# Academic Programs Committee of Council

## University Course Challenge

**Scheduled posting: November 2021**

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 Education
College of Graduate and Postdoctoral Studies
Edwards School of Business

**Approval:** Date of circulation: November 15, 2021
Date of effective approval if no challenge received: November 30, 2021

**Next scheduled posting:**

The next scheduled posting will be December 15, 2021, with a submission deadline of **December 13, 2021.** Urgent items can be posted on request.

Please direct challenges to both of the following: seanine.warrington@usask.ca in Registrarial Services and amanda.storey@usask.ca in the Governance Office.

**College of Agriculture and Bioresources University Course Challenge Submission (November 2021)**

The following curricular revisions were approved by the College of Agriculture & Bioresources Undergraduate Affairs Committee on October 20, 2021, and are being submitted here for approval. **Please Note:** Changes to Transfer Credit Agreements are included for *information*, not approval. They have been left in for context.

**Changes to Academic Policies**

**Acceptable Humanities, Fine Arts, Natural and Social Sciences Course Areas**

**Number of Junior Credits Allowed:**

The number of junior credits that can be credited in any given subject will be determined by the College with academic authority for the subject area. In most cases a maximum of six credits of junior or 100-level credit can be applied.

**Social Sciences**

- Anthropology
- Archaeology
- Economics*
- Geography**
- Indigenous Studies
- International Studies
- Linguistics
- Planning
- Political Studies
- Psychology
- Sociology
- Women's and Gender Studies

~~*Students majoring in Agricultural Economics or pursuing a Bachelor of Science in Agribusiness cannot take economics courses to meet this requirement.~~

~~**The following Geography courses are not acceptable to meet this requirement: GEOG 101, 102, 111, 112, 120, 125, 210, 222, 225, 233, 235.~~

**The following Geography courses are not acceptable to meet this requirement: 120, 125, 222, 225, 233, 235.

**Rationale:** The department of Agricultural and Resource Economics voted to remove this restriction from the B.S.A. Agricultural Economics and the B.Sc. Agribusiness for the 2021-2022 Course and

Program Catalogue, so this revision brings our Academic Policies in-line with this earlier revision. Many of the Geography courses in the list no longer exist, so deleted courses have been removed.

**Course Deletion**

**FABS 366.3: Physicochemical Properties of Food Macromolecules**

Provides insight into the basic structure-function relationships of lipids, proteins and polysaccharides in complex systems. The physicochemical, i.e. functional, properties of food and bioproducts will be emphasized.

Prerequisite(s): FABS 110 and CHEM 112 or permission of the instructor.

Note: Offered in alternate years.

**Rationale:** This course has not been offered for a number of years and the department does not plan to offer it again. The course has already been deleted from the requirements of the B.S.A. Food and Bioproduct Sciences major.

**Changes to Program Requirements**

**Motion:** Remove information about block transfer credit from KA Diploma in Indigenous Lands Governance and KA Diploma in Indigenous Resource Management for the 2022-2023 Course and Program Catalogue

**Kanawayihetaytan Askiy**

Diploma in Indigenous Lands Governance, Dip.(K.A.I.L.G.)

**Kanawayihetaytan Askiy Diploma in Indigenous Lands Governance (60 credit units)**

The Diploma in Indigenous Lands Governance provides students with a broad background in governance, management, administration and political science as they relate to Indigenous communities. The diploma prepares them for roles in governance in their communities and leadership in local, provincial and national settings. The program has a strong focus on experiential learning. It teaches students the skills required for future employment as land managers as well as the scientific and traditional knowledge required for research and decision-making. The diploma is entirely offered through a combination of on-line and condensed (i.e., one-week) delivery courses, although student may also opt to take face-to-face courses. Students enrolling in the diploma would normally complete the Kanawayihetaytan Askiy Certificate before enrolling in the diploma. ~~Transfer credit may also be given for the Professional Lands Management Certificate Program from the National Aboriginal Land Manager's Association and the Accredited Certificate Program in First Nation Applied Economics from the Tulo Centre of Indigenous Economics. Please contact the College of Agriculture & Bioresources for further information.~~

~~***Please note that a maximum of 12 credit units of transfer credit can be used for credit toward this diploma if block transfer credit is applied.**~~

**Required Certificate Courses (21 credit units)**

- Completion of the Kanawayihetaytan Askiy Certificate (21 credit units). This would mean completion of the following courses:
- **ASKI 101.3** Field Studies in the Environment
- **ASKI 102.3** Introduction to Legal Concepts in Resource Management
- **ASKI 103.3** Legal Process and Instruments in Resource Management
- **ASKI 104.3** Introduction to Management Issues
- **ASKI 105.3** Economics and Planning
- **ASKI 201.3** Resource Management Project Assessment
- **INDG 107.3** Introduction to Canadian Indigenous Studies
- Or, completion of the Indigenous Peoples' Resource Management Certificate plus **INDG 107.3** Introduction to Canadian Indigenous Studies

**Core Requirements (21 credit units)**

- **ASKI 202.1** Introduction to Land Management Frameworks OR **RRM 201.1** Geographical Information Systems
- **ASKI 204.2** Introduction to the Duty to Consult
- **INDG 264.3** Aboriginal People and Canadian Politics
- **POLS 111.3** Democratic Citizenship in Canada
- **POLS 112.3** Justice and Injustice in Politics and Law
- **POLS 222.3** Indigenous Governance and Politics
- **POLS 322.3** First Nations Management and Administrative Systems
- **POLS 323.3** First Nations Policies and Programs

**Restricted Electives (15 credit units)**

- **ANBI 475.3** Field Studies in Arctic Ecosystems and Aboriginal Peoples
- **GEOG 120.3** Introduction to Global Environmental Systems
- **GEOG 150.3** Introduction to the Circumpolar World
- **GEOG 280.3** Environmental Geography
- **GEOG 352.3** Contemporary Issues of the Circumpolar World
- **GEOG 381.3** Development in the Canadian North Issues and Challenges or **GEOG 302.3** Quantitative Methods in Geography offered by Athabasca University
- **GEOG 385.3** Analysis of Environmental Management and Policy Making

- **GEOG 386.3** Environmental Impact Assessment or ENVS 305.3 offered by Athabasca University
- **INDG 210.3** Indigenous Ways of Knowing
- **PLAN 329.3** Integrated Water Resource Planning
- ~~POLI 325.3 offered by Athabasca University~~
- **POLS 225.3** Canadian Public Administration and Administrative Law
- **POLS 226.3** Canadian Public Policy
- **POLS 422.3** First Nations Governance

**Open Electives (3 credit units)**

Please choose 3 credit units of open electives.

~~**Block Transfer Credit**~~

~~Please note that completion of the following can be used to meet 15 credit units of the restricted electives and 3 credit units of the open elective requirements in this program:~~

- ~~The Professional Lands Management Certificate Program from the National Aboriginal Land Manager's Association~~
- ~~The Accredited Certificate Program in First Nation Applied Economics from the Tulo Centre of Indigenous Economics~~

~~Please contact the College of Agriculture and Bioresources for more information on block transfer credit.~~

**Kanawayihetaytan Askiy**

Diploma in Indigenous Resource Management, Dip.(K.A.I.R.M.)

**Kanawayihetaytan Askiy Diploma in Indigenous Resource Management (60 credit units)**

The Diploma in Indigenous Resource Management provides students with a broad background in resource management for Indigenous communities. The diploma builds on the Kanawayihetaytan Askiy Certificate and prepares students to become land managers in their communities and to provide leadership in local, provincial, and national settings. The program teaches students the skills required for future employment as land managers as well as the scientific and traditional knowledge required for research and decision-making. The diploma is entirely offered through a combination of on-line and condensed (i.e., one-week) delivery courses, although students may also opt to take face-to-face courses. Students enrolling in the diploma would normally complete the Kanawayihetaytan Askiy Certificate before enrolling in the diploma. ~~Transfer credit may also be given for the Professional Lands Management Certificate Program from the National Aboriginal Land Manager's Association. Please contact the College of Agriculture & Bioresources for further information.~~

~~***Please note that a maximum of 12 credit units of transfer credit can be used for credit toward this diploma if block transfer credit is applied.***~~

**Required Certificate Courses (21 credit units)**

- Completion of the Kanawayihetaytan Askiy Certificate (21 credit units). This would mean completion of the following courses:
- **ASKI 101.3** Field Studies in the Environment
- **ASKI 102.3** Introduction to Legal Concepts in Resource Management
- **ASKI 103.3** Legal Process and Instruments in Resource Management
- **ASKI 104.3** Introduction to Management Issues
- **ASKI 105.3** Economics and Planning
- **ASKI 201.3** Resource Management Project Assessment
- **INDG 107.3** Introduction to Canadian Indigenous Studies
- Or, completion of the Indigenous Peoples' Resource Management Certificate plus **INDG 107.3** Introduction to Canadian Indigenous Studies

**Core Requirements (21 credit units)**

- **GEOG 120.3** Introduction to Global Environmental Systems
- **GEOG 150.3** Introduction to the Circumpolar World
- **GEOG 280.3** Environmental Geography
- **GEOG 386.3** Environmental Impact Assessment
- **PLAN 329.3** Integrated Water Resource Planning
- **SLSC 232.3** Soil Genesis and Classification

**Choose 3 of the following one-credit unit courses:**

- **EVSC 204.1** Soil Sampling Design and Implementation
- **RRM 201.1** Geographical Information Systems
- **SLSC 205.1** Introduction to Field Description of Soils

**Restricted Electives (15 credit units)**

Please note that BIOL 204 and 207 are recommended for students who intend to ladder into the [B.Sc.(RRM)] programs. The following courses are not available on-line: **INDG 210.3** Indigenous Ways of Knowing, EVSC 380.3, **ANBI 375.3** Animals and the Environment, **ANBI 475.3** Field Studies in Arctic Ecosystems and Aboriginal Peoples, **RRM 301.9** Field Course in Renewable Resource Management, **INDG 221.3** Indigenous Food Sovereignty and **INDG 241.3** Weaving Indigenous Science and Western Science.

- **AGRC 111.3** Discovery in Plant and Soil Sciences
- **AGRC 112.3** Animal Agriculture and Food Science
- **ANBI 375.3** Animals and the Environment

- ANBI 475.3 Field Studies in Arctic Ecosystems and Aboriginal Peoples
- ~~BIOL 204.3 offered by Athabasca University~~
- ~~BIOL 207.3 offered by Athabasca University~~
- EVSC 380.3 Grassland Soils and Vegetation
- GEOG 352.3 Contemporary Issues of the Circumpolar World
- GEOG 381.3 Development in the Canadian North Issues and Challenges
- GEOG 385.3 Analysis of Environmental Management and Policy Making
- INDG 210.3 Indigenous Ways of Knowing
- INDG 221.3 Indigenous Food Sovereignty
- INDG 241.3 Weaving Indigenous Science and Western Science
- INDG 264.3 Aboriginal People and Canadian Politics
- PLSC 234.3 Weed Control in Organic Agriculture
- POLS 323.3 First Nations Policies and Programs
- RRM 301.9 Field Course in Renewable Resource Management

**Open Electives (3 credit units)**

Please choose 3 credit units of open electives.

~~**Block Transfer Credit**~~

~~Please note that completion of the following can be used to meet 15 credit units of the restricted electives and 3 credit units of the open elective requirements in this program:~~

- ~~The Professional Lands Management Certificate Program from the National Aboriginal Land Manager's Association~~

~~Please contact the College of Agriculture and Bioresources for more information on block transfer credit.~~

**Agronomy**

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

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

- AGRC 110.3 Scientific Literacy and Communication for the Agricultural Sciences
- AGRC 111.3 Discovery in Plant and Soil Sciences
- AGRC 112.3 Animal Agriculture and Food Science
- AGRC 113.3 Agri Food Issues and Institutions

- AREC 220.3 History of Indigenous Agriculture in Canada or INDG 107.3 Introduction to Canadian Indigenous Studies
- **BIOL 120.3** The Nature of Life
- **BIOL 121.3** The Diversity of Life
- **CHEM 112.3** General Chemistry I Structure Bonding and Properties of Materials
- ~~**ECON 111.3** Introductory Microeconomics~~
- 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 1 - Winter Term (15 credit units)**~~

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

**Humanities**

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

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

**~~Social 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
- ~~**MATH 104.3** Elementary Calculus, **MATH 110.3** Calculus I, or **MATH 125.3** Mathematics for the Life Sciences~~
- 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
- ~~RCM 200.3~~
- **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 Disruption
- ANTH 421.3 Anthropology in Time: Early Influences
- **ENG 111.3** Literature and Composition Reading Poetry
- **ENG 112.3** Literature and Composition Reading Drama
- **ENG 113.3** Literature and Composition Reading Narrative
- **ENG 114.3** Literature and Composition Reading Culture
- **ENG 120.3** Introduction to Creative Writing
- HIST 115.3 History Matters Ideas and Culture
- HIST 125.3 History Matters Indigenous Colonial and Post Colonial Histories
- HIST 135.3 History Matters Gender Sex and Society
- HIST 145.3 History Matters War Violence and Politics
- HIST 155.3 History Matters Science and Environment
- HIST 165.3 History Matters Health and Society
- HIST 175.3 History Matters Identities and Communities in Transition
- HIST 185.3 History Matters Conflict Law Politics and the State

- HIST 193.3 History Matters Topics in Canadian History
- HIST 194.3 History Matters Topics in European History
- INTS 203.3 Cultivating Humanity
- PHIL 120.3 Knowledge Mind and Existence
- PHIL 121.3 Introduction to World Philosophies
- PHIL 133.3 Introduction to Ethics and Values
- PHIL 208.3 Ancient Philosophy Presocratics to Plato
- PHIL 233.3 Ethical Theory
- POLS 245.3 Politics of Africa
- POLS 323.3 First Nations Policies and Programs
- POLS 328.3 Public Policy Analysis
- POLS 333.3 Theory and Politics of Law
- POLS 336.3 Justice and Democracy
- POLS 422.3 First Nations Governance
- POLS 461.3 Topics in Global Politics
- PSY 323.3 Qualitative Study of Lives and Social Practices
- PSY 355.3 Research in Advanced Cognitive Science
- RLST 280.3 Methodologies and Approaches to Study of Religions
- RLST 362.3 Monsters and Mischief Makers

**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 350.3** Agricultural Entomology~~
- PLSC 427.3 Ecology and Management of Invasive Plants
- **PLSC 450.3** Applied Entomology

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

- **PLSC 333.3** Tropical Crops of the World
- **PLSC 375.3** Current Topics in Agronomy
- **PLSC 382.3** Introduction to Field Scouting
- **PLSC 418.3** Management of Arable Grassland
- **PLSC 420.3** Grain Chemistry and Technology
- **PLSC 422.3** Rangeland Ecology and Management
- **PLSC 441.3** Fruit Science
- **PLSC 451.3** Vegetable Agronomy
- **SLSC 232.3** Soil Genesis and Classification
- **SLSC 313.3** Environmental Soil Chemistry
- **SLSC 322.3** Environmental Soil Physics
- **SLSC 444.3** Soil 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, 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 ~~in Plant Science, Environmental or Soil Science~~ not required for the major, or courses approved by an advisor.

**Open Electives**

- Choose 6 credit units of open electives

**Agronomy**

Diploma, Dip.(Agrn.)

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

- **AGRC 111.3** Discovery in Plant and Soil Sciences
- **AREC 220.3** History of Indigenous Agriculture in Canada or **INDG 107.3** Introduction to Canadian Indigenous Studies (**AREC 220.3** History of Indigenous Agriculture in Canada is preferred)
- **BIOL 120.3** The Nature of Life
- ~~**ECON 111.3** Introductory Microeconomics~~

**Choose ~~3~~ 6 credit units of open electives**

~~Note: **CMPT 100.3** Introduction to Computing, Introduction to Computers, or an equivalent computer course is recommended for students who lack basic computer skills.~~

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

- **BIOL 222.3** The Living Plant
- **BLE 205.3** Agricultural Machinery Management
- **PLSC 201.3** Field Crops of Western Canada
- **PLSC 260.3** Principles of Plant Protection
- **SLSC 240.3** Agricultural Soil Science

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

- **AGRC 113.3** Agri Food Issues and Institutions
- **PLSC 375.3** Current Topics in Agronomy
- RCM 200.3 Effective Professional Communication or AGRC 110.3 Scientific Literacy and Communication for the Agricultural Sciences
- **SLSC 312.3** Soil Fertility and Fertilizers

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

- **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 350.3 Agricultural Entomology
- PLSC 450.3 Applied Entomology

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

- AGRC 112.3 Animal Agriculture and Food Science
- AGRC 211.3 Global Food Security
- AREC 222.3 Introduction to Farm Business Management
- AREC 230.3 Innovation and Entrepreneurship
- AREC 251.3 Introduction to Agricultural Policy
- AREC 343.3 Grain and Livestock Marketing
- AREC 347.3 Agribusiness Marketing Management
- PLSC 213.3 Principles of Plant Ecology
- PLSC 214.3 Statistical Methods
- PLSC 220.3 Fundamentals of Horticulture
- PLSC 234.3 Weed Control in Organic Agriculture
- PLSC 235.3 Urban Agriculture
- PLSC 311.3 General Apiculture
- PLSC 330.3 Ornamental Plants
- PLSC 333.3 Tropical Crops of the World
- PLSC 335.3 Field Crop Disease Management
- PLSC 340.3 Weed Biology and Ecology
- PLSC 345.3 Pesticides and Crop Protection
- PLSC 350.3 Agricultural Entomology
- PLSC 382.3 Introduction to Field Scouting
- PLSC 408.3 Global Plant Genetic Resources
- PLSC 418.3 Management of Arable Grassland
- PLSC 420.3 Grain Chemistry and Technology

- PLSC 450.3 Applied Entomology
- **SLSC 232.3** Soil Genesis and Classification
- **SLSC 342.3** Agronomic Soil Microbiology
- ~~SLSC 343.3 or~~ **SLSC 444.3** Soil Ecology

**Applied Plant Ecology**

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

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

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

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

**Humanities**

- **CHIN — 100-Level, 200-Level, 300-Level, 400-Level**
- **CLAS — 100-Level, 200-Level, 300-Level, 400-Level**
- **CREE — 100-Level, 200-Level, 300-Level, 400-Level**
- **ENG — 100-Level, 200-Level, 300-Level, 400-Level**
- **FREN — 100-Level, 200-Level, 300-Level, 400-Level**
- **GERM — 100-Level, 200-Level, 300-Level, 400-Level**
- **HEB — 100-Level, 200-Level, 300-Level, 400-Level**
- **HIST — 100-Level, 200-Level, 300-Level, 400-Level**

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

**Social Sciences**

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

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

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

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

**Fine Arts**

- **ART — 100-Level, 200-Level, 300-Level, 400-Level**
- **ARTH — 100-Level, 200-Level, 300-Level, 400-Level**
- **DRAM — 100-Level, 200-Level, 300-Level, 400-Level**
- **MUS — 100-Level, 200-Level, 300-Level, 400-Level**

~~**Year 1 - Winter Term (15 credit units)**~~

- ~~**AGRC 112.3** Animal Agriculture and Food Science~~
- ~~**AGRC 113.3** Agri-Food Issues and Institutions~~
- ~~**BIOL 121.3** The Diversity of Life~~
- ~~**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
- ~~RCM 200.3~~
- **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 Disruption
- ANTH 421.3 Anthropology in Time: Early Influences
- **ENG 111.3** Literature and Composition Reading Poetry
- **ENG 112.3** Literature and Composition Reading Drama
- **ENG 113.3** Literature and Composition Reading Narrative
- **ENG 114.3** Literature and Composition Reading Culture
- **ENG 120.3** Introduction to Creative Writing
- HIST 115.3 History Matters Ideas and Culture

- HIST 125.3 History Matters Indigenous Colonial and Post Colonial Histories
- HIST 135.3 History Matters Gender Sex and Society
- HIST 145.3 History Matters War Violence and Politics
- HIST 155.3 History Matters Science and Environment
- HIST 165.3 History Matters Health and Society
- HIST 175.3 History Matters Identities and Communities in Transition
- HIST 185.3 History Matters Conflict Law Politics and the State
- HIST 193.3 History Matters Topics in Canadian History
- HIST 194.3 History Matters Topics in European History
- INTS 203.3 Cultivating Humanity
- PHIL 120.3 Knowledge Mind and Existence
- PHIL 121.3 Introduction to World Philosophies
- PHIL 133.3 Introduction to Ethics and Values
- PHIL 208.3 Ancient Philosophy Presocratics to Plato
- PHIL 233.3 Ethical Theory
- POLS 245.3 Politics of Africa
- POLS 323.3 First Nations Policies and Programs
- POLS 328.3 Public Policy Analysis
- POLS 333.3 Theory and Politics of Law
- POLS 336.3 Justice and Democracy
- POLS 422.3 First Nations Governance
- POLS 461.3 Topics in Global Politics
- PSY 323.3 Qualitative Study of Lives and Social Practices
- PSY 355.3 Research in Advanced Cognitive Science
- RLST 280.3 Methodologies and Approaches to Study of Religions
- RLST 362.3 Monsters and Mischief Makers

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

- **BIOL 323.3** Plant Systematics and Evolution
- BIOL 424.3

- **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 423.3** Landscape Ecology and Vegetation 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 18 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 Aboriginal Peoples
- **BIOL 331.3** Plant Physiology
- **BIOL 342.3** Fungi Environment and People
- **BIOL 373.3** Community Ecology
- **BIOL 470.3** Conservation Biology
- **GEOG 222.3** Introduction to Geomatics
- **GEOG 322.3** Introduction to 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 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

**Crop Science**

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

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

- AGRC 110.3 Scientific Literacy and Communication for the Agricultural Sciences
- **AGRC 111.3** Discovery in Plant and Soil Sciences
- AGRC 112.3 Animal Agriculture and Food Science
- AGRC 113.3 Agri Food Issues and Institutions
- AREC 220.3 History of Indigenous Agriculture in Canada or INDG 107.3 Introduction to Canadian Indigenous Studies
- **BIOL 120.3** The Nature of Life
- BIOL 121.3 The Diversity of Life
- **CHEM 112.3** General Chemistry I Structure Bonding and Properties of Materials
- ~~**ECON 111.3** Introductory Microeconomics~~
- MATH 104.3 Elementary Calculus or MATH 110.3 Calculus I or MATH 125.3 Mathematics for the Life Sciences

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

**Humanities**

- **CHIN — 100-Level, 200-Level, 300-Level, 400-Level**

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

**Social Sciences**

- ANTH — 100-Level, 200-Level, 300-Level, 400-Level
- ARCH — 100-Level, 200-Level, 300-Level, 400-Level
- ECON — 100-Level, 200-Level, 300-Level, 400-Level
- GEOG 130.3 Environment Health and Planning
- INDG — 100-Level, 200-Level, 300-Level, 400-Level
- IS — 100-Level, 200-Level, 300-Level, 400-Level

- **LING — 100-Level, 200-Level, 300-Level, 400-Level**
- **PLAN — 100-Level, 200-Level, 300-Level, 400-Level**
- **POLS — 100-Level, 200-Level, 300-Level, 400-Level**
- **PSY — 100-Level, 200-Level, 300-Level, 400-Level**
- **SOC — 100-Level, 200-Level, 300-Level, 400-Level**
- **SOSC — 100-Level, 200-Level, 300-Level, 400-Level**
- **WGST — 100-Level, 200-Level, 300-Level, 400-Level**

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

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

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

**Fine Arts**

- **ART — 100-Level, 200-Level, 300-Level, 400-Level**
- **ARTH — 100-Level, 200-Level, 300-Level, 400-Level**
- **DRAM — 100-Level, 200-Level, 300-Level, 400-Level**
- **MUS — 100-Level, 200-Level, 300-Level, 400-Level**

~~**Year 1 - Winter Term (15 credit units)**~~

- ~~**AGRC 112.3** Animal Agriculture and Food Science~~
- ~~**AGRC 113.3** Agri-Food Issues and Institutions~~
- ~~**BIOL 121.3** The Diversity of Life~~
- ~~**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
- CHEM 250.3 Introduction to Organic Chemistry
- ~~**MATH 104.3** Elementary Calculus or **MATH 110.3** Calculus I or **MATH 125.3** Mathematics for the Life Sciences~~
- **PLSC 214.3** Statistical Methods or **STAT 245.3** Introduction to Statistical Methods
- **PLSC 220.3** Fundamentals of Horticulture or PLSC 213.3 Principles of Plant Ecology
- **PLSC 222.3** Introduction to Field Crops
- **PLSC 260.3** Principles of Plant Protection
- ~~**PLSC 317.3** Plant Metabolism~~
- ~~RCM 200.3~~

**Choose 6 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 Disruption

- ANTH 421.3 Anthropology in Time: Early Influences
- **ENG 111.3** Literature and Composition Reading Poetry
- **ENG 112.3** Literature and Composition Reading Drama
- **ENG 113.3** Literature and Composition Reading Narrative
- **ENG 114.3** Literature and Composition Reading Culture
- **ENG 120.3** Introduction to Creative Writing
- HIST 115.3 History Matters Ideas and Culture
- HIST 125.3 History Matters Indigenous Colonial and Post Colonial Histories
- HIST 135.3 History Matters Gender Sex and Society
- HIST 145.3 History Matters War Violence and Politics
- HIST 155.3 History Matters Science and Environment
- HIST 165.3 History Matters Health and Society
- HIST 175.3 History Matters Identities and Communities in Transition
- HIST 185.3 History Matters Conflict Law Politics and the State
- HIST 193.3 History Matters Topics in Canadian History
- HIST 194.3 History Matters Topics in European History
- INTS 203.3 Cultivating Humanity
- PHIL 120.3 Knowledge Mind and Existence
- PHIL 121.3 Introduction to World Philosophies
- PHIL 133.3 Introduction to Ethics and Values
- PHIL 208.3 Ancient Philosophy Presocratics to Plato
- PHIL 233.3 Ethical Theory
- POLS 245.3 Politics of Africa
- POLS 323.3 First Nations Policies and Programs
- POLS 328.3 Public Policy Analysis
- POLS 333.3 Theory and Politics of Law
- POLS 336.3 Justice and Democracy
- POLS 422.3 First Nations Governance
- POLS 461.3 Topics in Global Politics

- PSY 323.3 Qualitative Study of Lives and Social Practices
- PSY 355.3 Research in Advanced Cognitive Science
- RLST 280.3 Methodologies and Approaches to Study of Religions
- RLST 362.3 Monsters and Mischief Makers

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

- **BIOL 331.3** Plant Physiology
- PLSC 317.3 Plant Metabolism
- **PLSC 405.3** Genetics of Plant Populations
- **PLSC 411.3** Plant Breeding
- **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 elective)

**Choose ~~18~~ 21 credit units from the following:**

- ~~**BIOL 345.3** Introductory Plant Pathology~~
- **PLSC 333.3** Tropical Crops of the World
- **PLSC 335.3** Field Crop Disease Management
- PLSC 340.3 Weed Biology and Ecology
- PLSC 345.3 Pesticides and Crop Protection
- **PLSC 401.3** Sustainable Crop Production
- **PLSC 408.3** Global Plant Genetic Resources
- **PLSC 416.3** Applied Plant Biotechnology
- **PLSC 418.3** Management of Arable Grassland
- **PLSC 420.3** Grain Chemistry and Technology
- **PLSC 441.3** Fruit Science
- PLSC 450.3 Applied Entomology
- **PLSC 451.3** Vegetable Agronomy
- **PLSC 470.3** Plant Propagation ~~and Nursery Management~~

**Choose 18 credit units of restricted electives:**

Students can choose courses for completion of a minor in an unrelated subject 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, BINF 210.3 Introduction to Bioinformatics Applications, BIOL 302.3 Evolutionary Processes, BIOL 345.3 Introductory Plant Pathology, **BIOL 365.3** Insect Diversity and Evolution, **BLE 205.3** Agricultural Machinery Management, BMSC 200.3 Biomolecules, **AREC 254.3** Agribusiness Taxation, **AREC 346.3** Principles of Selling, **AREC 347.3** Agribusiness Marketing Management, **FABS 211.3** Introductory Bioproduct Science, 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 ~~Plant Science, Environmental or Soil Science~~ not required for the major, or courses approved by an advisor.

**Open Electives**

- Choose ~~9~~ 3 credit units open electives

**Horticulture Science**

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

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

- AGRC 110.3 Scientific Literacy and Communication for the Agricultural Sciences
- **AGRC 111.3** Discovery in Plant and Soil Sciences
- AGRC 112.3 Animal Agriculture and Food Science
- AGRC 113.3 Agri Food Issues and Institutions
- AREC 220.3 History of Indigenous Agriculture in Canada or INDG 107.3 Introduction to Canadian Indigenous Studies
- **BIOL 120.3** The Nature of Life
- BIOL 121.3 The Diversity of Life
- **CHEM 112.3** General Chemistry I Structure Bonding and Properties of Materials
- ~~**ECON 111.3** Introductory Microeconomics~~

**Choose 3 credit units of open electives**

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

**Humanities**

- **CHIN — 100-Level, 200-Level, 300-Level, 400-Level**
- **CLAS — 100-Level, 200-Level, 300-Level, 400-Level**
- **CREE — 100-Level, 200-Level, 300-Level, 400-Level**

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

**Social Sciences**

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

- **POLS — 100-Level, 200-Level, 300-Level, 400-Level**
- **PSY — 100-Level, 200-Level, 300-Level, 400-Level**
- **SOC — 100-Level, 200-Level, 300-Level, 400-Level**
- **SOSC — 100-Level, 200-Level, 300-Level, 400-Level**
- **WGST — 100-Level, 200-Level, 300-Level, 400-Level**

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

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

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

**Fine Arts**

- **ART — 100-Level, 200-Level, 300-Level, 400-Level**
- **ARTH — 100-Level, 200-Level, 300-Level, 400-Level**
- **DRAM — 100-Level, 200-Level, 300-Level, 400-Level**
- **MUS — 100-Level, 200-Level, 300-Level, 400-Level**

~~**Year 1 - Winter Term (15 credit units)**~~

- ~~**AGRC 112.3** Animal Agriculture and Food Science~~
- ~~**AGRC 113.3** Agri Food Issues and Institutions~~
- ~~**BIOL 121.3** The Diversity of Life~~
- ~~**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~~
- CHEM 250.3 Introduction to Organic Chemistry
- **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
- **PLSC 214.3** Statistical Methods or **STAT 245.3** Introduction to Statistical Methods
- **PLSC 220.3** Fundamentals of Horticulture
- PLSC 235.3 Urban Agriculture
- **PLSC 260.3** Principles of Plant Protection
- ~~RCM 200.3~~
- **SLSC 240.3** Agricultural Soil Science

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

- ANTH 302.3 The Practice of Ethnography
- ANTH 310.3 Anthropology of Gender
- ANTH 405.3 Anthropology of Disaster and Disruption
- ANTH 421.3 Anthropology in Time: Early Influences
- **ENG 111.3** Literature and Composition Reading Poetry

- **ENG 112.3** Literature and Composition Reading Drama
- **ENG 113.3** Literature and Composition Reading Narrative
- **ENG 114.3** Literature and Composition Reading Culture
- **ENG 120.3** Introduction to Creative Writing
- HIST 115.3 History Matters Ideas and Culture
- HIST 125.3 History Matters Indigenous Colonial and Post Colonial Histories
- HIST 135.3 History Matters Gender Sex and Society
- HIST 145.3 History Matters War Violence and Politics
- HIST 155.3 History Matters Science and Environment
- HIST 165.3 History Matters Health and Society
- HIST 175.3 History Matters Identities and Communities in Transition
- HIST 185.3 History Matters Conflict Law Politics and the State
- HIST 193.3 History Matters Topics in Canadian History
- HIST 194.3 History Matters Topics in European History
- INTS 203.3 Cultivating Humanity
- PHIL 120.3 Knowledge Mind and Existence
- PHIL 121.3 Introduction to World Philosophies
- PHIL 133.3 Introduction to Ethics and Values
- PHIL 208.3 Ancient Philosophy Presocratics to Plato
- PHIL 233.3 Ethical Theory
- POLS 245.3 Politics of Africa
- POLS 323.3 First Nations Policies and Programs
- POLS 328.3 Public Policy Analysis
- POLS 333.3 Theory and Politics of Law
- POLS 336.3 Justice and Democracy
- POLS 422.3 First Nations Governance
- POLS 461.3 Topics in Global Politics
- PSY 323.3 Qualitative Study of Lives and Social Practices
- PSY 355.3 Research in Advanced Cognitive Science

- RLST 280.3 Methodologies and Approaches to Study of Religions
- RLST 362.3 Monsters and Mischief Makers

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

PLSC 433 and PLSC 451 must be taken in odd years; PLSC 330, PLSC 441, PLSC 461 and PLSC 470 must be taken in even years.

- BIOL 226.3 Genes to Genomics
- **BIOL 331.3** Plant Physiology or **PLSC 411.3** Plant Breeding
- ~~**PLSC 235.3** Urban Agriculture~~
- **PLSC 317.3** Plant Metabolism
- **PLSC 330.3** Ornamental Plants
- **PLSC 433.3** Greenhouse Structures and Crops
- **PLSC 441.3** Fruit Science
- **PLSC 451.3** Vegetable Agronomy
- **PLSC 461.3** Post Harvest Management of Horticultural Crops
- **PLSC 470.3** Plant Propagation ~~and Nursery Management~~
- **PLSC 492.3** Project Thesis in Plant Sciences or **PLSC 494.6** Research Thesis in Plant Sciences (3 credit units count as restrictive elective)

**Choose 18 credit units of restricted electives:**

Students can choose courses to complete a minor in an unrelated subject or choose courses selected from the following list:

- **AGRC 211.3** Global Food Security
- **AGRC 311.3** International Study Tour
- 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

- **FABS 212.3** Agrifood and Resources Microbiology
- **GEOG 240.3** Sustainable Cities and Regions
- **NUTR 120.3** Basic Nutrition
- **RRM 215.3** Identification of Saskatchewan Plants and Soils
- any 200-level or above course in PLSC, EVSC or SLSC ~~Plant Science, Environmental or Soil Science~~ not required for the major, or courses approved by an advisor. If a student chooses to register in **PLSC 494.6** Research Thesis in Plant Sciences, 3 credit units will be applied here.

**Open Electives**

- Choose 12 credit units open electives

**Horticulture Science**

Minor

**Requirements (18 credit units)**

- **PLSC 220.3** Fundamentals of Horticulture

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

- ~~**PLSC 235.3** Urban Agriculture~~
- ~~**PLSC 330.3** Ornamental Plants~~
- ~~**PLSC 333.3** Tropical Crops of the World~~
- ~~**PLSC 335.3** Field Crop Disease Management~~
- PLSC 433.3 Greenhouse Structures and Crops
- **PLSC 435.3** Landscape Design
- **PLSC 441.3** Fruit Science
- **PLSC 451.3** Vegetable Agronomy
- **PLSC 461.3** Post Harvest Management of Horticultural Crops
- **PLSC 470.3** Plant Propagation and Nursery Management

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

- ~~**BIOL 345.3** Introductory Plant Pathology~~
- ~~**PLSC 213.3** Principles of Plant Ecology~~

- AGRC 311.3 International Study Tour
- PLSC 235.3 Urban Agriculture
- **PLSC 311.3** General Apiculture
- PLSC 330.3 Ornamental Plants
- PLSC 333.3 Tropical Crops of the World
- ~~**PLSC 340.3** Weed Biology and Ecology~~
- ~~**PLSC 423.3** Landscape Ecology and Vegetation Management~~
- PLSC 440.3 Climate Smart Agriculture
- **PLSC 433.3** Greenhouse Structures and Crops
- PLSC 435.3 Landscape Design
- PLSC 441.3 Fruit Science
- PLSC 451.3 Vegetable Agronomy
- PLSC 461.3 Post Harvest Management of Horticultural Crops
- PLSC 470.3 Plant Propagation
- ~~**SLSC 240.3** Agricultural Soil Science~~
- ~~other courses, as approved by the Department of Plant Sciences~~
- ~~~~

**Change to Course Prerequisite**

**PLSC 340.3: Weed Biology and Ecology**

Growth, reproduction and spread of weeds, influence of agronomic and edaphic factors on weed community structure, weed-crop competition, and biological and mechanical control of weeds. Concludes with a discussion of the use of combined control methods (biological, mechanical and chemical) in integrated weed management.

~~Prerequisite(s): AGRC 111 or BIOL 222.~~

Prerequisite(s): PLSC 260

## Items for Information

### Changes to Course Prerequisites

**PLSC 335.3 Field Crop Disease Management**

The identification and causes of field crop diseases in common crops of western Canada, as well as the abiotic factors that influence disease and crop development are discussed. Included are the principles of plant pathology and integrated disease management, which are the foundations of plant disease control. The course is supplemented with occasional guest lecturers, who have experience in the field of plant pathology.

~~**Prerequisite(s):** PLSC 201 or 222~~

**Prerequisite(s):** PLSC 260

**PLSC 345.3: Pesticides and Crop Protection**

The use of pesticides for crop protection, factors affecting pesticide activity and fate of pesticides in the environment are discussed. Includes the biological activity of soil and foliar applied pesticides, pesticide modes of action and resistance, and dissipation in soil. Registration, environmental legislation and residue tolerance levels in various products are also discussed.

~~Prerequisite(s): PLSC 201 or PLSC 222.~~

Prerequisite(s): PLSC 260

Note: Students with credit for PLSC 50 will not receive credit for this course.

**Rationale:** These changes to prerequisites better reflect the academic preparation required for these courses.

### Change to Course Description

**FABS 401.3: Dairy Science and Technology**

~~Examines the chemistry and processing of dairy products. Lectures will cover fundamental aspects of milk with respect to chemistry, biochemistry, nutrition and engineering, as well as its application in a wide variety of dairy products.~~ The technology used to prepare the dairy products will be discussed in terms of their chemistry, physics, and nutrition, in order to understand how these products are produced, processed and consumed. Through this course, we will understand how each components of milk affects the production, processing, distribution, nutritional value, and consumer acceptance (flavour, texture, aroma, etc.).

Prerequisite(s): BMSC 200 and FABS 110 (formerly FABS 210) or permission of the instructor.

Note: Offered in alternate years.

**University Course Challenge – November 2021**
The curricular revisions listed below were approved through the Arts & Science College Course and Program Challenge, and by the relevant college-level Academic Programs Committee, and are now submitted to the University Course Challenge for approval.

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

## Astronomy

**Minor course revisions:**
**ASTR 213.3 Astronomical Photometry**
**ASTR 214.3 Astronomical Spectroscopy**
Prerequisite change:
Old prerequisite(s): One of ASTR 113, PHYS 115 or 155
New prerequisite(s): One of ASTR 113, PHYS 115, PHYS 155, or PHYS 156
Rationale: The proposed revision is in accordance with the removal of PHYS 155 and replacement by PHYS 156 starting from 2021-2022 academic year, in the First Year Engineering Program. Either PHYS 155 (Introduction to Electricity and Magnetism) or PHYS 156 (Electromagnetism and Waves for Engineering) provides students sufficient preparation for ASTR 213. PHYS 155 is left in the prerequisite so students who already have the credits for PHYS 155 can take ASTR 213. We will remove PHYS 155 after the transition.

## Geography

**New course(s):**
**GEOG 465.3 Environment and Health in Indigenous Communities**
SP/SU
This course provides students with an introduction to drivers of environmental health centred on Indigenous wellbeing and community health in Canada. Through a combination of classroom learning and field work in a local First Nation community we will introduce students to the environment and health challenges facing Indigenous peoples in Canada and community responses to these challenges. Students will work in teams with community members to study a critical health issue identified by our partner community. The research results will be presented to the class and before the community in the form of a written report, an oral presentation, and a brief personal video.
Prerequisite(s): GEOG 364.3 or permission of the instructor
Instructor(s): Paul Hackett, Corinne Schuster-Wallace
Rationale: This course is designed to give students a different perspective on the health challenges facing Indigenous communities. It combines class work with fieldwork to help students understand the impact of settler colonialism on Indigenous environmental health. It will serve both a proposed stream in changing environments and health (as part of Health Studies) and our growing capacity in health geography with the hiring of Dr. Corinne Schuster-Wallace. Additionally, the course will add to our ability to offer students opportunities for experiential learning.

**Course deletion(s):**
**GEOG 464.3 Geography of Health**
Rationale: This course is replaced by GEOG 465.3 (Environment and Health in Indigenous Communities).

## Music

**New course(s):**
**MUS 112.3 The History of Country Music**
Web Based Class
This asynchronous online course will examine the history and development of country music and its sub-genres in North America from the beginning of the 20th century through to present day. Throughout our chronological study of country music, we will look critically at and challenge assumptions about authenticity, race, gender, sexuality, tradition, political views, and popular culture as they relate to the genre in North America. No prior musical training is required, but students will be guided in directed listening to identify genre-related characteristics.
Instructor(s): Allison Fairbairn
Rationale: This course is intended to complement MUS 111: The History of Popular Music, providing students with another online option to explore the history of music. This course expands the Department of Music's offerings for non-Music majors.

**MUS 200.3 Music and Wellbeing**
3 Lecture Hours
Course participants will be introduced to the histories, contexts & theories of music in relation to the human experience. On the basis of neurological, psychological, & biological foundations, the power of music & musicking to build identity, community, emotional resilience & enhance spiritual practice will be explored.
Prerequisite(s): One of EMUS 115.3, EMUS 238.3, MUS 111.3, MUS 112.3, MUS 133.3, MUS 155.3, MUS 175.3, MUS 184.3, MUS 203.3, or MUS 225.3, or 18 credit units of university courses.
Note: Students with credit for MUS 298.3 Music and Wellbeing may not take this course for credit.
Instructor(s): Jennifer Lang
Rationale: The Department of Music's faculty and students have been active in Research, Scholarly, and Artistic Work that explore the relationship of music and wellbeing, especially in school and community programs (e.g. Music and Wellbeing Conference in May 2021). The Special Topics version of this course was developed and proposed at a time when the University community was becoming acutely aware of the importance of wellbeing. We believe music as a subject area is well positioned to explore this topic as it relates to key themes grounded in research and practice and therefore it ventures into a discipline of music that isn't explored in other streams (i.e. music education, musicology, theory, performance). In addition, the Department serves several students interested in pursuing additional degrees in music therapy and this course will not only provide a foundation of core content for them, but can also serve as an interest course for all music students and for the broader student communities extending into the College of Arts & Science and the University.

## Physics

**Minor program revisions**
**Bachelor of Science Honours, Double Honours, Four-year and Three-year in Physics**
Honours and Four-year programs: The requirement of MATH 331 and MATH 339 is changed to MATH 331 or MATH 339, and STAT 241 is added as a required course.
All programs: Remove CMPT 116 and 117 (deleted courses), and add PHYS 422 and 472 to physics electives.

**Bachelor of Science Honours (B.Sc. Honours) - Physics**
**C3 Cognate Requirement (27 credit units)**

**Junior course requirements**:

- **CMPT 141.3** Introduction to Computer Science
- **CMPT 145.3** Principles of Computer Science

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

~~CMPT 116 recommended~~

- ~~**CMPT 141.3** Introduction to Computer Science~~
- ~~**CMPT 116.3** Computing I~~

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

~~CMPT 117 recommended~~

- ~~**CMPT 145.3** Principles of Computer Science~~
- ~~**CMPT 117.3**~~

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

**Biology**

- **BIOL 120.3** The Nature of Life
- **BIOL 121.3** The Diversity of Life

**Chemistry**

- **CHEM 112.3** General Chemistry I Structure Bonding and Properties of Materials
- **CHEM 115.3** General Chemistry II Chemical Processes
- **CHEM 250.3** Introduction to Organic Chemistry

**Earth Sciences**

- **GEOG 120.3** Introduction to Global Environmental Systems
- **GEOL 121.3** Earth Processes
- **GEOL 122.3** Earth History

**Senior course requirements**:

- **MATH 164.3** Introduction to Linear Algebra or **MATH 266.3** Linear Algebra II
- ~~**MATH 331.3** Applied Differential Equations~~
- ~~**MATH 339.3** Differential Equations and Special Functions~~
- **MATH 379.3** Complex Analysis
- **STAT 241.3** Probability Theory

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

**MATH 223.3** Calculus III for Engineers recommended

- **MATH 223.3** Calculus III for Engineers
- **MATH 225.3** Intermediate Calculus I
- **MATH 276.3** Vector Calculus I

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

**MATH 224.3** Calculus IV for Engineers recommended

- **MATH 224.3** Calculus IV for Engineers
- **MATH 226.3** Intermediate Calculus II
- **MATH 238.3** Introduction to Differential Equations

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

- **MATH 331.3** Applied Differential Equations
- **MATH 339.3** Differential Equations and Special Functions

**C4 Major Requirement (54 credit units)**

- …

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

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

- **ASTR 213.3** Astronomical Photometry
- **ASTR 214.3** Astronomical Spectroscopy
- **ASTR 310.3** Galactic Astronomy and Cosmography
- **ASTR 312.3** Theoretical Models of Stars and Stellar Evolution
- **ASTR 411.3** Gravitation and Cosmology
- **EE 221.3** Analog Electronics
- **EP 228.3** Computer Tools for Engineering Physics
- **EP 317.3** Applied Physics of Materials
- **EP 325.3** Optical Systems Design
- **EP 353.2** Modern Physics Laboratory II
- **EP 354.2** Modern Physics Laboratory III
- **EP 370.3** Heat Kinetic Theory and Thermodynamics
- **EP 417.3** Advanced Materials Science with Applications
- **EP 421.3** Advanced Optics
- **EP 428.3** Computational Engineering Physics
- **PHYS 255.3** Concepts of Radiation Physics
- **PHYS 322.3** Introduction to Atmospheric Science and Meteorology
- **PHYS 402.3** Techniques of Theoretical Physics
- **PHYS 403.3** Topics in Theoretical Physics
- **PHYS 404.3** Techniques of Experimental Physics
- **PHYS 422.3** Atmospheric and Solar-Terrestrial Physics
- **PHYS 452.3** Introduction to Nuclear and Particle Physics
- **PHYS 453.2** Modern Physics Laboratory IV
- **PHYS 456.3** Electricity and Magnetism II
- **PHYS 461.3** Physics of Plasmas and Fluids
- **PHYS 470.3** Solid State Physics
- **PHYS 471.3** Synchrotron Physics
- **PHYS 472.3** Particle Accelerator Physics and Synchrotron Radiation
- **PHYS 473.3** High Energy Particle Accelerators for Physics Research
- **PHYS 481.3** Quantum Mechanics II
- **PHYS 482.3** Quantum Mechanics III

- **PHYS 491.3** Physics Research Project
- **PHYS 493.6** Extended Research Project in Physics
- **PHYS 498.3** Special Topics
- **PHYS 499.6** Special Topics

A student may choose to complete a Specialization as part of the B.Sc. (Honours) in Physics. In this case the student must complete the Required Core Courses and the requirements for the chosen Specialization, and then choose additional courses from the above list as necessary to earn the minimum 48 credit units in the Major Requirement. A completed Specialization will be noted on the student's transcript.
…

**Bachelor of Science Four-year (B.Sc. Four-year) - Physics**
**C3 Cognate Requirement (24 credit units)**

**Junior course requirements:**

- **CMPT 141.3** Introduction to Computer Science

~~Choose **3 credit units** from the following:~~
~~CMPT 116 recommended:~~

- ~~**CMPT 141.3** Introduction to Computer Science~~
- ~~**CMPT 116.3** Computing I~~

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

**Biology**

- **BIOL 120.3** The Nature of Life
- **BIOL 121.3** The Diversity of Life

**Chemistry**

- **CHEM 112.3** General Chemistry I Structure Bonding and Properties of Materials
- **CHEM 115.3** General Chemistry II Chemical Processes
- **CHEM 250.3** Introduction to Organic Chemistry

**Computer Science**

- **CMPT 145.3** Principles of Computer Science or **CMPT 117.3**

**Earth Sciences**

- **GEOG 120.3** Introduction to Global Environmental Systems
- **GEOL 121.3** Earth Processes
- **GEOL 122.3** Earth History

**Senior course requirements**:

- **MATH 164.3** Introduction to Linear Algebra or **MATH 266.3** Linear Algebra II

- **STAT 241.3** Probability Theory

Choose **3 credit units** from the following:
**MATH 223.3** Calculus III for Engineers recommended

- **MATH 223.3** Calculus III for Engineers
- **MATH 225.3** Intermediate Calculus I
- **MATH 276.3** Vector Calculus I

Choose **3 credit units** from the following:
**MATH 224.3** Calculus IV for Engineers recommended

- **MATH 224.3** Calculus IV for Engineers
- **MATH 226.3** Intermediate Calculus II
- **MATH 238.3** Introduction to Differential Equations

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

- **MATH 331.3** Applied Differential Equations
- **MATH 339.3** Differential Equations and Special Functions

~~Students must also complete:~~

- ~~**MATH 164.3** Introduction to Linear Algebra or **MATH 266.3** Linear Algebra II~~
- ~~**MATH 331.3** Applied Differential Equations~~
- ~~**MATH 339.3** Differential Equations and Special Functions~~

**C4 Major Requirement (42 credit units)**

- …

Choose **15 credit units** from the following:

- **ASTR 213.3** Astronomical Photometry
- **ASTR 214.3** Astronomical Spectroscopy
- **ASTR 310.3** Galactic Astronomy and Cosmography
- **ASTR 312.3** Theoretical Models of Stars and Stellar Evolution
- **ASTR 411.3** Gravitation and Cosmology
- **EE 221.3** Analog Electronics
- **EP 228.3** Computer Tools for Engineering Physics
- **EP 317.3** Applied Physics of Materials
- **EP 325.3** Optical Systems Design
- **EP 353.2** Modern Physics Laboratory II
- **EP 354.2** Modern Physics Laboratory III
- **EP 370.3** Heat Kinetic Theory and Thermodynamics
- **EP 417.3** Advanced Materials Science with Applications
- **EP 421.3** Advanced Optics
- **EP 428.3** Computational Engineering Physics
- **PHYS 255.3** Concepts of Radiation Physics
- **PHYS 322.3** Introduction to Atmospheric Science and Meteorology
- **PHYS 402.3** Techniques of Theoretical Physics

- **PHYS 403.3** Topics in Theoretical Physics
- **PHYS 404.3** Techniques of Experimental Physics
- **PHYS 422.3** Atmospheric and Solar-Terrestrial Physics
- **PHYS 452.3** Introduction to Nuclear and Particle Physics
- **PHYS 453.2** Modern Physics Laboratory IV
- **PHYS 456.3** Electricity and Magnetism II
- **PHYS 461.3** Physics of Plasmas and Fluids
- **PHYS 470.3** Solid State Physics
- **PHYS 471.3** Synchrotron Physics
- **PHYS 472.3** Particle Accelerator Physics and Synchrotron Radiation
- **PHYS 473.3** High Energy Particle Accelerators for Physics Research
- **PHYS 481.3** Quantum Mechanics II
- **PHYS 482.3** Quantum Mechanics III
- **PHYS 491.3** Physics Research Project
- **PHYS 493.6** Extended Research Project in Physics
- **PHYS 498.3** Special Topics
- **PHYS 499.6** Special Topics

**Bachelor of Science Three-year (B.Sc. Three-year) - Physics**

**C3 Cognate Requirement (24 credit units)**

**Junior course requirements**:

- **CMPT 141.3** Introduction to Computer Science

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

~~CMPT 116 recommended~~

- ~~**CMPT 141.3** Introduction to Computer Science~~
- ~~**CMPT 116.3** Computing I~~

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

**Biology**

- …

**C4 Major Requirement (30 credit units)**

- …

**Physics Electives**

Choose **15 credit units** from the following:

- **ASTR 213.3** Astronomical Photometry
- **ASTR 214.3** Astronomical Spectroscopy
- **ASTR 310.3** Galactic Astronomy and Cosmography
- **ASTR 312.3** Theoretical Models of Stars and Stellar Evolution

- **ASTR 411.3** Gravitation and Cosmology
- **EE 221.3** Analog Electronics
- **EP 228.3** Computer Tools for Engineering Physics
- **EP 317.3** Applied Physics of Materials
- **EP 325.3** Optical Systems Design
- **EP 353.2** Modern Physics Laboratory II
- **EP 354.2** Modern Physics Laboratory III
- **EP 370.3** Heat Kinetic Theory and Thermodynamics
- **EP 417.3** Advanced Materials Science with Applications
- **EP 421.3** Advanced Optics
- **EP 428.3** Computational Engineering Physics
- **PHYS 255.3** Concepts of Radiation Physics
- **PHYS 322.3** Introduction to Atmospheric Science and Meteorology
- **PHYS 323.3** Mechanics II
- **PHYS 356.3** Intermediate Electromagnetism
- **PHYS 371.3** Statistical and Thermal Physics
- **PHYS 383.3** Quantum Mechanics I
- **PHYS 402.3** Techniques of Theoretical Physics
- **PHYS 403.3** Topics in Theoretical Physics
- **PHYS 404.3** Techniques of Experimental Physics
- **PHYS 422.3** Atmospheric and Solar-Terrestrial Physics
- **PHYS 452.3** Introduction to Nuclear and Particle Physics
- **PHYS 453.2** Modern Physics Laboratory IV
- **PHYS 456.3** Electricity and Magnetism II
- **PHYS 461.3** Physics of Plasmas and Fluids
- **PHYS 470.3** Solid State Physics
- **PHYS 471.3** Synchrotron Physics
- **PHYS 472.3** Particle Accelerator Physics and Synchrotron Radiation
- **PHYS 473.3** High Energy Particle Accelerators for Physics Research
- **PHYS 481.3** Quantum Mechanics II
- **PHYS 482.3** Quantum Mechanics III
- **PHYS 498.3** Special Topics
- **PHYS 499.6** Special Topics

## Bachelor of Science Double Honours - Physics - Major 1

**C3 Cognate Requirement (9 credit units)**

**Junior course requirements:**

- **CMPT 141.3** Introduction to Computer Science

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

~~CMPT 116 recommended~~

- ~~**CMPT 141.3** Introduction to Computer Science~~
- ~~**CMPT 116.3** Computing I~~

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

**Biology**

- …

**C4 Major Requirement (42 credit units)**

- …

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

**MATH 223.3** Calculus III for Engineers recommended

- …

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

**MATH 224.3** Calculus IV for Engineers recommended

- …

Choose **15 credit units** from the following:

**Physics Electives**

- **ASTR 213.3** Astronomical Photometry
- **ASTR 214.3** Astronomical Spectroscopy
- **ASTR 310.3** Galactic Astronomy and Cosmography
- **ASTR 312.3** Theoretical Models of Stars and Stellar Evolution
- **ASTR 411.3** Gravitation and Cosmology
- **EE 221.3** Analog Electronics
- **EP 253.1** Modern Physics Laboratory I
- **EP 317.3** Applied Physics of Materials
- **EP 353.2** Modern Physics Laboratory II
- **EP 354.2** Modern Physics Laboratory III
- **EP 370.3** Heat Kinetic Theory and Thermodynamics
- **EP 421.3** Advanced Optics
- **PHYS 230.1** Electricity and Magnetism Laboratory
- **PHYS 231.1** Optics Laboratory
- **PHYS 255.3** Concepts of Radiation Physics
- **PHYS 255.3** Concepts of Radiation Physics
- **PHYS 323.3** Mechanics II
- **PHYS 371.3** Statistical and Thermal Physics
- **PHYS 402.3** Techniques of Theoretical Physics
- **PHYS 422.3** Atmospheric and Solar-Terrestrial Physics
- **PHYS 452.3** Introduction to Nuclear and Particle Physics
- **PHYS 453.2** Modern Physics Laboratory IV
- **PHYS 456.3** Electricity and Magnetism II
- **PHYS 461.3** Physics of Plasmas and Fluids
- **PHYS 470.3** Solid State Physics

- PHYS 471.3 Synchrotron Physics
- PHYS 472.3 Particle Accelerator Physics and Synchrotron Radiation
- PHYS 473.3 High Energy Particle Accelerators for Physics Research
- PHYS 481.3 Quantum Mechanics II
- PHYS 482.3 Quantum Mechanics III
- PHYS 491.3 Physics Research Project
- PHYS 493.6 Extended Research Project in Physics

**Physics - Double Honours - Major 2**
**Requirements (42 credit units)**

- …

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

MATH 223.3 Calculus III for Engineers recommended

- …

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

MATH 224.3 Calculus IV for Engineers recommended

- …

**Physics Electives**

Choose **15 credit units** from the following, with at least 3 credit units at 400-level:

- ASTR 213.3 Astronomical Photometry
- ASTR 214.3 Astronomical Spectroscopy
- ASTR 310.3 Galactic Astronomy and Cosmography
- ASTR 312.3 Theoretical Models of Stars and Stellar Evolution
- ASTR 411.3 Gravitation and Cosmology
- EE 221.3 Analog Electronics
- EP 253.1 Modern Physics Laboratory I
- EP 317.3 Applied Physics of Materials
- EP 353.2 Modern Physics Laboratory II
- EP 354.2 Modern Physics Laboratory III
- EP 370.3 Heat Kinetic Theory and Thermodynamics
- EP 421.3 Advanced Optics
- PHYS 230.1 Electricity and Magnetism Laboratory
- PHYS 231.1 Optics Laboratory
- PHYS 255.3 Concepts of Radiation Physics
- PHYS 323.3 Mechanics II
- PHYS 371.3 Statistical and Thermal Physics
- PHYS 402.3 Techniques of Theoretical Physics
- PHYS 422.3 Atmospheric and Solar-Terrestrial Physics
- PHYS 452.3 Introduction to Nuclear and Particle Physics

- **PHYS 453.2** Modern Physics Laboratory IV
- **PHYS 456.3** Electricity and Magnetism II
- **PHYS 461.3** Physics of Plasmas and Fluids
- **PHYS 470.3** Solid State Physics
- **PHYS 471.3** Synchrotron Physics
- **PHYS 472.3** Particle Accelerator Physics and Synchrotron Radiation
- **PHYS 473.3** High Energy Particle Accelerators for Physics Research
- **PHYS 481.3** Quantum Mechanics II
- **PHYS 482.3** Quantum Mechanics III
- **PHYS 491.3** Physics Research Project
- **PHYS 493.6** Extended Research Project in Physics

If you require further assistance, please contact the Arts and Science Undergraduate Student Office.

## Bachelor of Science Double Honours - Physics and Biochemistry - Majors 1 and 2

**C4 Major Requirement (84 credit units)**

Junior courses:

- …

Senior courses:

- …

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

- …

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

- **EP 253.1** Modern Physics Laboratory I
- **EP 317.3** Applied Physics of Materials
- **EP 353.3** Modern Physics Laboratory II
- **EP 354.3** Modern Physics Laboratory III
- **EP 370.3** Heat Kinetic Theory and Thermodynamics
- **EP 421.3** Advanced Optics
- **PHYS 230.1** Electricity and Magnetism Laboratory
- **PHYS 231.1** Optics Laboratory
- **PHYS 255.3** Concepts of Radiation Physics
- **PHYS 323.3** Mechanics II
- **PHYS 402.3** Techniques of Theoretical Physics
- **PHYS 403.3** Topics in Theoretical Physics
- **PHYS 422.3** Atmospheric and Solar-Terrestrial Physics
- **PHYS 452.3** Introduction to Nuclear and Particle Physics
- **PHYS 461.3** Physics of Plasmas and Fluids
- **PHYS 470.3** Solid State Physics
- **PHYS 471.2** Synchrotron Physics
- **PHYS 473.3** High Energy Particle Accelerators for Physics Research

- **PHYS 481.3** Quantum Mechanics II
- **PHYS 482.3** Quantum Mechanics III
- **PHYS 492.3**
- **PHYS 498.3** Special Topics
- **PHYS 499.6** Special Topics

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

- **BMIS 489.6** Research Project in Biochemistry Microbiology and Immunology
- **PHYS 493.6** Extended Research Project in Physics

Rationale: MATH 339 no longer requires MATH 331 as a prerequisite. Either course is sufficient for Physics majors. STAT 241 is required for B.Sc. in Physics (4-yr or Honours), as the fundamental knowledge of probability and statistics is needed for understanding many aspects of physics, both theoretical and experimental. CMPT 116 and 117 have been deleted, and therefore students will take CMPT 141 and 145 instead.
PHYS 422 (Atmospheric and Solar-Terrestrial Physics) is proposed concurrently. PHYS 473 (High Energy Particle Accelerators for Physics Research) was approved a few years ago. Both are appropriate courses to be included in the Physics electives listed in each program.

**New course(s):**
**PHYS 422.3 Atmospheric and Solar Terrestrial Physics**
3 Lecture Hours
The structure and composition of the Earth's atmosphere; solar radiation and atmospheric radiative transfer; mean circulation, tides and wave motions; the major photochemical processes and their implications; the physical processes of the ionosphere and the magnetosphere.
Prerequisite(s): PHYS 223 and PHYS 356
Pre- or Co-requisite(s): EP 370 or PHYS 371
Instructor(s): Matthew Toohey, Susann Tegtmeier
Rationale: This course will provide upper-level undergraduate students with a chance to obtain skills and knowledge directly applicable to current research programs within the Institute of Space and Atmospheric Science (ISAS). It will complement the material of PHYS 322 (Introduction to Atmospheric Science and Meteorology), which focuses primarily on processes in the lower atmosphere, by covering the physics of the middle and upper atmosphere. Course to be cross-listed with graduate course PHYS 821 (Introduction to Aeronomy).

**Minor course revisions**
**PHYS 821.3 Introduction to Aeronomy**
Add Note: Students with may receive credit for only one of PHYS 821 or PHYS 422.
Rationale: PHYS 422 is proposed to be cross-listed with PHYS 821.

**Sociology**

**New course(s):**
**SOC 355.3 Sociology of Friendship Intimacy and Close Ties**
3 Seminar Hours
Examines friendship, intimacy, and close ties from a sociological perspective. Topics explored include conceptualizations of friendship; the influence of social roles, institutions, and structures on close ties; changes to close ties across the life course; the rise of solo living; technological transformations of intimacy; and the future of intimacy.
Prerequisite(s): 12 credit units SOC courses including one of SOC 210.3 or SOC 211.3
Instructor(s): Sarah Knudson

Rationale: Currently, the University of Saskatchewan offers no courses that explore these topics in-depth, though courses with complementary focuses do exist. In the Department of Sociology SOC 210 (Families Social Structure and Social Change), SOC 211 (Families Gender Relations and Social Inequality), SOC 340 (Marriage Family and Society), and SOC 411 (Family I Development in Research and Theory) examine *kinship* ties, without underscoring the significance of intimacy outside of marriage and family. In the Department of Psychology PSY 225 (Group Dynamics and Intergroup Relations), PSY 226 (Social Psychology), and PSY 425 (Advanced Seminar in Group Dynamics and Intergroup Relations) examine patterns of cognition and behavior within *social environments,* but without a focus on personal relationships and abstracted from the specific social roles, institutions, and structures that inform people's personal ties. In addition to these courses, the Departments of Psychology and Philosophy offer PSY 227 (Human Sexuality) and PHIL 224 (Philosophy of Sexuality) that touch on *sexual* intimacy without consideration of other domains of intimacy or the social forces that shape them. In response to these current gaps, the proposed course would uniquely offer an in-depth, non-atomized, and socio-culturally contextualized exploration of friendship, close ties, and intimacy.

## Women's and Gender Studies

**Minor program revisions**
**Bachelor of Arts Honours, Double Honours, Four-year, Three-year and Minor in Women's and Gender Studies**
Add INDG 230 as a course option in the major, as shown below.

**Bachelor of Arts Honours (B.A. Honours) - Women's and Gender Studies**
**B4 Major Requirement (48 credit units)**

- **WGST 112.3** Introduction to Womens and Gender Studies
- **WGST 311.3** Contemporary Feminist Theories
- **WGST 312.3** Feminist Research Methodologies
- **WGST 400.0** Honours Colloquium

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

- **HIST 259.3** Canadian Women from Pre Contact Period to 1918
- **HIST 260.3** Canadian Women History from 1919 to Present
- INDG 216.3
- INDG 230.3 Gender in Traditional and Contemporary Indigenous Societies
- **INDG 255.3** Cultural Survival of Aboriginal Family
- **INDG 256.3** A Critical Survey of the History of Indigenous Child Welfare in Canada
- **INDG 320.3** Transnational Indigenous Activism
- **INDG 330.3** Critical Perspectives on Indigenous Sexualities and the Law

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

- **WGST — 400-Level**

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

At least **12 credit units** must be at the 300- level or above.

- **ANTH 310.3** Anthropology of Gender
- **ANTH 332.3** Anthropology of Contagion and Infectious Disease Critical Gender and Race Perspectives

- …
- **HIST 434.3** Fascism Gender and Sexuality
- INDG 216.3
- INDG 230.3 Gender in Traditional and Contemporary Indigenous Societies
- **INDG 255.3** Cultural Survival of Aboriginal Family
- **INDG 256.3** A Critical Survey of the History of Indigenous Child Welfare in Canada
- …
- **SOC 344.3** Sociology of Women Gender and Development
- **WGST — 200-Level, 300-Level, 400-Level**

**Bachelor of Arts Four-year (B.A. Four-year) - Women's and Gender Studies**
**B4 Major Requirement (36 credit units)**

- **WGST 112.3** Introduction to Womens and Gender Studies
- **WGST 311.3** Contemporary Feminist Theories
- **WGST 312.3** Feminist Research Methodologies

Choose 3 credit units from the following:

- **HIST 259.3** Canadian Women from Pre Contact Period to 1918
- **HIST 260.3** Canadian Women History from 1919 to Present
- INDG 216.3
- INDG 230.3 Gender in Traditional and Contemporary Indigenous Societies
- **INDG 255.3** Cultural Survival of Aboriginal Family
- **INDG 256.3** A Critical Survey of the History of Indigenous Child Welfare in Canada
- **INDG 320.3** Transnational Indigenous Activism
- **INDG 330.3** Critical Perspectives on Indigenous Sexualities and the Law

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

- **WGST — 400-Level**

Choose **21 credit units** from the following:

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

- **ANTH 310.3** Anthropology of Gender
- **ANTH 332.3** Anthropology of Contagion and Infectious Disease Critical Gender and Race Perspectives
- …
- **HIST 434.3** Fascism Gender and Sexuality
- INDG 216.3
- INDG 230.3 Gender in Traditional and Contemporary Indigenous Societies
- **INDG 255.3** Cultural Survival of Aboriginal Family
- **INDG 256.3** A Critical Survey of the History of Indigenous Child Welfare in Canada
- …
- **SOC 344.3** Sociology of Women Gender and Development
- **WGST — 200-Level, 300-Level, 400-Level**

## Bachelor of Arts Three-year (B.A. Three-year) - Women's and Gender Studies

**B4 Major Requirement (30 credit units)**

- **WGST 112.3** Introduction to Womens and Gender Studies
- **WGST 311.3** Contemporary Feminist Theories
- **WGST 312.3** Feminist Research Methodologies

Choose 3 credit units from the following:

- **HIST 259.3** Canadian Women from Pre Contact Period to 1918
- **HIST 260.3** Canadian Women History from 1919 to Present
- INDG 216.3
- INDG 230.3 Gender in Traditional and Contemporary Indigenous Societies
- **INDG 255.3** Cultural Survival of Aboriginal Family
- **INDG 256.3** A Critical Survey of the History of Indigenous Child Welfare in Canada
- **INDG 320.3** Transnational Indigenous Activism
- **INDG 330.3** Critical Perspectives on Indigenous Sexualities and the Law

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

At least **9 credit units** must be at the 300- level or above.

- **ANTH 310.3** Anthropology of Gender
- **ANTH 332.3** Anthropology of Contagion and Infectious Disease Critical Gender and Race Perspectives
- …
- **HIST 434.3** Fascism Gender and Sexuality
- INDG 216.3
- INDG 230.3 Gender in Traditional and Contemporary Indigenous Societies
- **INDG 255.3** Cultural Survival of Aboriginal Family
- **INDG 256.3** A Critical Survey of the History of Indigenous Child Welfare in Canada
- …
- **SOC 344.3** Sociology of Women Gender and Development
- **WGST — 200-Level, 300-Level, 400-Level**

## Bachelor of Arts Double Honours - Women's and Gender Studies - Major 1

**B4 Major Requirement (36 credit units)**

- **WGST 112.3** Introduction to Womens and Gender Studies
- **WGST 311.3** Contemporary Feminist Theories
- **WGST 312.3** Feminist Research Methodologies
- **WGST 400.0** Honours Colloquium

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

- **HIST 259.3** Canadian Women from Pre Contact Period to 1918
- **HIST 260.3** Canadian Women History from 1919 to Present
- INDG 216.3
- INDG 230.3 Gender in Traditional and Contemporary Indigenous Societies
- **INDG 255.3** Cultural Survival of Aboriginal Family

- **INDG 256.3** A Critical Survey of the History of Indigenous Child Welfare in Canada
- **INDG 320.3** Transnational Indigenous Activism
- **INDG 330.3** Critical Perspectives on Indigenous Sexualities and the Law

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

- **WGST — 400-Level**

Choose **21 credit units** from the following:

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

- **ANTH 310.3** Anthropology of Gender
- **ANTH 332.3** Anthropology of Contagion and Infectious Disease Critical Gender and Race Perspectives
- …
- **HIST 434.3** Fascism Gender and Sexuality
- INDG 216.3
- INDG 230.3 Gender in Traditional and Contemporary Indigenous Societies
- **INDG 255.3** Cultural Survival of Aboriginal Family
- **INDG 256.3** A Critical Survey of the History of Indigenous Child Welfare in Canada
- …
- **SOC 344.3** Sociology of Women Gender and Development
- **WGST — 200-Level, 300-Level, 400-Level**

## Bachelor of Arts Double Honours - Women's and Gender Studies - Major 2

**Requirements (36 credit units)**

- **WGST 112.3** Introduction to Womens and Gender Studies
- **WGST 311.3** Contemporary Feminist Theories
- **WGST 312.3** Feminist Research Methodologies
- **WGST 400.0** Honours Colloquium

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

- **HIST 259.3** Canadian Women from Pre Contact Period to 1918
- **HIST 260.3** Canadian Women History from 1919 to Present
- INDG 216.3
- INDG 230.3 Gender in Traditional and Contemporary Indigenous Societies
- **INDG 255.3** Cultural Survival of Aboriginal Family
- **INDG 256.3** A Critical Survey of the History of Indigenous Child Welfare in Canada
- **INDG 320.3** Transnational Indigenous Activism
- **INDG 330.3** Critical Perspectives on Indigenous Sexualities and the Law

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

- **WGST — 400-Level**

Choose **21 credit units** from the following:

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

- **ANTH 310.3** Anthropology of Gender
- **ANTH 332.3** Anthropology of Contagion and Infectious Disease Critical Gender and Race Perspectives
- …
- **HIST 434.3** Fascism Gender and Sexuality
- INDG 216.3
- INDG 230.3 Gender in Traditional and Contemporary Indigenous Societies
- **INDG 255.3** Cultural Survival of Aboriginal Family
- **INDG 256.3** A Critical Survey of the History of Indigenous Child Welfare in Canada
- …
- **SOC 344.3** Sociology of Women Gender and Development
- **WGST — 200-Level, 300-Level, 400-Level**

**Women's and Gender Studies - Minor**
**Requirements (24 credit units)**

- **WGST 311.3** Contemporary Feminist Theories
- **WGST 312.3** Feminist Research Methodologies

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

- **ANTH 310.3** Anthropology of Gender
- **ANTH 332.3** Anthropology of Contagion and Infectious Disease Critical Gender and Race Perspectives
- …
- **HIST 434.3** Fascism Gender and Sexuality
- INDG 216.3
- INDG 230.3 Gender in Traditional and Contemporary Indigenous Societies
- **INDG 255.3** Cultural Survival of Aboriginal Family
- **INDG 256.3** A Critical Survey of the History of Indigenous Child Welfare in Canada
- …
- **SOC 344.3** Sociology of Women Gender and Development
- **WGST — 200-Level, 300-Level, 400-Level**

Rationale: INDG 230 is an appropriate course to fulfill the history requirement for WGST.

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**Items for Information**

**Chinese**

**Minor course revisions:**
**CHIN 114.3 Introductory Chinese I**
**CHIN 117.3 Introduction to Chinese II**
**CHIN 202.3 Intermediate Chinese I**
**CHIN 204.3 Intermediate Chinese II**
**CHIN 214.3 Advanced Intermediate Chinese I**
**CHIN 217.3 Advanced Intermediate Chinese II**
Remove restriction: Permission of the Department

Rationale: Students must read the Catalogue description to ensure that they are not overqualified to take this course. Permission is not required to regulate this, as it is not required for other language courses.

**CHIN 216.3 Introduction to Classical Chinese Language and Literature I**
Remove restriction: Permission of the Department
Change Note:
Old Note: Students who are fluent in Chinese may not take this course for credit. Students with credit for CHIN 130 may not take CHIN 216 for credit.
New Note: Students with credit for CHIN 130 may not take CHIN 216 for credit.
Rationale: All language courses which focus on literature, culture, or cinema are open to students at a more advanced level including those who are fluent in the language. All students who have the prerequisites may register.

**CHIN 218.3 Introduction to Classical Chinese Language and Literature II**
Remove restriction: Permission of the Department
Change Note:
Old Note: Students who are fluent in Chinese may not take this course for credit. Students with credit for CHIN 130 may not take CHIN 218 for credit.
New Note: Students with credit for CHIN 130 may not take CHIN 218 for credit.
Rationale: See CHIN 216.

## French

**Minor course revisions:**
**FREN 205.3 The Sound and Word System of Contemporary French**
**FREN 305.3 Meaning and the Structure of Modern French**
Prerequisite change:
Old prerequisite(s): FREN 125 or FREN 212; and LING 111.3
New prerequisite(s): FREN 125 or FREN 212
Rationale: The majority of students entering this course are receiving a prerequisite waiver for LING 111, as we have found that students do not need that course to be successful. Removing LING 111 as a prerequisite will ensure that all students are following the same rules, and will save administrative time to process the waivers.

## Physics

**Minor course revisions**
**PHYS 383.3 Quantum Mechanics I**
Prerequisite change:
Old prerequisite(s): MATH 331
New prerequisite(s): MATH 331 or MATH 339
Rationale: MATH 331 is no longer a prerequisite for MATH 339. Either MATH 331 or 339 provide Physics students with the knowledge and skills for solving differential equations that are necessary for PHYS 383. This change will give students more flexibility in completing the requirements for the Physics programs.

**College of Education – November 2021 University Course Challenge**

The curricular revisions listed below were approved by the College of Education Faculty Council on Friday, October 29, 2021 and are now submitted to the University Course Challenge for approval.

Contact: Arvelle Van Dyck (arvelle.vandyck@usask.ca)

## Pre-requisite and Co-requisite Updates

### EPSE 348.3: Essentials of Assessing Student Learning

Revision: To require EPSE 202.3: Psychological Foundations of Teaching and Learning (or equivalent) as the pre-requisite and (ECUR 307.3 or ECUR 308.3) or (ECUR 309.3 or ECUR 310.3) or (ECUR 320.3 or ECUR 325.3) as the pre- or co-requisite.

**EPSE 348.3: Essentials of Assessing Student Learning**
Provides training in the skills involved in assessing student achievement. Students will learn how to construct various measuring devices such as paper and pencil tests, performance tests, assignments, portfolios, and observation schedules. Students will also learn how to summarize, interpret and report assessment results.

**Weekly hours:** 3 Lecture hours
**Restriction(s):** Restricted to students in the College of Education.
**Prerequisite(s)** ~~**or Corequisite(s):** EPSE 202, or EPSE 258, or EDUC 302, or EPSE 337, or EPSE 390, or EPSE 302 or departmental approval.~~
EPSE 202 or EPSE 258 or EPSE 302 or EDUC 302 or departmental approval.
**Prerequisite(s) or Corequisite(s):**
(ECUR 307.3 or ECUR 308.3) or (ECUR 309.3 or ECUR 310.3) or (ECUR 320.3 or ECUR 325.3).
Students pursuing the B.Ed. Direct Entry Program must complete EFDT 101.3; ECUR 163.3 or ECUR 164.3 or ECUR 165.3; EFDT 265.3 or ECUR 265.3.~~; EPSE 202.3.~~
**Note:** Please note that students can receive credit for only one of EPSE 348, EPSE 448, or EPSY 448.

### EPSE 390.3: Exceptional Learners

Revision: To require EPSE 202.3: Psychological Foundations of Teaching and Learning (or equivalent) as the pre-requisite.

**EPSE 390.3: Exceptional Learners**
Introduces students to the concept of exceptionality as it reflects the special needs of individuals for whom they will be responsible in their classrooms, schools, and communities. The philosophy of inclusion will be emphasized. Students will learn how to identify and provide appropriate learning opportunities for children with special needs and ensure that they receive additional services to which they are entitled by the Saskatchewan Education Act and current Regulations. Students will become sensitive to cultural differences, the need to work with families and the importance of early intervention to prevent or ameliorate disability. This course addresses three of the six semester hours required by the Saskatchewan Professional Teachers Regulatory Board (SPTRB) related to Educational Psychology content for teacher certification.

**Weekly hours:** 3 Lecture hours
**Prerequisite(s)** ~~**or Corequisite(s):**~~ EPSE 202, or EPSE 258, EDUC 302, or EPSE 302 or departmental approval.
**Prerequisite(s) or Corequisite(s):** Students pursuing the B.Ed. Direct Entry Program must complete EFDT 101.3; ECUR 163.3 or ECUR 164.3 or ECUR 165.3; EFDT 265.3 or ECUR 265.3.~~; EPSE 202.3~~.

## Revisions to Catalogue Entries for Teaching Areas

### Visual Arts Teaching Areas 1 and 2 (Secondary Level)

Rationale: Although the requirement to have six credit units in two different studio areas is included in the current Visual Arts listings, students can easily miss the requirement for the two different studio areas since it is lumped in with other Art (ART) and Art History (ARTH) course requirements. This change will provide clarity for our Secondary students with a Teaching Area of Visual Arts.

**Secondary Teaching Area 1 - Visual Arts**
Please Note: any 100-level course taken after the first 6 credit units will be counted as a senior course.

**Choose 6 credit units from the following Art History courses:**

- ARTH — 100-Level, 200-Level, 300-Level, 400-Level

**Choose 6 credit units from the following Art courses (2 different studio areas):**

- ART — 100-Level, 200-Level, 300-Level, 400-Level

**Choose ~~18~~ 12 credit units from the following Art or Art History courses:**

- ART — 100-Level, 200-Level, 300-Level, 400-Level
- ARTH — 100-Level, 200-Level, 300-Level, 400-Level

**Secondary Teaching Area 2 - Visual Arts**
Please Note: any 100-level course taken after the first 6 credit units will be counted as a senior course.

**Choose 6 credit units from the following Art History courses:**

- ARTH — 100-Level, 200-Level, 300-Level, 400-Level

**Choose 6 credit units from the following Art courses (2 different studio areas):**

- ART — 100-Level, 200-Level, 300-Level, 400-Level

**Choose ~~9~~ 3 credit units from the following Art or Art History courses:**

- ART — 100-Level, 200-Level, 300-Level, 400-Level
- ARTH — 100-Level, 200-Level, 300-Level, 400-Level

### Physical Education Teaching Area 1 (Secondary Level)

Rationale: Often prospective students wish to select Physical Education as their Teaching Area 1 at the Secondary level. Only those students in the B.Sc. Kinesiology/B. Education Combined Program and graduates of the B.Sc. Kinesiology program are permitted to choose Physical Education as their Teaching Area 1. Thus, additional text may provide some clarity to prospective students.

**Physical Education**

To become a secondary physical education teacher, see the five-year combined B.Sc.(Kin.)/B.Ed. program.

Graduates of the B.Sc. in Kinesiology may apply to the B.Ed. program using their best 24 credit units of 3 or 6 credit unit Kinesiology courses to comprise their first teaching area. **In order to hold a teaching area of Physical Education at the Secondary level, students must have a B.Sc. Kinesiology degree.**

- KIN — 100-Level, 200-Level, 300-Level, 400-Level

**CREE courses as part of the Indigenous Studies Teaching Areas 1 and 2 (Early/Middle Years and Secondary Levels)**

Rationale: Currently, students with a Teaching Area 1 or 2 of Indigenous Studies are permitted to use up to **6 credit units** of CREE (i.e., CREE 101.6 or CREE 110.3) to meet the teaching area requirements. At times, students have had other CREE courses at the 200-level or above. This change will allow CREE courses at the 100-, 200-, 300- or 400-level to be used toward the Indigenous Studies Teaching Area requirements.

**Catalogue Entry**
**Early/Middle Years and Secondary**
**Teaching Area 1 and 2 – Indigenous Studies**

Students may choose up to **6 credit units** of the following

- ~~CREE 101.6 Introductory Cree Introductory Cree~~
- ~~CREE 110.3 nehiyawetan Let Us Speak Cree nehiyawetan Let Us Speak Cree~~
- CREE –100-Level, 200-Level, 300-Level, 400-Level

UNIVERSITY OF SASKATCHEWAN
College of Graduate and Postdoctoral Studies
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# UNIVERSITY COURSE CHALLENGE SUBMISSION NOVEMBER 2021

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

## Minor Program Revisions:

**Masters of Music in Performance (Conducting)**
*Alternate program requirement:* Students enrolled in the Choral conducting stream may now choose to complete MUS 828 Choral Conducting Pedagogy instead of MUS 838 Advanced Seminar in Instrumental Conducting. The program will be adjusted as follows:

**Master of Music in Performance (Conducting Concentration)**
Note: Additional Selection Criteria for the Conducting Concentration:

- Applicants will audition by submission of a video recording demonstrating their conducting ability.

Students must maintain continuous registration in the 992 course.

- **GPS 960.0** Introduction to Ethics and Integrity
- **GPS 961.0** Ethics and Integrity in Human Research
- **GPS 962.0** Ethics and Integrity in Animal Research
- **MUS 990.0** Music Forum
- **MUS 992.0** Project for Master of Music Performance Majors

A minimum of **24 credits units**, including the following:

- **MUS 811.3** Applied Performance Seminar I
- **MUS 812.3** Applied Performance Seminar II
- **MUS 813.3** Applied Performance Seminar III
- **MUS 814.3** Applied Performance Seminar IV
- **MUS 838.3** Advanced Seminar in Instrumental Conducting or **MUS 828.3** Choral Conducting Pedagogy

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

    - **MUS 821.3** Pedagogy of Music History and Musicology: Materials, Methods, and Curriculum Development

- **MUS 845.3** Seminar in Music Analysis
- **MUS 853.3** Seminar in Musicology I
- **MUS 854.3** Seminar in Musicology II
- **MUS 822.3** Seminar in Shenkerian Theory
- **MUS 855.3** Seminar in 20th Century Music Theory

- 6 credit units of electives approved by the student's advisory committee

**Masters in International Public Management and Administration**
This is a joint program with the Johnson Shoyama Graduate School and the Education University of Hong Kong. The program was approved at the University of Saskatchewan in February 2020; the program start has been delayed because of COVID. It is anticipated that the first students will begin the program in January 2023.

The capstone course intended to be used for the program, formerly titled JSGS 992.6 Capstone Project is being revised to JSGS 992.3 Capstone: Placement Project- Phase II. Students will now complete Phase I (3 credit units) of their capstone project at the Education University of Hong Kong. Students will continue to complete 30 credit units at the U of S but will also be transferring five courses taught at the Education University of Hong Kong rather than three. The two additional courses will be PPG6006 Project Appraisal and Impact Analysis, and PPG6011 Human Resource Management.

**Course Revision**:

JSGS 992 will now be revised to carry 3 credit units. Changes to course credit units normally require the allocation of a new course number; however, JSGS 992 has never been offered. As a result, the number should be retained and the credit units should be adjusted to reflect the amount of instruction. The course will be revised as follows:

~~**JSGS 992.6**~~ **JSGS 992.3 Capstone Placement Project Phase II**

The Capstone Project provides students the opportunity to apply the theory and practice of international public management gained in the M.I.P.M.A. program to a major project of the student's choice. The capstone class is a team-based professional experience that caps off a professional degree.

Restriction(s): Restricted to students enrolled in the Master of International Public Management and Administration (M.I.P.M.A.) program.

**New Course Proposals:**

**EE 848.3 Advanced Renewable Energy and Power Systems**
Covers photovoltaic (PV) power technology including equivalent circuits and characteristics of PV cells, modules and arrays, PV current-voltage (I-V) curves, stand-alone and grid-connected PV systems; wind power technology including power in the wind assessment, wind turbine

power curves, wind turbine energy production estimation; energy storage; microgrids; and energy conversion systems.
*Prerequisite:* department approval required
*Hybrid*: with new course EE 448
*Instructor:* Xiaodong Liang
*Rationale:* Renewable energy is a growing part of electric power generation but presents challenges for planning, operating, and controlling an electric power system. Graduate students of the Electrical Engineering who specialize in electric power need to have exposure to advantages and difficulties of incorporating renewable energy in our modern power grids. This course provides a thorough study of renewable energy which will make our graduate students more attractive to the power industry, and facilitate their research in this important area. Currently there is no graduate course dedicated to renewable energy.

**GEOG 862.3 Social Hydrology**
This course explores the feedback mechanisms between hydrological and social systems, the implications for sustainable water management and sustainable societies, and the theoretical frameworks that have emerged at this interface.
*Prerequisite:* none
*Instructor:* Corinne Schuster-Wallace
*Rationale:* This course examines water from physical and social system perspectives. The topic is not currently taught at the university. It is an area of expertise required by my graduate students and is likely to be of interest to other students undertaking water research. The course will further complement the proposed graduate program in hydrology, providing an elective opportunity. The University of Saskatchewan is highly ranked for water resouces research and attracts a significant number of graduate students as a consequence.

**PLSC 840.3 Climate Smart Agriculture**
This course will cover greenhouse gas dynamics, carbon footprinting, nutrient and water use efficiency, carbon-based policies, plant and soil health management. Students will be exposed to state-of-the-art research, mitigation and adaptation potentials, and future directions.
*Prerequisite:* none
*Instructor:* Kate Congreves
*Hybrid*: with PLSC 440
*Rationale:* At present, AgBio does not offer a graduate course focused on Climate-Smart Agriculture where students learn – in detail – about how greenhouse gases are produced and what exactly goes into determining carbon footprints of cropping systems. Given the recent shift in consumer attitudes towards valuing environmentally friendly products, and the new carbon-based policies throughout Canada and the world, it is time that AgBio students graduate with up-to-date knowledge and understanding of greenhouse gas production, carbon footprinting, as well as Climate-Smart management practices.

**<u>Course modifications affecting another college:</u>**

**Physics and Engineering Physics**
CGPS has approved a revision to the Catalogue listing of **PHYS 821 Introduction to Aeronomy** to note that this course will be hybrid to the new undergraduate course PHYS 422.

**Items for information:**
The following items for information have been approved by the college:

**CMPT 830.3 Bioinformatics and Computational Biology**
Old prerequisite: A previous BINF class, or at least 6 credit units of previous course work in each of computer science, statistics and the life sciences
New prerequisite: Open to students in computer science, life sciences, and natural sciences, but subject to permission of the instructor.

**JSGS 803.3 Quantitative Methods**
Old prerequisite: Students must have successfully completed an undergraduate course in statistics.
New prerequisite: None

**JSGS 863.3** Old title: Aboriginal Peoples and Public Policy
New title: **Indigenous Peoples and Public Policy**

**PSY 807.3 Multivariate Statistics (Statistics III)**
Old prerequisite: none
New prerequisite: PSY 805 Statistics I Univariate General Linear Models

**EFDT 817.3** Old title and description: Trends and Issues in Continuing Education
Some currently important aspects of the field of adult education are reviewed and analyzed.
New title and description: **Trends and Issues in Foundations of Education**
Some currently important aspects of the field of educational foundations are reviewed and analyzed.

**EFDT 819.3** Old title: Research Methods in Continuing Education
New title: **Research Methods in Educational Foundations**

**EFDT 846.3** Old title: Aboriginal Languages and Linguistic Diversity in Education
New title: **Indigenous Languages and Linguistic Diversity in Education**

**EFDT 857.3** Old title: Critical Pedagogy, Neoliberalism and the Environment
New title: **Neoliberalism and the Environment**

**Edwards School of Business - University Course Challenge, November 2021**

**For Information**

Minor program revisions for the Bachelor of Commerce (B.Comm.) were approved by UCC in the October 2021 University Course Challenge. They outlined the courses not eligible for credit in the B.Comm., specifically in Years 1 and 2. The following mark-up of the B.Comm. in Finance outlines these changes more fully. **NOTE**: these changes apply to all of the B.Comm. major fields of study including the following: Accounting, Finance, Human Resources, Management, Marketing, and Supply Chain Management.

**Minor Program Revisions Clarification to October 2021 UCC**

**Bachelor of Commerce (B.Comm.) - Finance**

The Edwards School of Business is a great place to study business in Western Canada. Saskatoon is a vibrant community with a thriving economy and we are committed to providing an outstanding experience to students from around the world.

Students returning to the program after an absence of five years or more will be placed under the curriculum requirements in effect on the date that the student is readmitted to the School. **In 2006 and thereafter, upon first admission to the Edwards School of Business, students must complete the degree requirements within a ten (10) year time period. Under exceptional circumstances, the School may grant an extension.** The *Course & Program Catalogue* material details the new course offerings and the revised program which should be followed by all newly admitted students.

The curriculum exposes students to important business issues starting in the first year of study. Newly admitted students will have a more integrated first year experience with wider exposure to management concepts in key areas such as organizational behaviour, business communications, and decision making. Students entering their third year will specialize in one of six majors and conclude their fourth year with a business policy and an entrepreneurship class.

**Majors**

A student can major in one of six fields: Accounting (33 credit units), Finance (24 credit units), Human Resources (24 credit units), Management (30 credit units), Marketing (24 credit units) or Supply Chain Management (21 credit units). Each major has certain required courses, while some also have elective courses which can be selected from a specified list. Entrance restrictions have been placed on five of the majors (Accounting, Finance, Human Resources, Marketing, Supply Chain Management) with the criterion being academic performance. All students must apply for acceptance to a major through program planning in January of their second year.

**Electives**

Free senior elective credit units vary depending on the major: 12 credit units for Management; 9 credit units for Accounting;; 18 credit units for Finance, Human Resources and Marketing; and 21 credit units for Supply Chain Management. Senior electives may be chosen from Commerce courses (300-level and higher) or non-Commerce courses (200-level and higher) but students must have met the necessary prerequisites. The prerequisites may, in some cases, be junior courses which will not count towards the Bachelor of Commerce degree.

Note: The following courses CANNOT be used in the B.Comm. program: AREC 495.3, MATH 101.3, MATH 150.3. ~~AGRC 290.3, AGRC 291.3, BPBE 320.3, PSY 101.3, all ENT courses.~~

# Year 1 (30 credit units)

- **COMM 100.3** Business Communication I
- **COMM 101.3** Introduction to Business
- **COMM 104.3** Business Statistics I
- **COMM 105.3** Introduction to Organizational Behaviour
- COMM 121.3
- **COMM 204.3** Introduction to Marketing
- **COMM 211.3** Human Resource Management
- COMM 229.3

## Mathematics

**Mathematics**
Students who are particularly strong in Mathematics and who may wish to undertake additional studies in university level Mathematics are encouraged to take **MATH 110.3** Calculus I or **MATH 176.3** Advanced Calculus I. The Edwards School will accept **MATH 110.3** Calculus I, **MATH 121.3** Mathematical Analysis for Business and Economics, **MATH 123.3** Calculus I for Engineers, **MATH 125.3** Mathematics for the Life Sciences, MATH 133.4, or **MATH 176.3** Advanced Calculus I in place of COMM 121.3. Students may choose to take COMM 121.3 plus one of **MATH 110.3** Calculus I or **MATH 176.3** Advanced Calculus I as an elective if the course is completed after COMM 121.3. **MATH 121.3** Mathematical Analysis for Business and Economics, **MATH 123.3** Calculus I for Engineers, **MATH 125.3** Mathematics for the Life Sciences, or MATH 133.4 cannot be used as electives in the B.Comm. program.

## Statistics Courses

Please note the following regarding Statistics courses:

**COMM 104.3 Business Statistics I**
The following courses can be used in place of COMM 104 in the B.Comm. program and CANNOT be used as non-Commerce electives in the B.Comm. program. Students wishing to pursue further studies in Statistics should review the Arts & Science Statistics Course Regulations and consult with an Academic Advisor.

- **EE 216.3** Probability Statistics and Numerical Methods
- **GE 210.3** Probability and Statistics
- **PLSC 214.3** Statistical Methods
- **PSY 233.3** Statistical Methods in Behavioural Sciences
- **STAT 241.3** Probability Theory
- **STAT 244.3** Elementary Statistical Concepts
- **STAT 245.3** Introduction to Statistical Methods
- **STAT 246.3** Introduction to Biostatistics

**COMM 207.3 Statistics for Business Decisions**
The following courses can be used in place of COMM 207 in the B.Comm. program and CANNOT be used as non-Commerce electives in the B.Comm. program. Students wishing to pursue further studies in Statistics should review the Arts & Science Statistics Course Regulations and consult with an Academic Advisor.

- **STAT 242.3** Statistical Theory and Methodology
- **PSY 234.3** Statistical Methods in Behavioural Sciences

**STAT 103.3**
STAT 103 is NOT equivalent to either COMM 104 or COMM 207, but CAN be used as a non-Commerce elective if taken prior to COMM 104 or an equivalent.

~~**NOTE**: the following courses CANNOT be used in the B.Comm. program.~~

- ~~AGRC 290.3~~
- ~~AGRC 291.3~~
- ~~BPBE 320.3~~
- ~~**MATH 150.3** Mathematics for Early and Middle Years Teachers~~
- ~~**MATH 101.3** Quantitative Reasoning~~
- ~~all ENT classes~~

# Non-COMM Elective

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

- 100-level non-Commerce elective
- ~~PSY 101 will not be accepted for credit~~

## English Language Requirement

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

- **ENG 110.6** Literature and Composition
- **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
- **ESL 116.3** Reading and Writing of Academic Texts
- **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
- **MUS 155.3** Music in History and the Present
- PHIL 115.3
- **PHIL 120.3** Knowledge Mind and Existence
- **PHIL 121.3** Introduction to World Philosophies
- **PHIL 133.3** Introduction to Ethics and Values

# Year 2 (30 credit units)

- **COMM 201.3** Introduction to Financial Accounting
- **COMM 203.3** Introduction to Finance
- **COMM 205.3** Introduction to Operations Management
- **COMM 207.3** Statistics for Business Decisions
- **COMM 210.3** Introduction to Management Accounting
- COMM 213.3
- **ECON 111.3** Introductory Microeconomics
- **ECON 114.3** Introductory Macroeconomics

## Choose 6 credit units from the following:

- non-Commerce electives

## Statistics Courses

Please note the following regarding Statistics courses:

**COMM 104.3 Business Statistics I**
The following courses can be used in place of COMM 104 in the B.Comm. program and CANNOT be used as non-Commerce electives in the B.Comm. program. Students wishing to pursue further studies in Statistics should review the Arts & Science Statistics Course Regulations and consult with an Academic Advisor.

- **EE 216.3** Probability Statistics and Numerical Methods
- **GE 210.3** Probability and Statistics
- **PLSC 214.3** Statistical Methods
- **PSY 233.3** Statistical Methods in Behavioural Sciences
- **STAT 241.3** Probability Theory
- **STAT 244.3** Elementary Statistical Concepts
- **STAT 245.3** Introduction to Statistical Methods
- **STAT 246.3** Introduction to Biostatistics

**COMM 207.3 Statistics for Business Decisions**
The following courses can be used in place of COMM 207 in the B.Comm. program and CANNOT be used as non-Commerce electives in the B.Comm. program. Students wishing to pursue further studies in Statistics should review the Arts & Science Statistics Course Regulations and consult with an Academic Advisor.

- **STAT 242.3** Statistical Theory and Methodology
- **PSY 234.3** Statistical Methods in Behavioural Sciences

**STAT 103.3**
STAT 103 is NOT equivalent to either COMM 104 or COMM 207, but CAN be used as a non-Commerce elective if taken prior to COMM 104 or an equivalent.

~~**NOTE**: the following courses CANNOT be used in the B.Comm. program.~~

- ~~AGRC 290.3~~
- ~~AGRC 291.3~~
- ~~BPBE 320.3~~
- ~~**MATH 150.3** Mathematics for Early and Middle Years Teachers~~
- ~~**MATH 101.3** Quantitative Reasoning~~
- ~~all ENT classes~~

# Year 3 (30 credit units)

## Core Requirements (9 credit units)

- COMM 304.3 Introduction to Business Law
- COMM 306.3 Ethics and Strategic Decision Making
- COMM 347.3 Aboriginal Business in Canada

## Finance Major Requirements (12 credit units)

Finance major requirements will be in effect for students entering the Finance (FIN) major in the 2021-22 academic year. Students currently in the FIN major will be allowed to complete the major requirements for the academic year in which they were admitted.

- COMM 363.3 Intermediate Corporate Finance
- COMM 367.3 Security Analysis and Evaluation

## Choose 6 credit units from the following:

**Finance Major Electives**

- COMM 419.3 Derivative Securities and Risk Management
- COMM 429.3 Personal Financial Planning
- COMM 465.3 Applied Financial Modeling
- COMM 466.3 International Business Finance
- COMM 467.3 Portfolio Theory and Management
- COMM 469.3 Management of Financial Institutions
- COMM 471.3 Applied Investment Management

## Choose 3 credit units from the following:

- Any level non-Commerce elective OR
- 300 level or higher non-COMM

## Choose 6 credit units from the following:

- free senior electives (200-level or higher non-COMM or 300-level or higher COMM)

# Year 4 (30 credit units)

## Core Requirements (6 credit units)

- COMM 401.3 Business Strategy
- COMM 447.3 Entrepreneurship & Venture Development

# Finance Major Requirements (12 credit units)

Finance major requirements will be in effect for students entering the Finance (FIN) major in the 2021-22 academic year. Students currently in the FIN major will be allowed to complete the major requirements for the academic year in which they were admitted.

- **COMM 461.3** Theory of Finance

# Choose 9 credit units from the following:

**Finance Major Electives**

- **COMM 419.3** Derivative Securities and Risk Management
- **COMM 429.3** Personal Financial Planning
- **COMM 465.3** Applied Financial Modeling
- **COMM 466.3** International Business Finance
- **COMM 467.3** Portfolio Theory and Management
- **COMM 469.3** Management of Financial Institutions
- **COMM 471.3** Applied Investment Management

# Choose 12 credit units from the following:

- free senior electives (200-level or higher non-COMM or 300-level or higher COMM)