GE 125.3 or GE 122.2), GE 152.1, and MATH 223.3 (taken) to the following:
  - (GE 125.3 or GE 122.2), ~~GE 152.1~~, ~~GE 172.1~~, (CMPT 142.3 or CMPT 141.3), and MATH 223.3 (taken).

**Rationale:** ME 226.3 requires these prerequisites to be updated such that the first year Engineering MATLAB instruction as well as the first year Python course – i.e., *CMPT 142.3 Introduction to Computer Science for Engineers (or CMPT 141.3, which is considered equivalent)* – are accurately reflected. In addition, students who have already taken the previous iteration of GE 152.1 with MATLAB instruction would need to be granted a course prerequisite override by the ESC.

5. **Motion:** To change the prerequisites for **ME 460.3 Automation and Robotics in Manufacturing** from the following:
  - ME 226; and ME 251 to the following:
  - ME 226; and [ME 251.3 or (**ME 113.3** and **GE 210.3**)].

**Rationale:** As ME 251.3 is no longer offered, the prerequisites have been modified to include the two courses in which the relevant content from ME 251.3 is covered.

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### Environmental Engineering:

6. **Motion:** To remove CHE 210 Fluid Mechanics I from the 2nd year Environmental Engineering program effective 2024-2025 and to add CE 225 Fluid Mechanics to the 2nd year Environmental Engineering program effective 2024-2025.

**Rationale:** ENVE students take the second-year course in fluid mechanics within the department CE 315 that is in series with CE 225. However, they take CHE 210 instead of CE 225 as a prerequisite. This is leading to them being behind in the laboratory component of the CE 315. ENVE students tend to have poorer grades in CE 315 than the CE students, sometimes with much higher failure rates.

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### Year 1 (41-44 credit units)

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All Engineering programs have a common first year.

### Year 2 (36 credit units)

#### Fall Term

- CE 212.3 Civil Engineering Materials
- ENVE 201.3 Principles of Environmental Engineering
- GE 210.3 Probability and Statistics
- GEOL 121.3 Earth Processes
- MATH 223.3 Calculus III for Engineers

#### Winter Term

- CE 213.3 Mechanics of Materials
- ~~CHE 210.3 Fluid Mechanics I~~ CE 225 Fluid Mechanics
- ENVE 212.3 Physical Principles of Plant Biosystems
- GEOE 218.3 Engineering Geology
- MATH 224.3 Calculus IV for Engineers

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#### Fall Term or Winter Term

- BIOL 120.3 The Nature of Life
- 3 credit units Junior Humanities or Social Science Elective

7. **Motion:** To change the prerequisites for ENVE 395 from the following:
- CE 202, ENVE 201, RCM 200, and GE 213 (taken)
- to the following:
- CE 202, ENVE 201, RCM 200, and (CE 213 (taken) or GE 213 (taken)).

**Rationale:** CE 213 has replaced GE 213 in the ENVE program. As such, it needs to be added as a prerequisite for ENVE 395. However, the ENVE program is allowing student to use GE 213 as a replacement for CE 213 if the student has failed CE 213 but not withdrawn. Thus, GE 213 must remain on the prerequisite list.



8. **Motion:** change the prerequisites for ENVE 495 Capstone Design Project from the following:
- Prerequisite(s): ENVE 201 and RCM 200 and GE 348.
  - Prerequisite(s) or Corequisite(s): CE 320.
- to the following:
- Prerequisite(s): ENVE 395 (Environmental Engineering Design Project), CE327 (taken), ENVE 381 (taken), CE 318 (taken) and CE 328 (taken), and
  - Prerequisite or Corequisite(s): CE 320.

**Rationale:** Although ENVE 395 has existed for several years, the prerequisites for ENVE 495 have not been changed. This has meant that students have been entering ENVE 495 without necessarily taking ENVE 395 first.

## **Editorial Change for Information**

### **Mechanical Engineering**

9. **Motion:** To approve a revised catalogue entry for **ME 495.6 – Industrial Design Project**, such that the new description is changed to the following submission:

#### **ME 495.6 — 1(3L-3P) &2(3P)**

##### *Industrial Design Project*

This capstone design project course is focused on the synthesis and design of mechanical engineering systems. Students work together in small design groups, follow the key steps of the engineering design process, and apply their engineering knowledge base, to define, analyze, and solve real-life engineering design problems submitted by industrial and external clients. The design groups work closely with their clients and receive support from faculty advisors. Project management, teamwork, professionalism, health and safety, codes and standards, sustainability, risk assessment, and oral and written communication skills are emphasized. The deliverables provided to the client may include a technical report, working prototype, computer model, operating instructions, and engineering drawings. The course concludes with a final presentation of the design project to the public.

Prerequisite(s): ME 329 and 53 credit units from ME Program Core.

Note: Students with credit for GE 495.6 will not receive credit for this course. **Students cannot be simultaneously registered in both ME 495.6 and GE 495.6.**

**Rationale:** This course description needed to be updated to reflect the current content, organization, and delivery of ME 495.6. Furthermore, the change in contact hours reflects our practice over the last number of years of only scheduling ME 495 lectures in the first term.



## University Course Challenge – November 2023

The curricular revisions listed below were approved through the Graduate Programs Committee of the College of Graduate and Postdoctoral Studies and are now submitted to the University Course Challenge for approval.

Contact: Chelsea Smith, CGPS Academic Affairs Specialist ([chelsea.smith@usask.ca](mailto:chelsea.smith@usask.ca) or [gradprograms.academicaffairs@usask.ca](mailto:gradprograms.academicaffairs@usask.ca))

### Edwards School of Business Minor Program Revisions

**Juris Doctor (J.D.) and Master of Business Administration (M.B.A.) Combined Degree AND Doctor of Pharmacy (Pharm.D.) and Master of Business Administration (M.B.A.) Combined Degree**  
Clarifying program requirements and aligning MBA requirements with recently approved MBA changes.

### Juris Doctor (J.D.) and Master of Business Administration (M.B.A.) Combined Degree - Course-based

#### Degree Requirements

- GPS 960.0
- GPS 961.0, if research involves human subjects
- GPS 962.0, if research involves animal subjects
- LAW 202.5
- LAW 203.5
- LAW 210.5
- LAW 211.5
- LAW 230.5
- LAW 232.3
- LAW 244.0
- LAW 245.2
- LAW 300.0
- LAW 301.0
- ~~LAW 308.3, LAW 313.3, LAW 341.3, LAW 422.3, LAW 436.3, or LAW 443.3, or LAW 447.3 or LAW 453.3 or LAW 473.3, or LAW 479.3, or LAW 480.3 or equivalent as approved by the Associate Dean Academic, College of Law~~

Students must complete **3 credit units** from the following list of upper-year Indigenous Law courses, or equivalent, as approved by the Associate Dean, Academic:

- LAW 308.3, LAW 313.3, LAW 341.3, LAW 422.3, LAW 436.3, LAW 443.3, LAW 447.3, LAW 453.3, LAW 473.3, LAW 479.3, or LAW 480.3
- LAW 340.3
- LAW 421.3 or LAW 497.3
- LAW 430.3
- LAW 439.3
- LAW 467.3

- MBA 803.3
- **MBA 825.3**
- MBA 828.3
- **MBA 829.3**
- MBA 830.3
- ~~MBA 859.4~~
- ~~MBA 862.3~~
- ~~MBA 863.2 or an approved elective from an international partner institution or an Edwards "taught abroad" course~~
- MBA 865.3
- ~~MBA 866.2~~
- **MBA 878.3**
- MBA 885.3
- **MBA 889.3**
- MBA 992.3
- **Choose two of the following:**
  - MBA 819.3
  - MBA 846.3
  - MBA 870.3
- **an additional 36 credit units** of LAW course work which must include a minimum of 3 credit units (with a minimum 60% average) from the following list of Seminar Classes or equivalent, as approved by the Associate Dean Academic (Year 2 or Year 3). The Seminar Class may meet more than one requirement. Choices are as follows:
  - LAW 305.3
  - LAW 341.3
  - LAW 349.3
  - LAW 393.3
  - LAW 400.3
  - LAW 405.3
  - LAW 406.3
  - LAW 413.3
  - LAW 414.3
  - LAW 416.3
  - LAW 418.3
  - LAW 420.3
  - LAW 422.3
  - LAW 424.3
  - LAW 426.3
  - LAW 429.3
  - LAW 431.3
  - LAW 432.3
  - LAW 433.3
  - LAW 435.3

- LAW 438.3
- LAW 442.3
- LAW 443.3
- LAW 446.3
- LAW 453.3
- LAW 458.3
- LAW 463.3
- LAW 465.3
- LAW 466.3
- LAW 468.3
- LAW 470.3
- LAW 473.3
- LAW 474.3
- LAW 479.3
- LAW 480.3
- LAW 481.3
- LAW 482.3
- LAW 485.3
- LAW 486.3
- LAW 488.3
- LAW 491.3
- LAW 493.3
- LAW 494.3
- LAW 497.3

\*Students who choose to complete LAW 497.3 Legal Ethics Clinical Seminar must complete LAW 492.12 Clinical Law Practicum concurrently. LAW 492.12 Clinical Law Practicum will be counted toward the 15 credit unit course load per term required in Years 2 and 3.

**Rationale:** Changes to the degree requirements are being made to clarify requirements for the LAW courses and to align the MBA requirements with those approved for the standard MBA program – to be updated in the 2024-25 catalogue.

- LAW section change: clarifying that only 3 credit units are required from the highlighted list of courses, which are in upper-year Indigenous law courses (or equivalent). The previous wording did not convey this message clearly and was confusing to readers.
- Course changes to the MBA program have been approved for the 2024-2025 academic year but were not updated for this combined degree. The changes here reflect the approved changes to the MBA program.

### **Doctor of Pharmacy (Pharm.D.) and Master of Business Administration (M.B.A.) Combined Degree Program**

#### **Degree Requirements (203 credit units)**

Students must complete the following course requirements:

**Business Administration Courses:**

- MBA 803.3
- MBA 813.3
- **MBA 825.3**
- MBA 828.3
- **MBA 829.3**
- MBA 830.3
- MBA 846.3
- ~~MBA 859.4~~
- ~~MBA 862.4~~
- ~~MBA 863.2 or an approved elective from an international partner institution or an Edwards "taught abroad" course~~
- MBA 865.3
- ~~MBA 866.2~~
- **MBA 878.3**
- MBA 885.3
- **MBA 889.3**
- MBA 992.3

**Choose one of the following:**

- MBA 819.3
- MBA 870.3

**Pharmacy Courses:**

- PHAR 110.3
- PHAR 111.1
- PHAR 112.1
- PHAR 121.3
- PHAR 122.3
- PHAR 123.3
- PHAR 124.3
- PHAR 152.6
- PHAR 153.4
- PHAR 154.3
- PHAR 162.3
- PHAR 170.3
- PHAR 171.3
- PHAR 185.4
- PHAR 188.2
- PHAR 189.2
- PHAR 190.0
- PHAR 191.1
- PHAR 192.1
- PHAR 193.0
- PHAR 212.1
- PHAR 213.3
- PHAR 224.3
- PHAR 225.3
- PHAR 226.3
- PHAR 253.6
- PHAR 255.6

- PHAR 262.1
- PHAR 263.1
- PHAR 271.3
- PHAR 272.3
- PHAR 273.3
- PHAR 285.4
- PHAR 288.2
- PHAR 290.0
- PHAR 291.1
- PHAR 292.1
- **PHAR 293.0**
- PHAR 315.3
- PHAR 324.3
- PHAR 350.3
- PHAR 358.6
- PHAR 359.6
- PHAR 367.1
- PHAR 368.1
- PHAR 374.3
- PHAR 375.3
- PHAR 388.2
- PHAR 390.0
- PHAR 391.1
- PHAR 392.1
- PHAR 395.3
- PHAR 481.8
- PHAR 482.8
- PHAR 483.8
- PHAR 487.1
- PHAR 488.1
- PHAR 489.1
- PHAR 490.0

**Choose either of the following 2 options:**

1) PHAR 484.8

2) PHAR 485.4 and PHAR 486.4

**Rationale:** Course changes to the MBA program have been approved for the 2024-2025 academic year but were not updated for this combined degree. The changes here reflect the approved changes to the MBA program. Changes also include a minor update from Pharmacy (addition of a zero-credit course).

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## **English**

### **Minor Program Revisions**

#### **English Master of Arts**

Removal of language requirement

#### **English Master of Arts (M.A.) - Thesis-based**

## Degree Requirements

Students must maintain continuous registration in [ENG 994.0](#) Research – Thesis.

- [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
- [ENG 990.0](#) Professional Development Seminar
- [ENG 994.0](#) Research – Thesis
- complete thesis and successful oral defence
- ~~language requirement~~

Minimum of 15 credit units of course work:

- [ENG 801.3](#) Introduction to Textual Scholarship
- a minimum of 12 additional credit units at 800-level

**Rationale:** The language requirement for the Master’s Thesis degree program is to be removed for the following reasons:

1. To bring the workloads of our M.A. degrees into closer relation.
2. To reflect current practices at comparator institutions.
  - Among the English-language U15 institutions, the only other Department of English with a language requirement for an M.A. program is UManitoba. (Laval is a bilingual institution; Montreal has a test “consisting of the translation of a short passage in French,” and only if this is failed would coursework be required.)
3. To thus make our Master’s Thesis program more competitive.
4. To streamline time to completion.

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## Johnson Shoyama Graduate School of Public Policy

### Minor Program Revisions

#### Master of Public Administration

Addition of new Internship Option

#### Master of Public Administration (M.P.A.) - Course-based

#### Degree Requirements (Internship Option)

Students in the M.P.A. program must achieve a minimum of 70% in each course to earn course credit and progress through program completion.

- GPS 960.0
- GPS 961.0, if research involves human subjects
- GPS 962.0, if research involves animal subjects

A minimum 36 credit units, including the following:

- JSGS 801.3
- JSGS 802.3
- JSGS 805.3



- JSGS 806.3
- JSGS 807.3
- JSGS 808.3
- JSGS 838.3
- JSGS 882.3
- JSGS 891.3
- JSGS 892.3
- JSGS 850.0 Internship Course
- a minimum 6 credit units electives. Elective courses taken outside of JSGS course offerings require approval of the Graduate Chair.

**Rationale:** The Johnson Shoyama Graduate School of Public Policy (JSGS) is proposing to make a minor program revision to the Master of Public Administration (MPA) program to **add an Internship concentration**.

The JSGS Executive Internship (JSGS 850) Program (EIP) has been around for the duration of the schools existence; 15 years. It is among the top reasons why international, and some domestic students lacking in public sector experience, select and apply to the JSGS MPA program.

International students participating in the JSGS EIP must apply to Immigration, Refugees and Citizenship Canada (IRCC) for a co-op/internship work permit and receive approval before starting their placement. IRCC now requires the internship be a mandatory component of the JSGS MPA program in order for international students to be eligible for a co-op/internship work permit. Unless, the internship (JSGS 850) is made a mandatory component of the JSGS MPA program, international students will be ineligible for a co-op/internship work permit. This would essentially exclude international students from participating in the JSGS Executive Internship Program.

By adding the Master of Public Administration (MPA) - Internship Program Concentration to the existing MPA program, JSGS 850 becomes a required course for completion of their MPA program. At such time that the student qualifies for, applies to and have secured an internship placement, they will be moved to the Master of Public Administration (MPA) – Internship Concentration. Once the student is switched to this route, JSGS 850 becomes mandatory thereby qualifying them to apply for a co-op/internship work permit, as required by IRCC’s policies.

## Items for Information

### Prerequisites and note changes

#### Animal Science

##### **ANSC 801: Animal Experimentation**

**Current Prerequisite(s):** PLSC 314.3 or equivalent **Proposed Prerequisite(s):** PLSC 214.3 or equivalent

**Rationale:** PLSC 314 is no longer offered. The undergraduate statistics class in the College is now PLSC 214.

## **Master of Business Administration**

### **MBA 825.3 — Financial Management**

**Current:** Prerequisite(s): MBA 885.3

**Proposed:** Prerequisite(s) or Corequisite(s): MBA 885.3

### **MBA 829.3 — Financial Statement Analysis**

**Current:** Prerequisite(s): MBA 885.3

**Proposed:** Prerequisite(s) or Corequisite(s): MBA 885.3

### **MBA 878.3 — International Business and Global Marketing**

**Current:** Prerequisite(s): MBA 885.3

**Proposed:** Prerequisite(s) or Corequisite(s): MBA 885.3

### **MBA 889.3 — Innovation Management**

**Current Note:** MBA 889 is to be taken in the final year of a student's program. Departmental permission is required for each registration.

**Proposed Note:** Students with credit for MBA 866.2 cannot take this course for credit.

## **Master of Professional Accounting (MPAcc)**

### **MPAC 831.3 — Strategy and Governance**

~~Note: Students with credit for MPAC 801.3 or MPAC 811.4 will not receive credit for this course.~~

### **MPAC 833.4 — Financial Reporting and Analysis**

~~Note: Students with credit for MPAC 803.4 or MPAC 813.4 will not receive credit for this course.~~

### **MPAC 835.3 — Assurance**

~~Note: Students with credit for MPAC 807.3 or MPAC 815.4 will not receive credit for this course.~~

### **MPAC 837.3 — Advanced Finance**

~~Note: Students with credit for MPAC 816.4 will not receive credit for this course.~~

### **MPAC 851.4 — Advanced Management Accounting**

**Current Prerequisite(s):** MPAC 831 or MPAC 811.

**Proposed Prerequisite(s):** MPAC 831

~~Note: Students with credit for MPAC 804 or MPAC 821 will not receive credit for this course.~~

### **MPAC 853.3 — Advanced Financial Reporting**

**Current Prerequisite(s):** MPAC 813 or MPAC 833.3.

**Proposed Prerequisite(s):** MPAC 833

~~Note: Students with credit for MPAC 812 or MPAC 823 will not receive credit for this course.~~

### **MPAC 855.3 — Advanced Assurance**

**Current Prerequisite(s):** MPAC 835 or MPAC 815.

**Proposed Prerequisite(s):** MPAC 835

~~Note: Students with credit for MPAC 806 or MPAC 825 will not receive credit for this course.~~

### **MPAC 891.3 — Integrative Capstone**

~~**Note:** Students with credit for MPAC 809 or MPAC 890 will not receive credit for this course.~~

**MPAcc Rationale:** All edits are removing pre-requisites to courses that no longer exist and are no longer relevant. Had a student taken a course with the old numbering, it would no longer fall within the timeframe needed to complete a master's degree and therefore count as credit.

### **Large Animal Clinical Sciences**

#### **VLAC 855.3: Advanced Equine Surgery I**

**Current Note:** Students with credit for VLAC 851 cannot receive credit for this course.

**Proposed Note:** n/a

#### **VLAC 857.3: Advanced Equine Surgery III**

**Current Note:** Students with credit for VLAC 853 cannot receive credit for this course.

**Proposed Note:** n/a

#### **VLAC 862.3: Field Epidemiology for Veterinarians**

**Current Note:** Students with credit for PUBH 809.3 may not take this course for credit.

**Proposed Note:** Students with credit for PUBH 809.3 may not take this course for credit. This course will not be offered every year and students can opt to take PUBH 809.3 instead.

#### **VLAC 875.3: Advanced Large Animal Internal Medicine**

**Current Note:** Students with credit for VLAC 873 and 874 may not receive credit for this course.

**Proposed Note:** n/a

### **Master of the Scholarship of Teaching and Learning**

#### **SoTL 803 Decoding Disciplinary Education: Signature Pedagogies, Threshold Concepts, and Troublesome Knowledge**

**Current course title:** Decoding Disciplinary Education: Signature Pedagogies, Threshold Concepts, and Troublesome Knowledge

**Proposed Course Title:** Reading Research in the Scholarship of Teaching and Learning

#### **SoTL 804 Research Experience in the Scholarship of Teaching and Learning**

**Current Prerequisite(s):** n/a

**Proposed Prerequisite(s):** SOTL 801

**Rationale for changes:** The learning outcomes in SoTL 801, 802, and 803 have been revised to better align with the content taught in each respective course. As such, the unit is proposing that:

- SoTL 803 be renamed to ensure its alignment with the revised learning outcomes and the actual content taught within the course.
- SoTL 801 be introduced as a prerequisite for SoTL 804.3, making it a mandatory course within the program.

### **Course Title and Calendar Description changes**

## **Agricultural Economics**

### **AREC 820.3 — Applied Microeconomic Theory**

**Current Description:** A study of the application of economic theory to production economics and consumer demand systems. The course links static micro economic theory to the behavior of economic systems. This course includes a survey on the choice of functional form, the application of duality, in demand theory and the use of Bayesian econometrics to impose inequality restrictions in system estimation. The course also examines several aspects of technological change and dynamic problems involving risk and uncertainty.

**Proposed Description:** A study of the application of economic theory to production economics and consumer demand systems. The course links static micro economic theory to the behavior of economic systems. This course includes a survey on the choice of functional form, the application of duality and other aspects related to econometric estimation. The course also examines aspects of welfare measurement, technological change and dynamic problems involving risk and uncertainty.

## **Animal and Poultry Science**

### **ANSC 815.3 — Advanced Ruminant Nutrition and Metabolism**

**Current Description:** Covers the impact that nutrition has on ruminant metabolism in order to maintain optimal production throughout the animal's life. The main emphasis is on dairy and beef cattle. The role of nutrition in the metabolism of the fetus, the calf from birth to puberty, and of the pregnant and the lactating cow is covered. Advances in feed and animal biotechnology that may improve the efficiency of production and have an impact on metabolism are discussed. Students will be assigned to a local dairy farm, cow-calf operation, or feedlot so that they can apply the knowledge gained in this course to a practical situation. Some tours will be given.

**Proposed Description:** Covers the impact that nutrition has on ruminant metabolism in order to maintain optimal production throughout the animal's life. The main emphasis is on dairy and beef cattle. The role of nutrition in the metabolism of the fetus, the calf from birth to puberty, and of the pregnant and the lactating cow is covered. Advances in feed and animal biotechnology that may improve the efficiency of production and have an impact on metabolism are discussed. Some tours will be given.

## **Anthropology**

### **ARCH 861.3 Boreal Forest Archaeology**

**Current Description:** This course will provide students with an advanced understanding of boreal forest archaeology in Canada, focusing on northern Saskatchewan and Alberta, as well as adjacent and/or relevant parts of British Columbia, Alaska, the Yukon, the Northwest Territories, Nunavut, and Manitoba. Readings will incorporate academic publications on these regions, but will also draw, as possible, from the extensive body of unpublished cultural resource management reports that have been generated as part of the ongoing industrial developments in northern Canada. This combination of resources will provide an up-to date picture of current knowledge regarding these regions' archaeology, with a particular focus on problems and progress in the creation of accurate and reliable culture histories. Discussion will focus on analyzing and synthesizing these bodies of literature in order to thoroughly examine the methodological and theoretical issues that have hampered the development of archaeological investigation in this region of the boreal forest.

**Proposed Description:** Provides students with an advanced understanding of boreal forest archaeology in Canada, primarily for northern Saskatchewan and Alberta. Discussion will focus on analyzing and synthesizing published and “grey” literature to thoroughly examine the methodological and theoretical issues that have hampered the development of archaeological investigation in the boreal forest.

### **ARCH 862.3 Environmental Archaeology**

**Current Description:** This course will provide students with an advanced understanding of paleoenvironmental research as it applies to archaeological investigation. Though the course will focus on the Northern Plains and/or Boreal Forest of Saskatchewan and surrounding areas, it will include examples derived from further afield, as required to provide a fuller understanding of the subject matter. Readings will predominately derive from widely available academic publications, but may also incorporate material from unpublished or narrowly circulated cultural resource management reports (“grey” literature). This combination of resources will provide an up-to-date picture of current knowledge regarding the use and application of paleoenvironmental research to archaeology, with a particular focus on problems and progress in the creation of palaeoenvironmental data at a scale and scope suitable for archaeological investigation. Discussion will focus on analyzing and synthesizing these bodies of literature in order to thoroughly examine the methodological and theoretical issues that have hampered the development of paleoenvironmental sequences at a scale and scope necessary to inform archaeological data on the Northern Plains and/or Boreal Forest.

**Proposed Description:** Provides students with an advanced understanding of paleoenvironmental research as it applies to archaeological investigation. The course will focus on, but is not limited to, the Northern Plains and Boreal Forest of Saskatchewan and neighbouring areas. The course will provide an up-to-date picture of current knowledge regarding the use and application of paleoenvironmental research to archaeology, with a particular focus on problems and progress in the creation of palaeoenvironmental data at a scale and scope suitable for archaeological investigation.

## **Biochemistry, Microbiology and Immunology**

### **BMIS 860.3 Seminar in Immunology**

**Current Title:** Seminar in Immunology

**Proposed Title:** Seminars in Infectious Diseases and Immunology

**Current Description:** Current research in infectious disease and immunology and related areas will be presented and discussed by students and faculty, alternating weekly. Each term, each credit student will present a seminar on a recent publication from the literature and submit a term paper critically analyzing and comparing the presented data with other published information on the subject.

**Proposed Description:** Current research in infectious disease and immunology will be presented and discussed weekly. Each term, each credit student will present a one-hour seminar on a review publication in one week and a one-hour seminar on a related, recent data paper from the literature in a second week. Each seminar will be followed by a one-hour discussion period between students and participating faculty. Non-presenting credit students will hand-in a one-page critical analysis of the manuscript prior to the start of each data paper seminar. Students will be assessed on comprehension and critical analysis of presented material, contribution to discussions and presentation skills.

**Current Prerequisite(s):** 3 credit units senior undergraduate and/or graduate courses in Immunology.

**Proposed Prerequisite(s):** Permission of the course instructor is required.

**Rationale:** The changes to this seminar-based course are mostly editorial. A new instructor has taken over delivery of BMIS 860. The change in the title (addition of “infectious diseases”) is reflective of the course content that will be focused on the host immunological responses to various infectious diseases

that are of current interest. The changes to the course description provides additional details as to how the course will be run and includes information on what students are responsible for on weeks that they are making presentations and not making presentations. The duration of the class has been increased from 1 to 2 hours per week. This is to provide sufficient time for each presentation and then subsequent discussion by students. The change in the prerequisite to “permission of the instructor” was to allow the instructor to determine if potential students have sufficient background to take the course. The background training of students in our program is sometimes difficult to assess simply by reviewing their transcripts for appropriate courses that could serve as prerequisites.

## **Community Health and Epidemiology**

### **CHEP 815.3 — Food Systems and Community Health**

**Current Description:** Community Health and Epidemiology 815 is an introductory graduate level course on food systems and community health. The emphasis is on understanding the links between the modern industrialized food system, its alternatives and community and population health. The course provides a critical introduction to food systems, both the dominant industrial one and its alternatives. The course will cover topics related to the environmental, social, and health impacts of food systems, and will provide real-world experiences that will allow students to contribute to an on-going food system initiative that aims to improve community health. Students will learn through lectures, small group exercises and presentations, class discussion, media, community-service learning and assignments.

**Proposed Description:** In this course, we examine the links between the modern industrialized food system, its alternatives and various aspects of community and population health. The course will cover topics related to the environmental, social, and health impacts of food systems, and will provide real-world experiences that will allow students to contribute to an on-going food system initiative that aims to improve community health. Students will learn through lectures, small group exercises and presentations, class discussion, media, community-service learning and assignments.

### **CHEP 818.3 — Advanced Qualitative Health Research Methods in Population and Public Health**

**Current Description:** This advanced course considers the perspective of qualitative health research as a distinct discipline, with methods that have been developed or adapted for this orientation. Students will work with one qualitative methodology of their choice throughout the term to consider its location in population and public health research.

**Proposed Description:** This course will consider how different qualitative methodologies have been, or may be, developed or adapted ontologically and epistemologically for applied health research questions. Students will work with one qualitative methodology of their choice throughout the term to consider its location in population and public health research.

### **CHEP 819.3 — Colonization and Its Impact on Indigenous Health and Healing**

**Current Description:** This course will delve into the historical and contemporary aspects of colonization, and the impact it has had on Indigenous health status. The historical context will be linked with the current reality, with a focus on what is positive and valuable about indigenous culture and its healing practices.

**Proposed Description:** This course will delve into the historical and contemporary aspects of colonization, and the impact it has on Indigenous People’s health status. The historical context will be linked with the current reality, with a strength-based focus on Indigenous People’s culture and healing

practices. Privilege and power of those who benefit from colonization and colonial systems will also be explored.

## **Large Animal Clinical Sciences**

### **VLAC 809.9: Field Epidemiology Competencies I**

**Current Description:** This course provides applied epidemiology training for graduate students enrolled in the first year of field epidemiology focused project-based (non-thesis) MSc degree. The goal is to prepare students through applied opportunities to master skills in applied epidemiology and complete the required list of competency outcomes. In addition to field training opportunities, students will receive formal and informal instruction in the form of weekly epidemiologic rounds in conjunction with other Field Epidemiology Training Program (FETP) groups across North America (human health focused). Grading is based on the graduate students' completion of the required competencies, their participation and performance in structured learning opportunities and their ability to communicate appropriately with peers, veterinarians, and the lay public involved in outbreak investigations.

**Proposed Description:** This course provides applied epidemiology training for graduate students enrolled in the first year of field epidemiology focused project-based (non-thesis) MSc degree. The goal is to prepare students through applied opportunities to master skills in applied epidemiology and complete the required list of competency outcomes; surveillance, risk communication and dataset analysis. Grading is based on the graduate students' completion of the required competencies, their participation and performance in structured learning opportunities and their ability to communicate appropriately with peers, veterinarians, and the lay public involved in outbreak investigations.

### **VLAC 810.9: Field Epidemiology Competencies II**

**Current Description:** This course provides applied epidemiology training for graduate students enrolled in the second year of field epidemiology focused project-based (non-thesis) MSc degree. The goal is to prepare students through applied opportunities to master skills in applied epidemiology and complete the required list of competency outcomes. In addition to field training opportunities, students will receive formal and informal instruction in the form of weekly epidemiologic rounds in conjunction with other Field Epidemiology Training Program (FETP) groups across North America (human health focused). Grading is based on the graduate students' completion of the required competencies, their participation and performance in structured learning opportunities and their ability to communicate appropriately with peers, veterinarians, and the lay public involved in outbreak investigations.

**Proposed Description:** This course provides applied epidemiology training for graduate students enrolled in the second year of field epidemiology focused project-based (non-thesis) MSc degree. The goal is to prepare students through applied opportunities to master skills in applied epidemiology and complete the required list of competency outcomes; surveillance, risk communication and dataset analysis. Grading is based on the graduate students' completion of the required competencies, their participation and performance in structured learning opportunities and their ability to communicate appropriately with peers, veterinarians, and the lay public involved in outbreak investigations.

### **VLAC 811.1: Clinical Trial Design**

**Current Description:** This is an introductory graduate course for clinicians and clinical researchers who need a basic understanding of clinical trial design and clinical epidemiology in order to carry out their own research. The course will cover areas of clinical trial design, critically appraising and understanding clinical trials.

**Proposed Description:** This is an introductory graduate course for clinicians and clinical researchers who need a basic understanding of clinical trial design/experimental design to carry out their own clinical

research. The course will cover important aspects of designing clinical trials, including appropriate reporting of clinical trials.

### **VLAC 812.2: Statistics for Clinical Research**

**Current Description:** This is an introductory graduate course for clinicians and clinical researchers who need a basic understanding of clinical statistics and clinical epidemiology in order to carry out their own research. The course will cover areas of applied medical statistics. Common parametric and non-parametric statistical tests that are used in medical research will be presented and used.

**Proposed Description:** This is an introductory graduate course for clinicians and clinical researchers who need a basic understanding of clinical statistics and clinical epidemiology to carry out their own research. The course will cover areas of applied medical statistics. Common parametric and non-parametric statistical tests that are used in medical research will be presented and used.

**Current Prerequisite(s) or Corequisite(s):** Completion of Clinical Trial Design (VLAC 811.1) or enrollment/completion of Introduction to Veterinary Epidemiology (VLAC 808.3) or permission from the instructor.

**Proposed Prerequisite(s) or Corequisite(s):** Completion of Clinical Trial Design (VLAC 811.1) or enrollment/completion of Introduction to Veterinary Epidemiology (VLAC 808.3) and permission from the instructor.

### **VLAC 813.1: Advanced Statistics for Research**

**Current Description:** This is an advanced graduate course for veterinary epidemiology students, clinicians and clinical researchers who need an advanced understanding of clinical and epidemiology statistics in order to carry out their own research. The course will cover topics of advanced applied medical statistics. Common advanced parametric (and nonparametric or Bayesian) statistical tests that are used in medical research will be presented and used.

**Proposed Description:** This is an advanced graduate course for clinicians, epidemiology and clinical researchers who need more advanced knowledge of statistical techniques to carry out their own research. Advanced parametric and non-parametric statistical tests for more complex research designs will be presented.

**Current Prerequisite(s):** Completion of VLAC 812.2 Statistics for Clinical Research or permission of the instructor.

**Proposed Prerequisite(s):** Completion of Statistics for Clinical Research (VLAC 812) and permission from the instructor.

### **VLAC 863.3: Advanced Veterinary Epidemiology**

**Current Description:** This course will provide advanced training in the design and analysis of observational research in veterinary epidemiology and the application and assessment of veterinary diagnostics to manage disease in populations. The course will also introduce the statistical challenges and basic tools for analyzing data from groups of animals.

**Proposed Description:** This course will provide advanced training in the design and analysis of observational research in veterinary epidemiology and the application and assessment of veterinary diagnostics to manage disease in populations. The course will include interpretation of data, hands on practical experience in data analysis, statistical challenges and tools for analyzing data in groups of animals.

## **Nursing**



### **NURS 813.3 Teaching in Nursing**

**Current Description:** Surveys issues, trends, and methods of nursing education. An examination of the nature of instruction in nursing education, staff development programs, and patient teaching is the main focus.

**Proposed Description:** Examines the varied roles of education within nursing, and the nature of teaching within diverse contexts. The course includes an emphasis on learner and context analysis for the purposes of selecting strategies and creating learning materials that meet the needs of learners and programs.

**Rationale:** The course has shifted from a focus on nursing education to being a nurse educator in any field or context. Students will learn skills to be able to fulfill a teaching role wherever they are working (bedside, academia, community health).

### **Veterinary Pathology**

#### **VTPA 810.3 Clinical Hematology**

**Current Description:** Presented biennially in lecture and seminar format and utilizing current literature. Assigned reading, and presentation of selected hematology topics are integral to this course. Case material may be used to emphasize pathophysiologic mechanisms.

**Proposed Description:** Presented biennially in seminar format, this course provides an in-depth study of the hematopoietic system and hematological changes associated with disease states. Students will present selected hematology topics with an emphasis on current literature and participate in the description and discussion of a set of hematology slides.

#### **VTPA 811.3 Clinical Chemistry**

**Current Description:** Presented biennially in lecture and seminar format and utilizing current literature. Assigned reading and presentation of selected clinical chemistry topics are integral to this course. Methodology and quality assurance are important components of this course. Case material may be used to emphasize pathophysiologic mechanisms.

**Proposed Description:** Presented biennially in seminar format, this course provides an in-depth study of clinical biochemistry with an emphasis on methodology and quality assurance. Students will present selected biochemistry topics highlighting current literature and participate in the description and discussion of clinical case material.

### **Catalogue Preamble**

#### **Master of Business Administration**

Leading to a professional general management graduate degree, the Edwards MBA's intensive and highly integrated format will develop management ability in an applied and useful way. A student will learn the people skills of management: how to manage oneself and others; how to communicate effectively; how to lead. The Edwards MBA is a highly integrated program designed to meet the needs of individuals whose undergraduate education has been in either business or academic disciplines other than business, and whose future careers are likely to involve managerial activities.

The Edwards MBA can be completed in only 12 months if taken full time, or part time in up to 36 months. A decidedly unique aspect of this innovative MBA program is the focused learning and integration of business concepts. Each course is offered consecutively in a modular format. Courses are scheduled in three-week durations creating an intensive learning environment that immerses students

in the subject area while allowing flexibility in scheduling your MBA education. Furthermore, our students learn how business concepts are integrated into business decisions through a combination of applied courses, exercises, case studies and projects incorporating each functional business area.

The Edwards MBA Program offers an optional Internship Program to those Edwards MBA students hoping to gain relevant work experience in their field of interest. The program consists of two four-month work terms starting in January of the first year of study. As an internship student who secures a work placement (placements are not guaranteed), you will register in two permission-only MBA courses ([MBA 879.0](#) Edwards MBA Internship Program Part I and [MBA 882.0](#) Edwards MBA Internship Program Part II), and will be a paid, full-time employee gaining meaningful work experience related to your area of study. [Learn More!](#)

~~A unique opportunity exists for students to complete the M.B.A. and M.D. degrees concurrently. This opportunity is available to students accepted into the College of Medicine, allowing them to apply to and if accepted, complete an M.B.A. degree in addition to the M.D. degree. For further information on the M.B.A. admission and program requirements, please see below. For further information on the College of Medicine admission and program requirements please visit the [College of Medicine website](#) and the M.D. section of this Catalogue.~~

~~We offer the opportunity for students to complete the M.B.A. concurrently with degrees in Medicine (M.D), Dentistry (DMD) and Veterinary Medicine (Vet Med). This opportunity is available to students accepted into those respective colleges. For further information on the M.B.A. admission and program requirements, please see below. For further information on the College of Medicine, Dentistry and Vet Med admission and program requirements please visit the [College of Medicine](#), [College of Dentistry](#), and [Western College of Veterinary Medicine](#) websites and the M.D., DMD, and Vet Med sections of this Catalogue.~~

Prospective students seeking more information about the Master of Business Administration program at the Edwards School of Business are invited to visit the Edwards MBA website at [www.edwardsmba.ca](http://www.edwardsmba.ca) or e-mail [mba@edwards.usask.ca](mailto:mba@edwards.usask.ca).

All courses are offered at the Edwards School of Business.

### **Archaeology Master of Arts (M.A.) – Thesis Based**

**Current Catalogue Preamble:** The Department of Archaeology & Anthropology offers a graduate program leading to the degree of Master of Arts in Archaeology. Students wishing to register in the program should consult with the Head of the Department and the graduate advisor as early as possible in advance of the regular academic session. The graduate program has been designed to provide flexibility in the choice of courses and research topics within the capacity of the department's resources. An applicant must hold a four-year honours degree or equivalent degree in archaeology, anthropology or an academic discipline relevant to the proposed field of study. Students with Honours degrees in other disciplines are encouraged to apply, but they will be required to do qualifying course work. The admission prerequisites are: (1) substantial course work in the area of declared research interest; and (2) a course in archaeological method and theory. Archaeology is considered a major field of study, but each applicant must declare an area of concentration. Applicants are strongly encouraged to identify the topic area in which they wish to do their thesis research so that a thesis supervisor can be assigned

when the applicant is accepted. The course requirements consist of 12 credit units at the graduate level, which must include ARCH 805.3. Other courses are chosen in consultation with the student's supervisory committee. Some of these courses may be taken from cognate fields outside the department. For more information on this field of study, see the [Department of Archaeology and Anthropology](#) website.

**Proposed Catalogue preamble:** The Department of Anthropology offers a graduate program leading to the degree of Master of Arts in Archaeology. Admittance to the program is by application only. Students interested in applying should consult in advance with the Graduate Chair or potential supervisor (faculty member who would supervise the student's MA research). The graduate program has been designed to provide flexibility in the choice of courses and research topics within the capacity of the department's resources. An applicant must hold a four-year honours degree or equivalent degree in archaeology, anthropology or an academic discipline relevant to the proposed field of study. Students with Honours degrees in other disciplines may apply, but they may be required to do qualifying course work. Archaeology is considered the major field of study, but applicants are strongly encouraged to identify the topic area in which they wish to do their thesis research so that a thesis supervisor can be assigned when the applicant is accepted. The course requirements consist of 12 credit units at the graduate level, which must include ARCH 805.3. Other courses are chosen in consultation with the student's supervisory committee. Some of these courses may be taken from cognate fields outside the department.

For more information on this field of study, see the [Department of Anthropology](#) website.

### **Anthropology Masters of Art (M.A.) – Thesis Based and Project Based**

**Current Catalogue Preamble:** The Department of Archaeology & Anthropology offers graduate programs leading to the degree of Master of Arts in Anthropology. The Master's thesis program emphasizes two streams: medical anthropology and environmental anthropology, while the project-based program offers a concentration in practicing anthropology. Students wishing to register in the program should consult with the Head of the Department and the graduate advisor as early as possible in advance of the regular academic session. The graduate program has been designed to provide some flexibility in the choice of courses and research topics within the capacity of the department's resources. An applicant should hold a four-year honours degree, equivalent degree in anthropology or an academic discipline relevant to the proposed field of study. Students with Honours degrees in disciplines other than anthropology are encouraged to apply, but they may be required to do qualifying or additional course work

For more information on this field of study, see the [Department of Archaeology and Anthropology](#) website.

**Proposed Catalogue Preamble:** The Department of Anthropology offers graduate programs leading to the degree of Master of Arts in Anthropology. The Master's thesis program emphasizes two streams: medical anthropology and environmental anthropology, while the project-based program offers a concentration in practicing anthropology. Students interested in applying to the program should consult in advance with the Graduate Chair or potential supervisor (faculty member who would supervise the student's MA research). The graduate program has been designed to provide some flexibility in the choice of courses and research topics within the capacity of the department's resources. An applicant

should hold a four-year honours degree, equivalent degree in anthropology or an academic discipline relevant to the proposed field of study. Students with Honours degrees in disciplines other than anthropology may apply, but they may be required to do qualifying or additional course work

For more information on this field of study, see the [Department of Anthropology](#) website.

## **College of Law: University Course Challenge, November 2023**

The following changes were approved by the College of Law and are being submitted here for approval:

### **Minor Program Revision**

Two new courses, LAW 306.3 *Law Foundation of Saskatchewan Chair Seminar* and LAW 309.3 *Estey Chair in Business Law Seminar* were approved through the October 2023 University Course Challenge but were inadvertently missed being added to the J.D. program requirements. They are as follows in red:

### **Juris Doctor (J.D.) (90 credit units)**

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

#### **Year 2 and Year 3 (60 credit units)**

Students must register in **15 credit units** per term. Students must receive a grade of 60% or better in each of Minor Research Paper, Major Research Paper, and the seminar requirement, to receive credit for the research paper requirements or the seminar requirement.

#### **The following course is required in Year 2:**

- [LAW 340.3](#) Administrative Law I

#### **The following courses are required in either Year 2 or Year 3:**

- [LAW 421.3](#) Legal Ethics and Professionalism or [LAW 497.3](#) Legal Ethics Clinical Seminar\*

Students must complete **3 credit units** from the following list of upper-year Indigenous Law courses, or equivalent, as approved by the Associate Dean, Academic:

- [LAW 308.3](#) Global Indigenous Rights and Resource Development
- [LAW 313.3](#) Selected Topics in Indigenous Legal Studies
- [LAW 341.3](#) First Nations Economic Development
- [LAW 422.3](#) Indigenous Legal Processes
- [LAW 436.3](#) Aboriginal Law
- [LAW 443.3](#) Indigenous Peoples and the Criminal Process
- [LAW 447.3](#) Aboriginal Rights Moot
- [LAW 453.3](#) Aboriginal Law and Policy in Canada
- LAW 473.3
- LAW 479.3
- LAW 480.3 Indigenous Peoples in International and Comparative Law

Remaining LAW courses to complete the **90 credit units** are to be selected by students from offered LAW courses:

- [LAW — 300-Level, 400-Level](#)

**Note:** Students must complete a minimum of **3 credit units** from the following list of Seminar Classes or equivalent, as approved by the Associate Dean, Academic (Year 2 or Year 3). The Seminar Class may meet more than one requirement. Choices are as follows:

- [LAW 305.3](#) Clinical Law
- [LAW 306.3](#) Law Foundafion of Saskatchewan Chair Seminar
- [LAW 309.3](#) Estey Chair in Business Law Seminar
- [LAW 341.3](#) First Nations Economic Development
- [LAW 349.3](#) Housing Homelessness and the Law
- LAW 393.3
- LAW 400.3
- [LAW 405.3](#) Advanced Criminal Law
- [LAW 406.3](#) Law and Culture
- [LAW 413.3](#) Current Issues in Law Reform
- [LAW 414.3](#) Access to Justice and the Institutions of Justice
- [LAW 416.3](#) Elder Law
- [LAW 418.3](#) Sexual Assault
- [LAW 420.3](#) Current Issues in Insolvency
- [LAW 422.3](#) Indigenous Legal Processes
- [LAW 424.3](#) Sports Law
- [LAW 426.3](#) Advanced Secured Transactions
- LAW 429.3
- [LAW 431.3](#) Advanced Constitutional Law
- [LAW 432.3](#) Human Rights
- [LAW 433.3](#) Sallows Human Rights Seminar
- [LAW 435.3](#) Law and Economics
- [LAW 438.3](#) Economic Inequality Poverty and the Law
- [LAW 442.3](#) Refugee Law
- [LAW 443.3](#) Indigenous Peoples and the Criminal Process
- [LAW 446.3](#) Natural Resources Law
- [LAW 453.3](#) Aboriginal Law and Policy in Canada
- [LAW 458.3](#) Advanced Health Law
- [LAW 463.3](#) Fiduciary Obligations
- [LAW 465.3](#) Law Development and the International System
- [LAW 466.3](#) Youth Criminal Justice
- [LAW 468.3](#) Advanced Family Law
- LAW 470.3
- LAW 473.3
- [LAW 474.3](#) Children and Law
- LAW 479.3
- LAW 480.3
- [LAW 481.3](#) Business Regulation
- [LAW 482.3](#) Criminal Intensive Seminar
- LAW 485.3
- [LAW 486.3](#) Law and Psychiatry
- LAW 488.3
- [LAW 491.3](#) Clinical Law Seminar

- LAW 493.3
- [LAW 494.3](#) Prison Law and Human Rights
- [LAW 497.3](#) Legal Ethics Clinical Seminar

**Please note the following:**

- In special cases, a student may be given permission by the Associate Dean, Academic to undertake a program involving a load in excess of 15 credit units.
- Students may be permitted to take a maximum of 6 credit units given by another College, during second and third year, for credit in the College of Law. The course(s) must be approved by the Associate Dean, Academic. Applications are assessed from the standpoint of how the outside senior-level course contributes to the applicant's understanding of the law.

\*Students who choose to complete [LAW 497.3](#) Legal Ethics Clinical Seminar must complete [LAW 492.12](#) Clinical Law Practicum concurrently. [LAW 492.12](#) Clinical Law Practicum will be counted toward the 15 credit unit course load per term required in Years 2 and 3.

## University Course Challenge – November 2023

The following curricular changes were approved by the College of Pharmacy and Nutrition - Nutrition Program Advisory Committee and Division of Nutrition and are being submitted to the November 2023 course challenge for approval.

Contact: Dr. Charity Evans ([charity.evans@usask.ca](mailto:charity.evans@usask.ca))

### NUTRITION

#### New Courses

##### **NUTR 191.0**

Title: Interprofessional Education (IPE) Activities

Students will participate in problem-based learning tutorials, case studies, and other Interprofessional activities with students from other health science colleges. These activities are structured around the six competency domains required for Interprofessional collaboration: 1) interprofessional communication; 2) patient/client/family/community-centred care; 3) role clarification; 4) team functioning 5) collaborative leadership and 6) interprofessional conflict resolution.

Restriction(s): Admission to Year 1 of the B.Sc.(Nutr.) Program.

##### **NUTR 192.0**

Title: Interprofessional Education (IPE) Activities

Students will participate in problem-based learning tutorials, case studies, and other Interprofessional activities with students from other health science colleges. These activities are structured around the six competency domains required for Interprofessional collaboration: 1) interprofessional communication; 2) patient/client/family/community-centred care; 3) role clarification; 4) team functioning 5) collaborative leadership and 6) interprofessional conflict resolution.

Restriction(s): Admission to Year 1 of the B.Sc.(Nutr.) Program.

##### **NUTR 291.0**

Title: Interprofessional Education (IPE) Activities

Students will participate in problem-based learning tutorials, case studies, and other Interprofessional activities with students from other health science colleges. These activities are structured around the six competency domains required for Interprofessional collaboration: 1) interprofessional communication; 2) patient/client/family/community-centred care; 3) role clarification; 4) team functioning 5) collaborative leadership and 6) interprofessional conflict resolution.

Restriction(s): Only open to students enrolled in Year 2 of the B.Sc.(Nutr.) Program.

##### **NUTR 292.0**

Title: Interprofessional Education (IPE) Activities

Students will participate in problem-based learning tutorials, case studies, and other Interprofessional activities with students from other health science colleges. These activities are structured around the six competency domains required for Interprofessional collaboration: 1) interprofessional communication; 2) patient/client/family/community-centred care; 3) role clarification; 4) team functioning 5) collaborative leadership and 6) interprofessional conflict resolution.

Restriction(s): Only open to students enrolled in Year 2 of the B.Sc.(Nutr.) Program.

##### **NUTR 391.0**

Title: Interprofessional Education (IPE) Activities



Students will participate in problem-based learning tutorials, case studies, and other Interprofessional activities with students from other health science colleges. These activities are structured around the six competency domains required for Interprofessional collaboration: 1) interprofessional communication; 2) patient/client/family/community-centred care; 3) role clarification; 4) team functioning 5) collaborative leadership and 6) interprofessional conflict resolution.

Restriction(s): Only open to students enrolled in Year 3 of the B.Sc.(Nutr.) Program.

### **NUTR 392.0**

Title: Interprofessional Education (IPE) Activities

Students will participate in problem-based learning tutorials, case studies, and other Interprofessional activities with students from other health science colleges. These activities are structured around the six competency domains required for Interprofessional collaboration: 1) interprofessional communication; 2) patient/client/family/community-centred care; 3) role clarification; 4) team functioning 5) collaborative leadership and 6) interprofessional conflict resolution.

Restriction(s): Only open to students enrolled in Year 3 of the B.Sc.(Nutr.) Program.

### **NUTR 533.6**

Title: Nutrition Care I

Students will begin to use the Nutrition Care Process to provide individualized care to patients, residents, and clients in a variety of healthcare settings including acute care, long-term care, outpatient and primary care. Students will deliver nutrition care and medical nutrition therapy by conducting nutrition assessments, determining nutrition diagnoses, planning nutrition interventions, and monitoring and evaluating achievement of nutrition goals.

Restriction(s): Only open to students enrolled in Year 4 of the BSc(Nutr) program

### **NUTR 534.6**

Title: Nutrition Care II

Students will work with patients, residents, and clients with higher medical acuity, and/or requiring more complex and/or specialized medical care and treatment. They will use the Nutrition Care Process to provide individualized care to patients, residents, and clients in a variety of healthcare settings including acute care, long-term care, outpatient and primary care. Students will deliver nutrition care and medical nutrition therapy by conducting nutrition assessments, determining nutrition diagnoses, planning nutrition interventions, and monitoring and evaluating achievement of nutrition goals. Students will progressively manage an increasing caseload and complete staff relief to demonstrate entry-level dietetic competence.

Restriction(s): Only open to students enrolled in Year 4 of the BSc(Nutr) program

### **NUTR 535.6**

Title: Food Provision Management and Leadership

Students will manage quantity food provision to support health. Students will gain experience in a variety of food provision and management situations, including determining food provision requirements of a group/organization, planning, managing and evaluating institutional food provision, and foodservice staff management and supervision. Students will work on quality improvement projects to meet operational needs. Students will demonstrate entry-level dietetic competence in food service production, staff training, quality improvement and financial management. Students will apply skills learned in Years 1-3 courses, and are expected to participate and contribute meaningfully, productively, and safely to direct patient care and dietetic practice.

Prerequisite(s): NUTR 366

Restriction(s): Only open to students enrolled in Year 4 of the BSc(Nutr) program

### **NUTR 536.6**

Title: Population Health Promotion

Students will learn the role of dietitians in health promotion, assess food and nutrition needs within communities and populations, and collaborate in planning to promote health. Students will work on projects to address complex intersectoral health issues such as food security and health equity. Students will work in interprofessional teams and engage with community members and stakeholders to plan and prioritize actions to address community health. Students will demonstrate entry-level dietetic competence in population health promotion. Students will apply skills learned in Years 1-3 courses, and are expected to participate and contribute meaningfully, productively, and safely to direct patient care and dietetic practice.

Restriction(s): Only open to students enrolled in Year 4 of the BSc(Nutr) program

### **NUTR 537.3**

Title: Dietetic Research

Students will complete required orientation and training for practicum placement within the Saskatchewan Health Authority and other agencies. Students will participate in food, nutrition, and dietetic education sessions and complete a variety of activities and assignments to achieve the Integrated Competencies for Dietetic Education and Practice. Students will apply skills learned in Years 1-3 courses, and are expected to participate and contribute meaningfully, productively, and safely to direct patient care and dietetic practice.

Restriction(s): Only open to students enrolled in Year 4 of the BSc(Nutr) program

### **NUTR 538.3**

Title: Selected Topics in Practical Dietetic Education and Training

Students will complete required orientation and training for practicum placement within the Saskatchewan Health Authority and other agencies. Students will participate in food, nutrition, and dietetic education sessions and complete a variety of activities and assignments to achieve the Integrated Competencies for Dietetic Education and Practice. Students will apply skills learned in Years 1-3 courses, and are expected to participate and contribute meaningfully, productively, and safely to direct patient care and dietetic practice.

Restriction(s): Only open to students enrolled in Year 4 of the BSc(Nutr) program

### **Rationale:**

- 1) Interprofessional Education (IPE) activities are already occurring within the BSc(Nutr) curriculum. However, they are included in various Nutrition courses, which makes it difficult for students to keep track of and faculty/instructors to administer. By creating a separate course specific to IPE activities, it will highlight the importance of the activities to students and allow for more efficient administration.
- 2) For the new NUTR courses replacing NUTR 531.30, all practicum experiences are already part of the current NUTR 531.30 course. We are breaking the larger course into smaller individual courses for more efficient administration at the College and University level. There are no changes to the required competencies, assessments, or learning objectives from the previous NUTR 531 course.
- 3) COMM 102.3 is no longer being offered by Edwards School of Business and has been replaced with COMM 101.3 (approved at October 2023 UCC).

The curriculum changes will be implemented in 2024-25.

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

## Year 1

### 33 credit units

- [BMSC 200.3](#) Biomolecules
- [BMSC 207.3](#) Human Body Systems I and [BMSC 208.3](#) Human Body Systems II (formerly [PHSI 208.6](#))
- [BMSC 230.3](#) Metabolism
- ~~[COMM 102.3](#) Introduction to Business Management~~ [COMM 101.3](#) Introduction to Business
- [FABS 110.3](#) The Science of Food
- [NUTR 120.3](#) Basic Nutrition
- NUTR 190.0 Introduction to the B.Sc.(Nutr.) Program
- [NUTR 191.0](#) IPE Activities
- [NUTR 192.0](#) IPE Activities
- [NUTR 221.3](#) Advanced Nutrition Micronutrients
- [NUTR 230.3](#) Professional Practice I
- [PLSC 214.3](#) Statistical Methods
- Basic food safety training certificate

### Unrestricted Electives

- Choose 3 credit units of unrestricted electives

## Year 2

### 36 credit units

- [BMSC 210.3](#) Microbiology
- [NUTR 210.3](#) Food Fundamentals and Preparation
- [NUTR 291.0](#) IPE Activities
- [NUTR 292.0](#) IPE Activities
- [NUTR 305.3](#) Research Methods
- [NUTR 310.3](#) Food Culture and Human Nutrition
- [NUTR 321.3](#) Advanced Nutrition Macronutrients and Energy
- [NUTR 322.3](#) Nutrition Throughout the Lifespan
- [NUTR 330.3](#) Professional Practice II
- [NUTR 350.3](#) Introduction to Public Health and Community Nutrition
- [NUTR 365.3](#) Quantity Food Production and Service
- [NUTR 366.3](#) Food Service Management Practicum\*
- [PATH 205.3](#) Survey of Pathology
- ~~Successful completion of Speechcraft (Public Speaking Certificate)~~

\*offered in Spring and Summer terms

### Unrestricted Electives

- Choose 3 credit units of unrestricted electives

## Year 3

### 33 credit units

- [COMM 201.3](#) Introduction to Financial Accounting
- [NUTR 391.0](#) IPE Activities
- [NUTR 392.0](#) IPE Activities
- [NUTR 420.3](#) Current Issues in Nutrition
- [NUTR 425.3](#) Nutritional Assessment
- [NUTR 430.3](#) Professional Practice III
- [NUTR 441.3](#) Clinical Nutrition I

- [NUTR 442.3](#) Clinical Nutrition II
- [NUTR 450.3](#) Nutrition Program Planning and Evaluation
- [NUTR 466.3](#) Organization and Management of Nutrition Services
- Advanced food safety training instruction

#### **Unrestricted Electives**

- Choose 9 credit units of unrestricted electives

#### **Year 4**

#### **30 credit units**

- ~~NUTR 531.30 Professional Practice IV~~
- NUTR 533.6 Nutrition Care I
- NUTR 534.6 Nutrition Care II
- NUTR 535.6 Food Provision Management and Leadership
- NUTR 536.6 Population Health Promotion
- NUTR 537.3 Dietetic Research
- NUTR 538.3 Selected Topics in Practical Dietetic Education and Training
- ~~Successful completion of the practicum~~

#### **Minor Course Revisions**

The following curricular changes were approved by the Nutrition Program Advisory Committee and are being submitted to the November 2023 University Course Challenge, as follows. Several of the changes are noted below for information only.

The following changes are in response to some minor changes made in the course content throughout the years to meet accreditation requirements. These changes will also provide the flexibility for the instructor to approve student override requests, when deemed appropriate, without students necessarily having completed the prerequisites or corequisites as listed.

#### **NUTR 221.3 Advanced Nutrition Micronutrients**

Current:

Corequisite(s): NUTR 120; BMSC 230; and PHSI 208 or BMSC 207 and 208; or permission of the instructor

New:

Prerequisite(s): NUTR 120

Prerequisite(s) or Corequisite(s): BMSC 230; and PHSI 208 or BMSC 207 and 208; or permission of the instructor

#### **NUTR 305.3 Research Methods**

Current:

Prerequisite(s) or Corequisite(s): NUTR 221 and PLSC 214; or permission of the instructor

New:

Prerequisite(s): NUTR 120 and PLSC 214 or equivalent; or permission of the instructor

#### **NUTR 310.3 Food Culture and Human Nutrition**

Current:

Prerequisite(s): NUTR 221; or permission of the instructor

New:

Prerequisite(s): NUTR 120; or permission of the instructor

#### **NUTR 321.3 Advanced Nutrition Macronutrients and Energy**

Current:

Corequisite(s) or Prerequisite(s): NUTR 120; BMSC 230; and PHSI 208 or BMSC 207 and 208; or permission of the instructor.

New:

Prerequisite(s): NUTR 120; BMSC 230; and PHSI 208 or BMSC 207 and 208; or permission of the instructor.

### **NUTR 322.3 Nutrition Throughout the Lifespan**

Current:

Prerequisite(s): NUTR 221; or permission of the instructor

New:

Prerequisite(s): NUTR 120; BMSC 230; BMSC 207 and 208; or permission of the instructor.

### **NUTR 350.3 Introduction to Public Health and Community Nutrition**

Current:

Prerequisite(s) or Corequisite(s): NUTR 322; or permission of the instructor.

New:

Prerequisite(s) or Corequisite(s): NUTR 305; or permission of the instructor.

### **NUTR 420.3 Current Issues in Nutrition**

Current:

Prerequisite(s) or Corequisite(s): NUTR 221; NUTR 321; or permission of the instructor

New:

Prerequisite(s) or Corequisite(s): One 300-level NUTR course; and permission of the instructor.

### **Items for Information**

The following course changes only involve students enrolled in the B.Sc.(Nutr.) program. As such, they are being submitted here for information:

### **NUTR 330.3 Professional Practice II**

Remove:

Prerequisite(s): NUTR 230

### **NUTR 425.3 Nutritional Assessment**

Remove:

Corequisite(s): NUTR 441.3

### **NUTR 441.3 Clinical Nutrition I**

Remove:

Prerequisite(s) or Corequisite(s): NUTR 425.3

### **NUTR 450.3 Nutrition Program Planning and Evaluation**

Remove:

Prerequisite(s): NUTR 350

### **NUTR 466.3 Organization and Management of Nutrition Services**

Remove:

Prerequisite(s) or Corequisite(s): NUTR 365; NUTR 366; COMM 102 or COMM 101

## **PHARMACY**

### **Items for Information**

The following course changes only involve students enrolled in the Doctor of Pharmacy program. As such, they are being submitted here for information:

#### **PHAR 185.4**

Old Title:

Experiential Learning Introductory Community Pharmacy Practice Experience

New Title:

Experiential Learning – Introductory Pharmacy Practice Experience: Community

#### **PHAR 285.4**

Old Title:

Experiential Learning Hospital Pharmacy Practice Experience

New Title:

Experiential Learning – Introductory Pharmacy Practice Experience: Hospital

#### **PHAR 481.8**

Old Title:

Advanced Practice Experience 1: Acute Care (Hospital) Experience

New Title:

Experiential Learning – Advanced Pharmacy Practice Experience 1: Hospital

#### **PHAR 482.8**

Old Title:

Advanced Practice Experience 2: Community Pharmacy Experience

New Title:

Experiential Learning – Advanced Pharmacy Practice Experience 2: Community

#### **PHAR 483.8**

Old Title:

Advanced Practice Experience 3: Other Direct Patient Care Experience

New Title:

Experiential Learning – Advanced Pharmacy Practice Experience 3: Other Direct Patient Care

#### **PHAR 484.8**

Old Title:

Advanced Practice Experience 4: Elective Practice Experience

New Title:

Experiential Learning – Advanced Pharmacy Practice Experience 4: Elective Practice

## Edwards School of Business – November 2023 University Course Challenge

### Item For Information

The following is a clarification to a change approved through the October 2023 University Course Challenge. The addition in red will be added to the catalogue for clarity's sake:

### International Business Minor

The International Business minor provides business students with an opportunity to increase their awareness of the international business environment and better prepare them for a career in international business. Students who, in conjunction with a Bachelor of Commerce degree in a different subject, take 18 credit units or more of the course requirements below, will receive a minor in International Business.

The minor average in International Business will be calculated using the grades earned in all courses eligible to be included in the minor program requirements. Students must complete 9 credit units using courses offered by the University of Saskatchewan to meet the Residency requirement. Students will be required to complete 9 credit units with an international partner institution while on a study abroad term or partaking in a summer program.

Students interested in pursuing the International Business minor should meet with an advisor in the Edwards School of Business to discuss program requirements and funding opportunities for study abroad.

## Program Requirements (18 credit units)

- [COMM 340.3](#) Introduction to International Business

## University of Saskatchewan Electives (6 credit units)

Choose 6 credit units from the following:

- [COMM 456.3](#) International Marketing
- [COMM 466.3](#) International Business Finance
- [COMM 485.3](#)
- [COMM 495.3](#) Supply Chain Management
- [COMM 498.3](#) Special Topics Global Strategy & Organizational Design Topic
- [ECON 254.3](#) International Trading System
- [ECON 256.3](#) International Monetary System
- [ECON 270.3](#) Development in Non Industrialized Countries

- [ECON 354.3](#) International Trade and Commercial Policy
- [ECON 356.3](#) International Monetary Economics
- [ECON 376.3](#) Energy Economics
- IS 110.3
- IS 201.3
- [IS 401.3](#) International Cooperation and Conflict
- [IS 402.3](#) International Development
- One of IS 200.3 or [IS 211.3](#) Introduction to International Studies Development or [IS 212.3](#) International Studies and Conflict
- [POLS 245.3](#) Politics of Africa
- [POLS 341.3](#) Asian Government and Politics
- [POLS 349.3](#) Multiculturalism and Immigration in Canada
- [POLS 362.3](#) Global Capitalism
- [POLS 375.3](#) Canadian Foreign Policy in the Global Era
- [POLS 446.3](#) Democracy in Africa
- [POLS 471.3](#) Global Governance in a Contested World

Please note that prerequisites apply for the above courses.

## International Requirement (9 credit units)

Complete 9 credit units from the following:

- [COMM 498.3](#) Special Topics – Edwards International Study Tour
- Course(s) taken while studying internationally through an approved Edwards or Arts & Science **spring/summer program (courses offered between May and August)**
- Course(s) taken while partaking in a U of S study abroad team with an approved Edwards partner institution