



Academic Programs Committee of Council

University Course Challenge

Scheduled posting: May 2024

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 and schools:

College of Arts and Science
College of Dentistry
College of Education
College of Engineering
College of Kinesiology
College of Law
College of Graduate and Postdoctoral Studies
College of Pharmacy and Nutrition

Approval: Date of circulation: **May 16, 2024**
Date of effective approval if no challenge received: **May 31, 2024**

Next scheduled posting:

The next scheduled posting will be June 13, 2024, with a submission deadline of **June 11, 2024**. 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.

University Course Challenge – May 2024

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)

Drama

New course(s):

DRAM 272.1 Greystone Theatre Performance II

1/2 This course is available to students who have successfully completed an audition and been cast in one of Greystone Theatre's mainstage productions in a role that has been deemed by the instructor/director to be of sufficient scope to merit 1CUs. Greystone Theatre produces several theatre productions each year. Mainstage productions generally take place twice per term (October, November/December, February, March/April), and rehearse in the evenings for 6 weeks leading up to the production. Students will immerse themselves in the creation of a theatrical production under the guidance of a director and in collaboration with designers, stage managers, and fellow actors. Through physical, vocal, and imaginative exercises, text and character analysis, and improvisation, students will investigate their personal creative process, cultivate an appreciation for the craft of acting, and cultivate collaboration skills while engaging with dramatic works drawn from a range of periods, genres and styles. Prerequisite(s): Drama 118.3; successful completion of an audition; and permission of the department. Prerequisite(s) or Co-requisite(s): DRAM 119.3

Note: Preference will be given to full-time students. Students will be notified of which Greystone Theatre course(s) associated with a particular role at the time of offer. Rehearsals generally take place for four hours every evening Monday-Friday with one weekend rehearsal each week (either Saturday or Sunday afternoons). Greystone Theatre rehearsals take place over Thanksgiving weekend, fall break, and reading week. Outside rehearsal and performance dates are made available at the time of audition, with rehearsal hours being announced when students are offered a role. This course may be repeated twice for total of 3 credit units.

Rationale: This course is being created to encourage continued experiential learning in theatre and performance through Greystone Theatre, and give students who are not pursuing a BFA in Acting the opportunity to earn credit for their involvement. Students have expressed that this would be appreciated given the considerable commitment and learning each show involves.

DRAM 372.2 Greystone Theatre Performance III

1/2 This course is available to students who have successfully completed an audition and been cast in one of Greystone Theatre's mainstage productions in a role that has been deemed by the instructor/director to be of sufficient scope to merit 2CUs. Greystone Theatre produces several theatre productions each year. Mainstage productions generally take place twice per term (October, November/December, February, March/April), and rehearse in the evenings for 6 weeks leading up to the production. Students will immerse themselves in the creation of an theatrical production under the guidance of a director and in collaboration with designers, stage managers, and fellow actors. Through physical, vocal and imaginative exercises, text and character analysis, and improvisation, students will investigate their personal creative process, cultivate an appreciation for the craft of acting, and cultivate collaboration skills while engaging with dramatic works drawn from a range of periods, genres and styles. Prerequisite(s): Drama 119.3; successful completion of an audition; and permission of the department. Prerequisite(s) or Co-requisite(s): DRAM 218.3

Note: Preference will be given to full-time students. Students will be notified of which Greystone Theatre course(s) associated with a particular role at the time of offer. Rehearsals generally take place for four hours every evening Monday-Friday with one weekend rehearsal each week (either Saturday or Sunday afternoons). Greystone Theatre rehearsals take place over Thanksgiving weekend, fall break, and reading week. Outside rehearsal and performance dates are made available at the time of audition, with

rehearsal hours being announced when students are offered a role. This course may be repeated twice for a total of 6 credit units.

Rationale: This course is being created to encourage continued experiential learning in theatre and performance through Greystone Theatre, and give students who are not pursuing a BFA in Acting the opportunity to earn credit for their involvement as a performer. Students have expressed that this would be appreciated given the considerable commitment and learning each show involves. This course specifically will be available to students who are cast in more substantial roles, thus requiring greater commitment in terms of rehearsal hours, memorization, research, etc.

Environment and Society

New course(s):

GEOG 431.3 Climate Adaptation and Justice

1 (15S) The disproportionate level of impacts that communities around the world, who have contributed least to the problem of greenhouse gas emissions face, is one of the core injustices at the heart of the climate change reality. What's more, the systems which are responsible for economic inequality and various forms of social and racial injustice, are also the systems which perpetuate the problem of climate change. It is of critical importance that in creating solutions going forward we not only acknowledge but also act to address and centre the complexity between climate change and injustice across the world.

Prerequisite(s): 9 credit units of GEOG courses including at least 3 credit units at the 200-level or higher; permission of the instructor; minimum of 60 credit units of university coursework; and 70% average in the major before departure. Restricted to students majoring in Anthropology, Biology, Environment and Society, Environmental Biology, Environmental Geoscience, Health Studies, History, Hydrology, Indigenous Studies, Political Studies, or Sociology, or who are pursuing a certificate in Geomatics or Global Studies.

Note: This course is held in Costa Rica as part of a study term abroad and is part of the international experiential learning opportunities offered in the College of Arts and Science.

Instructor(s): Corinne Schuster-Wallace; University for Peace faculty

Rationale: This course is part of a study abroad term at the United Nations University for Peace in Costa Rica. Students will take five courses for a total of 15 credit units. In the event of a student being unable to complete the full term, partial credit could be applied. Students who complete the five courses would be eligible for a certificate from the University for Peace. The program would be led by the Study Abroad Office through the Department of Geography and Planning. This term abroad offers USask students a unique experience - to learn about the UN system from within the UN, to engage with students from around the world in a unique academic setting, and to learn about environment and development through a transdisciplinary approach.

The UN University for Peace is located in El Rodea, Costa Rica, near Ciudad Colon which is a 40-minute drive from San Jose. It was established by UN charter in 1980 and has trained more than 6,000 students from over 120 nations over its more than 40 years of operation. Students are billeted (room, breakfast, and dinner) with local families in Ciudad Colon with families vetted through UPeace in a process that is co-ordinated by UPeace (students are allocated to billets through the university). Students are also provided with a free bus service that transports them to and from campus with buses dropping off and picking up three times per day. Course instructors include faculty members from UPeace, visiting professors from other universities around the world, and UN staff members (see syllabi for more information). The university is committed to transdisciplinary education and utilises seminar, group, and experiential learning in a unique global classroom environment.

Dr. Corinne Schuster-Wallace will serve as the instructor of record for all of the USask courses that comprise the term abroad. In this capacity she will be responsible for 1) vetting the students so that students who participate in the term abroad are set up for success and will not jeopardise the inter-university relationship; and 2) converting the UPeace grades according to the conversions in the syllabi and reporting the final grades in the USask system.

GEOG 451.3 Origins and Development of Peace Studies

1 (15S) This is the foundational course for all UN University for Peace programs. As such, it is the core course for the term abroad. Based on a critical analysis of policies, strategies, institutions, organizations, and movements, the course examines a range of core issues, dimensions, perspectives, and paradigms for understanding the root causes of conflicts and violence and constructive strategies to address them and build peace in contemporary global, international, regional, national and local contexts.

Prerequisite(s): 9 credit units of GEOG courses including at least 3 credit units at the 200-level or higher; permission of the instructor; minimum of 60 credit units of university coursework; and 70% average in the major before departure. Restricted to students majoring in Anthropology, Biology, Environment and Society, Environmental Biology, Environmental Geoscience, Health Studies, History, Hydrology, Indigenous Studies, Political Studies, or Sociology, or who are pursuing a certificate in Geomatics or Global Studies.

Note: This course is held in Costa Rica as part of a study term abroad and is part of the international experiential learning opportunities offered in the College of Arts and Science.

Instructor(s): Corinne Schuster-Wallace; University for Peace faculty

Rationale: See GEOG 431 above.

GEOG 461.3 Environment Conflict and Sustainability

1 (15S) This course analyzes the connections between environment, conflict, and security. After briefly going over some of the root causes of environmental and development crises, we will take a closer look at the different linkages between environmental change and human and national security, and armed or violent conflicts. We will discuss and analyze the initial understandings of environmental security, going from older frameworks of scarcity induced conflicts to natural resource abundance, and then move the discussion towards securitizing climate change, conservation conflicts, the increasingly visible violence suffered by environmental defenders, and end with the topic of environmental peacebuilding.

Prerequisite(s): 9 credit units of GEOG courses including at least 3 credit units at the 200-level or higher; permission of the instructor; minimum of 60 credit units of university coursework; and 70% average in the major before departure. Restricted to students majoring in Anthropology, Biology, Environment and Society, Environmental Biology, Environmental Geoscience, Health Studies, History, Hydrology, Indigenous Studies, Political Studies, or Sociology, or who are pursuing a certificate in Geomatics or Global Studies.

Note: This course is held in Costa Rica as part of a study term abroad and is part of the international experiential learning opportunities offered in the College of Arts and Science.

Instructor(s): Corinne Schuster-Wallace; University for Peace faculty

Rationale: See GEOG 431 above.

GEOG 471.3 Forest Forestry and Poverty

1 (15S) Deforestation is considered one of the main global environmental challenges of our times, because of its significant impact on biodiversity, on the livelihoods of millions of people and its important contribution to Climate Change. This course analyzes the way deforestation and forest degradation have been and are being explained by both mainstream and alternative narratives. It critically engages with the way deforestation is defined and measured and discusses the various attempts to stop or reduce it. Additionally, this course looks at the links between poverty and forest cover dynamics, some of the possible strategies to reduce poverty through forest-based activities and analyzes and discusses the importance of forests for humans and the challenges faced by those who try to manage them sustainably.

Prerequisite(s): 9 credit units of GEOG courses including at least 3 credit units at the 200-level or higher; permission of the instructor; minimum of 60 credit units of university coursework; and 70% average in the major before departure. Restricted to students majoring in Anthropology, Biology, Environment and Society, Environmental Biology, Environmental Geoscience, Health Studies, History, Hydrology, Indigenous Studies, Political Studies, or Sociology, or who are pursuing a certificate in Geomatics or Global Studies.

Note: This course is held in Costa Rica as part of a study term abroad and is part of the international experiential learning opportunities offered in the College of Arts and Science.

Instructor(s): Corinne Schuster-Wallace; University for Peace faculty

Rationale: See GEOG 431 above.

GEOG 481.3 The United Nations System

1 (18S) The course is intended to familiarize students with the creation, objectives, evolution, main entities, and principal areas of work of the United Nations system. The course will look in some detail at the United Nations Charter and the functions of the UN's principal organs, before delving into the UN's work in spurring cooperation to address a number of key contemporary global challenges, such as those in the areas of sustainable development, climate change and environmental protection, humanitarian assistance [and refugee flows], human rights and gender equality.

Prerequisite(s): 9 credit units of GEOG courses including at least 3 credit units at the 200-level or higher; permission of the instructor; minimum of 60 credit units of university coursework; and 70% average in the major before departure. Restricted to students majoring in Anthropology, Biology, Environment and Society, Environmental Biology, Environmental Geoscience, Health Studies, History, Hydrology, Indigenous Studies, Political Studies, or Sociology, or who are pursuing a certificate in Geomatics or Global Studies.

Note: This course is held in Costa Rica as part of a study term abroad and is part of the international experiential learning opportunities offered in the College of Arts and Science.

Instructor(s): Corinne Schuster-Wallace; University for Peace faculty

Rationale: See GEOG 431 above.

Minor course revisions

GEOG 120.3 Introduction to Global Environmental Systems

Prerequisite change:

Current prerequisite(s): n/a

New prerequisite(s): Pre-Calculus 30 or MATH 102.3.

Change to Note:

Current Note: A background in high school sciences at the 30-level is recommended.

New Note: Chemistry 30, Biology 30, or Physics 30 are recommended. This course may be used as an Earth Science Cognate Requirement in B.Sc. programs. This course may be used as a Science course in the Breadth Requirement for B.A., B.F.A., and BMus programs. This course may be used as a List 2 Science Elective for some B.E. programs.

New course description: An introduction to processes and interactions in Earth's physical environment with a particular emphasis on the exchange and transformation of energy and matter within global environmental systems. Topics include global radiation and energy balances, atmospheric and oceanic circulation, the hydrological cycle and weather phenomena, the rock cycle and Earth surface processes, global biomes, and biogeochemical cycling in soils. Lab exercises examine the dynamics of Earth surface and atmospheric processes through the application of scientific principles.

Rationale: These changes reflect our efforts to provide students with more explicit information about the course content and the expected background that students have prior to enrolling in the course. The prerequisite change is intended to indicate to prospective students that some background in high school mathematics is expected in the course. The new note change identifies that, while this course is identified as a Science Breadth course by A&S, the content is most appropriate for BSc and BE students. The course description changes are editorial only, and provide a more explicit description of the course.

GEOG 125.3 Environmental Science and Society

New course number: **GEOG 110.3**

Change to Note:

Current Note: A background in high school sciences at the 30-level is recommended.

New Note: This course may be used as a Science course in the Breadth Requirement for B.A., B.F.A., and BMus programs. A background in high school sciences at the 30 level is recommended.

New course description: Studies Earth's life-support systems and the consequences of human activity by exploring the interactions amongst the atmosphere, hydrosphere, lithosphere, and biosphere. Key themes include examining sustainable global food and energy systems, challenges to preserving global biodiversity, the interconnectedness of "human" and "natural" environments, and the impact of climate change on all aspects of life. Students will be challenged to evaluate their own worldviews related to global environmental change.

Rationale: These changes reflect our efforts to provide students with more explicit information about the course content and the expected background that students have prior to enrolling in the course. The

course note change identifies that, while this course is identified as a Science course by Arts & Science, the content is accessible by students in a BA, BFA, or BMus program. The course number change is intended to demonstrate the separation of course content in GEOG 125 from that in GEOG 120. This also lines up the GEOG 100-level courses into 110, 120, 130, and 150. The course description changes are editorial only, and provide a more explicit description of the course.

Geology

Minor course revisions

GEOL 258.3 Structural Geology

New course number: **GEOL 300.3**

Prerequisite change:

Current prerequisite(s): GEOL 121.3; and PHYS 115.3, PHYS 155.3, or PHYS 156.3; and CHEM 112.3, CHEM 114.3, or CHEM 146.3; and MATH 110.3, MATH 123.3, MATH 133.3, or MATH 176.3.

New prerequisite(s): GEOL 121.3; and PHYS 115.3, PHYS 155.3, or PHYS 156.3; and CHEM 112.3, CHEM 114.3, or CHEM 146.3; and MATH 110.3, MATH 123.3, MATH 133.3, or MATH 176.3.

New prerequisites or co-requisites: GEOL 224.3 and GEOL 245.3.

Rationale: The prerequisite changes make clear that students need the essential background of mineralogy and sedimentology (sedimentary rocks) to achieve the learning goals of Structural Geology. Changing the course number will help to convey that this course should be taken in the third year. This move will more equitably distribute the course load, putting students in a better position to succeed in the course and in the program.

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

Drama

Minor course revisions

DRAM 172.0 Greystone Theatre Performance

New title: **Greystone Theatre Performance I**

Rationale: With the introduction of additional performance courses, adding a number at the end will help to signal the level of the course to students.

Linguistics

Minor course revisions

LING 341.3 Semantics

Prerequisite change:

Current prerequisite(s): LING 241 or permission of the department.

New prerequisite(s): LING 111.3 or LING 114.3; and 3 credit units 200-level LING.

New course description: This course will introduce advanced linguistics students to the foundations of word and sentence semantics and to the tools of semantic description. Students will practice field work in Semantics.

Rationale: The change to the prerequisites reflects and formalizes previous practices. Rephrasing the last sentence of the course description better reflects the practical aspect of the fieldwork component of the course.

College of Dentistry – University Course Challenge, May 2024

Item for Information

On March 21, 2024, University Council granted approval of a new Bachelor of Science in Dental Hygiene [B.Sc. (DH)], for implementation in September 2024. The following corrections in red note that the total number of credit units required for completion of the program is 104, rather than 112:

The Bachelor of Science in Dental Hygiene [B.Sc. (DH)]

Program Requirements (~~112~~ 104 credit units)

Students must successfully complete all courses in each year of the program to progress on to the next year and on to graduate.

Year 1 (~~43~~ 44 credit units)

Term 1 (23 credit units)

DEHY 101.2 Dental Hygiene Theory and Practice I

DEHY 102.3 Health Sciences I

DEHY 103.3 Oral Health Sciences I

DEHY 104.3 Behavioural Sciences I

DETH 105.3 General Anatomy and Physiology I

DEHY 106.3 Principles & Practice for Oral Health Professionals

DEHY 108.3 Dental Hygiene Practice I

DENT 388.3 Infection Control in Dentistry

Term 2 (21 credit units)

DEHY 111.3 Dental Hygiene Theory and Practice II

DEHY 112.3 Health Sciences II

DEHY 113.3 Oral Health Sciences II

DEHY 114.3 Behavioural Sciences II

DETH 115.3 General Anatomy and Physiology II

DEHY 116.2 Professional Communication

DEHY 117.1 Indigenous Health and Wellness

DEHY 118.3 Dental Hygiene Practice II

Year 2 (30 credit units)

Term 1 (15 credit units)

DEHY 201.3 Dental Hygiene Theory & Practice III

DEHY 202.3 Health Sciences III

DEHY 203.3 Oral Health Sciences III

DEHY 204.3 Community Practice I

DEHY 208.3 Dental Hygiene Practice III

Term 2 (15 credit units)

DEHY 211.3 Dental Hygiene Theory & Science IV

DEHY 212.3 Health Sciences IV

DEHY 213.3 Oral Health Sciences IV

DEHY 214.3 Community Practice II

DEHY 218.3 Dental Hygiene Practice IV

Year 3 (30 credit units)

Term 1 (15 credit units)

DEHY 301.3

DEHY 302.3

DETH 303.3 Oral Health Sciences V

DEHY 304.3

DEHY 308.3

Term 2 (15 credit units)

DEHY 311.3

DEHY 312.3

DETH 313.3 Oral Health Sciences VI

DEHY 314.3

DEHY 318.3



College of Education May 2024 University Course Challenge

The curricular revisions listed below were approved by the College of Education Faculty Council on Friday, May 10, 2024 and are now submitted to the University Course Challenge for information and approval.

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

Rationale: The College of Agriculture and Bioresources seeks to collaborate with the College of Education to increase options for teacher candidates who are interested in delivering agricultural education in high school and elementary school classrooms. It is anticipated that these course options might be of interest to students planning to teach in rural communities, but also to students planning to teach in urban areas who want more training in the science, social science, and Indigenous studies aspects of agricultural education.

1) To add RRM 312.3: Natural Resource Management and Indigenous Peoples to the Indigenous Studies External Requirement and Indigenous Studies Teaching Areas at the Early/Middle Years and Secondary levels.

External Requirements

B.Ed. – Early/Middle Years and B.Ed. - Secondary

Indigenous Studies

Choose **3 credit units** of Indigenous Studies

Please Note: not required if Indigenous Studies or Social Sciences/Social Studies is a Teaching Area.

INDG 107.3 Introduction to Canadian Indigenous Studies: Introduction to Canadian Indigenous Studies is recommended.

- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
- [ANTH 350.3](#) Introduction to Boreal Forest Archaeology
- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- [DRAM 111.3](#) Practicum I Indigenous Performance Methods
- [ENG 242.3](#) Indigenous Storytelling of the Prairies
- [ENG 243.3](#) Introduction to Indigenous Literatures
- [ENG 335.3](#) The Emergence of Indigenous Literatures in Canada
- [ENG 338.3](#) Contemporary North American Indigenous Literatures
- [GEOG 465.3](#) Environment and Health in Indigenous Communities
- [HIST 193.3](#) History Matters Topics in Canadian History
- [HIST 195.3](#) History Matters Indigenous Perspectives on Canadian History
- [HIST 257.3](#) The Canadian Prairie to 1905
- [HIST 315.3](#) Indigenous Health History
- [HIST 316.3](#) History of the Metis in Twentieth Century Prairie Canada

- [HIST 366.3](#) Indigenous Womens Life Stories in Early North America
- [HIST 367.3](#) Early Indigenous North American Diasporas
- [HIST 432.3](#) Turtle Island Stories From Erasure to Empowerment in Early North American Ethnohistories
- [HIST 468.3](#) Topics in Urban History Saskatoon Indigenous History
- [KIN 306.3](#) Introduction to Indigenous Wellness
- [LING 114.3](#) Indigenous Languages and Stories Introduction to the Structure of Language
- [LING 253.3](#) Indigenous Languages of Canada
- [PLAN 445.3](#) Planning with Indigenous Communities
- [POLS 222.3](#) Indigenous Governance and Politics
- [POLS 323.3](#) Indigenous Policies and Programs
- **RRM 312.3: Natural Resource Management and Indigenous Peoples**
- [SOC 219.3](#) Indigenous Peoples and Justice in Canada
- [SOC 319.3](#) Indigenous People in Urban Areas
- [SOC 341.3](#) Institutional Racism and Indigenous People

Bachelor of Education (B.Ed.)

Early/Middle Years - Teaching Area 1 and 2

Secondary – Teaching Area 1 and 2

Indigenous Studies

Teacher candidates may choose Indigenous Studies OR Social Sciences/Social Studies as a Teaching Area, but cannot choose both.

Choose X credit units from the following Indigenous Studies courses:

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

Choose an additional X credit units from the following Indigenous Studies courses:

- [INDG — 200-Level, 300-Level, 400-Level](#)
- [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
- [ANTH 350.3](#) Introduction to Boreal Forest Archaeology
- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- [DRAM 111.3](#) Practicum I Indigenous Performance Methods
- [ENG 242.3](#) Indigenous Storytelling of the Prairies
- [ENG 243.3](#) Introduction to Indigenous Literatures
- [ENG 335.3](#) The Emergence of Indigenous Literatures in Canada
- [ENG 338.3](#) Contemporary North American Indigenous Literatures
- [GEOG 465.3](#) Environment and Health in Indigenous Communities
- [HIST 193.3](#) History Matters Topics in Canadian History
- [HIST 195.3](#) History Matters Indigenous Perspectives on Canadian History
- [HIST 257.3](#) The Canadian Prairie to 1905
- [HIST 315.3](#) Indigenous Health History
- [HIST 316.3](#) History of the Metis in Twentieth Century Prairie Canada
- [HIST 366.3](#) Indigenous Womens Life Stories in Early North America
- [HIST 367.3](#) Early Indigenous North American Diasporas
- [HIST 432.3](#) Turtle Island Stories From Erasure to Empowerment in Early North American Ethnohistories
- [HIST 468.3](#) Topics in Urban History Saskatoon Indigenous History

- [KIN 306.3](#) Introduction to Indigenous Wellness
- [LING 114.3](#) Indigenous Languages and Stories Introduction to the Structure of Language
- [LING 253.3](#) Indigenous Languages of Canada
- [PLAN 445.3](#) Planning with Indigenous Communities
- [POLS 222.3](#) Indigenous Governance and Politics
- [POLS 323.3](#) Indigenous Policies and Programs
- **[RRM 312.3: Natural Resource Management and Indigenous Peoples](#)**
- [SOC 219.3](#) Indigenous Peoples and Justice in Canada
- [SOC 319.3](#) Indigenous People in Urban Areas
- [SOC 341.3](#) Institutional Racism and Indigenous People

- **Students may choose up to 6 credit units of the following:**
 - [CREE — 100-Level, 200-Level, 300-Level, 400-Level](#)
 - DENE – 100-Level, 200-Level, 300-Level, 400-Level
 - [ECUR 235.3](#) Michif Language Learning and Epistemology: Michif Language Learning and Epistemology
 - Transfer Credit for Indigenous Languages Courses (e.g., XLAN for Saulteaux, Nakota, Dakota, Dene)

- **Students may choose up to 3 credit units of the following:**
 - [ARTH 253.3](#) Indigenous Art History I
 - [ARTH 255.3](#) Indigenous Art History II
 - ARTH 323.3
 - ARTH 345.3
 - [ARTH 355.3](#) Contemporary Aboriginal Art I
 - [ARTH 455.3](#) Contemporary Indigenous Art II

2) To add the following courses to the Science External Requirement and Teaching Areas at the Early/Middle Years level:

- **AGRC 111.3: Introduction to Plant and Soil Sciences**
- **AGRC 112.3: Animal Agriculture and Food Science**
- **AGRC 211.3: Global Food Security**
- **FABS (Food and Bioproduct Sciences) – 100-Level, 200-Level, 300-Level, 400-Level**
- **SLSC (Soil Science) - 100-Level, 200-Level, 300-Level, 400-Level**
- **RMM 215.3: Identification of Saskatchewan Plants and Soils**

**Bachelor of Education
Early/Middle Years
External Requirement**

Science

Choose **3 credit units** of Science

Please Note: not required if Science is a Teaching Area.

*[PLSC 214.3](#) Statistical Methods Statistical Methods is not acceptable toward this requirement.

- [ACB — 200-Level, 300-Level, 400-Level](#)
- **AGRC 111.3: Introduction to Plant and Soil Sciences**
- **AGRC 112.3: Animal Agriculture and Food Science**
- **AGRC 211.3: Global Food Security**
- [ANTH 112.3](#) The Human Journey Introduction to Archaeology and Biological Anthropology
- [ANTH 116.3](#) Introduction to Near Eastern and Classical Archaeology
- [ANTH 241.3](#) Archaeology and Cultural Development Ancient Israel and Syria Late Bronze Age to Hellenistic Period
- [ANTH 250.3](#) Introduction to Archaeological Science
- [ANTH 251.3](#) Introduction to Archaeological Interpretation
- [ANTH 252.3](#) Near Eastern Archaeological Field Work
- [ANTH 257.3](#) Archaeology of Ancient Egypt
- [ANTH 258.3](#) Archaeology of Ancient Mesopotamia
- [ANTH 259.3](#) Archaeology of North America
- [ANTH 270.3](#) Human Evolution
- [ANTH 331.3](#) The Archaeology of Human Environmental Impact
- [ANTH 350.3](#) Introduction to Boreal Forest Archaeology
- ANTH 352.3
- [ANTH 353.3](#) Plains Archaeology
- [ANTH 355.3](#) The Archaeology of Culture Contact
- [ANTH 356.3](#) Development of Complex Cultures in Eastern Mediterranean and Near Eastern Regions
- ANTH 357.3
- [ANTH 359.3](#) Archaeology of the Northwest Coast and Plateau
- [ANTH 360.3](#) Archaeological Resource Management
- [ANTH 361.3](#) Archaeological Field Methods
- [ANTH 365.6](#) Study Abroad Museology and Egyptian Material Culture
- ANTH 383.3
- [ANTH 386.3](#) Computer Applications in Archaeology
- [ANTH 406.3](#) Analysis and Public Exhibition of Cultural Artifacts
- [ANTH 358.3](#) Zooarchaeology I
- [ANTH 458.3](#) Zooarchaeology II
- [ANTH 440.3](#) Archaeology of Food:
- ANTH 459.3
- [ANTH 462.3](#) Contemporary Archaeological Theory

- ANTH 465.3
- [ANTH 370.3](#) Human Osteology
- [ANTH 471.3](#) Forensic Anthropology
- [ANTH 472.3](#) Palaeopathology
- [ANTH 475.3](#) Bioarchaeology
- [ARCH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ASTR — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [BIOL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [BMIS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [BMSC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CHEM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CMPT — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CPPS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [EVSC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- **FABS— 100-Level, 200-Level, 300-Level, 400-Level**
- [GEOL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [NEUR — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHYS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PLSC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- **SLSC - 100-Level, 200-Level, 300-Level, 400-Level**
- [GEOE 375.3](#) Engineering Hydrogeology
- [GEOG 120.3](#) Introduction to Global Environmental Systems
- [GEOG 125.3](#) Environmental Science and Society
- [GEOG 233.3](#) Weather and Climate
- [GEOG 235.3](#) Earth Processes and Natural Hazards A Canadian Perspective
- GEOG 271.3
- [GEOG 280.3](#) Environmental Geography
- [GEOG 322.3](#) Geographic Information Systems
- [GEOG 323.3](#) Remote Sensing
- [GEOG 325.3](#) River Systems
- [GEOG 328.3](#) Groundwater Hydrology
- [GEOG 335.3](#) Glacial Geomorphology
- [GEOG 351.3](#) Northern Environments
- [GEOG 423.3](#) Advanced Remote Sensing
- [GEOG 490.3](#) Honours Thesis in Hydrology or Geomatics
- [INDG 241.3](#) Weaving Indigenous Science and Western Science
- [NUTR 120.3](#) Basic Nutrition
- **RMM 215.3: Identification of Saskatchewan Plants and Soils**
- [TOX 300.3](#) General Principles of Toxicology

**Early/Middle Years
Science
Teaching Area 1 and 2**

Please note: [PLSC 214.3](#) Statistical Methods cannot be used to fulfill this requirement. Also, please note that any 100-level course taken after the first 6 credit units will be counted as a senior course.

Choose X credit units from the following Science courses:

- [ACB — 200-Level, 300-Level, 400-Level](#)
- **AGRC 111.3 Introduction to Plant and Soil Sciences**
- **AGRC 112.3 Animal Agriculture and Food Science**
- **AGRC 211.3 Global Food Security**
- [ANTH 112.3](#) The Human Journey Introduction to Archaeology and Biological Anthropology
- [ANTH 116.3](#) Introduction to Near Eastern and Classical Archaeology
- [ANTH 241.3](#) Archaeology and Cultural Development Ancient Israel and Syria Late Bronze Age to Hellenistic Period
- [ANTH 250.3](#) Introduction to Archaeological Science
- [ANTH 251.3](#) Introduction to Archaeological Interpretation
- [ANTH 252.3](#) Near Eastern Archaeological Field Work
- [ANTH 257.3](#) Archaeology of Ancient Egypt
- [ANTH 258.3](#) Archaeology of Ancient Mesopotamia
- [ANTH 259.3](#) Archaeology of North America
- [ANTH 270.3](#) Human Evolution
- [ANTH 331.3](#) The Archaeology of Human Environmental Impact
- [ANTH 350.3](#) Introduction to Boreal Forest Archaeology
- ANTH 352.3
- [ANTH 353.3](#) Plains Archaeology
- [ANTH 355.3](#) The Archaeology of Culture Contact
- [ANTH 356.3](#) Development of Complex Cultures in Eastern Mediterranean and Near Eastern Regions
- ANTH 357.3
- [ANTH 358.3](#) Zooarchaeology I
- [ANTH 359.3](#) Archaeology of the Northwest Coast and Plateau
- [ANTH 360.3](#) Archaeological Resource Management
- [ANTH 361.3](#) Archaeological Field Methods
- [ANTH 365.6](#) Study Abroad Museology and Egyptian Material Culture
- [ANTH 370.3](#) Human Osteology
- ANTH 383.3
- [ANTH 386.3](#) Computer Applications in Archaeology
- [ANTH 406.3](#) Analysis and Public Exhibition of Cultural Artifacts
- [ANTH 440.3](#) Archaeology of Food
- [ANTH 458.3](#) Zooarchaeology II
- ANTH 459.3
- [ANTH 462.3](#) Contemporary Archaeological Theory
- ANTH 465.3
- [ANTH 471.3](#) Forensic Anthropology
- [ANTH 472.3](#) Palaeopathology
- [ANTH 475.3](#) Bioarchaeology
- [ARCH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ASTR — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [BIOL — 100-Level, 200-Level, 300-Level, 400-Level](#)

- [BMIS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [BMSC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CHEM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CMPT — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CPPS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [EVSC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [**FABS—100-Level, 200-Level, 300-Level, 400-Level**](#)
- [GEOG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [NEUR — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHYS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PLSC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [**SLSC—100-Level, 200-Level, 300-Level, 400-Level**](#)
- [GEOE 375.3](#) Engineering Hydrogeology
- [GEOG 120.3](#) Introduction to Global Environmental Systems
- [GEOG 125.3](#) Environmental Science and Society
- [GEOG 233.3](#) Weather and Climate
- [GEOG 235.3](#) Earth Processes and Natural Hazards A Canadian Perspective
- [GEOG 271.3](#)
- [GEOG 280.3](#) Environmental Geography
- [GEOG 322.3](#) Geographic Information Systems
- [GEOG 323.3](#) Remote Sensing
- [GEOG 325.3](#) River Systems
- [GEOG 328.3](#) Groundwater Hydrology
- [GEOG 335.3](#) Glacial Geomorphology
- [GEOG 351.3](#) Northern Environments
- [GEOG 423.3](#) Advanced Remote Sensing
- [GEOG 490.3](#) Honours Thesis in Hydrology or Geomatics
- [INDG 241.3](#) Weaving Indigenous Science and Western Science
- [NUTR 120.3](#) Basic Nutrition
- [**RRM 215.3 Identification of Saskatchewan Plants and Soils**](#)
- [TOX 300.3](#) General Principles of Toxicology

3) To add the following courses to the Social Sciences/Social Studies External Requirement at the Early/Middle Years level and to the Social Sciences/Social Studies Teaching Areas at the Early/Middle Years and Secondary levels:

- **RRM 312.3: Natural Resource Management and Indigenous Peoples – *Indigenous Studies and Social Sciences/Social Studies Requirement***
- **AGRC 113.3: Introduction to Agri Food Economics – *Social Sciences/Social Studies Requirement***
- **RRM 114.3: Introductory Resource Economics and Policy – *Social Sciences/Social Studies Requirement***

4) To add the following Renewable Resource Management (RRM) courses to the list of courses with Canadian content as part of the Social Sciences/Social Studies Teaching Areas:

- **RRM 114.3: Introductory Resource Economics and Policy**
- **RRM 312.3: Natural Resource Management and Indigenous Peoples**

**Bachelor of Education
Early/Middle Years
External Requirement – Social Sciences/Social Studies**

Social Sciences/Social Studies

Please Note: not required if Social Sciences/Social Studies or Indigenous Studies is a Teaching Area.

[ECON 450.3](#) Strategic Choice, [PSY 233.3](#) Statistical Methods in Behavioural Sciences A, [PSY 234.3](#) Statistical Methods in Behavioural Sciences B, [SOC 225.3](#) An Introduction to Survey Research and Data Analysis in Sociology and [SOC 325.3](#) Applied Quantitative Research in Sociology cannot be used to fulfill this requirement.

Choose **3 credit units** of Social Sciences/Social Studies:

- [ANTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CMRS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CTST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ECON — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [IS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHIL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [POLS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PSY — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RLST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- **AGRC 113.3: Introduction to Agri Food Economics**
- [CLAS 110.3](#) Greek Civilization

- [CLAS 111.3](#) Roman Civilization
- [CLAS 220.3](#) Daily Life in Ancient Greece and Rome
- [CLAS 225.3](#) Women in Antiquity
- [CLAS 240.3](#) Ancient Art and Architecture I Bronze Age to Classical Greece
- [CLAS 242.3](#) Ancient Art and Architecture II Graeco Roman World
- CLAS 248.3
- [GEOG 130.3](#) Environment Health and Planning
- [GEOG 202.3](#) Regional Geography of Canada
- [GEOG 204.3](#) Geography of the Prairie Region
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 280.3](#) Environmental Geography
- GEOG 340.3
- [GEOG 364.3](#) Geography of Environment and Health
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 386.3](#) Environmental Impact Assessment
- GEOG 486.3
- [GEOG 491.3](#) Honours Thesis in Environment and Society
- [PLAN 341.3](#) Urban Planning
- PLAN 342.3
- [PLAN 343.3](#) Legal Issues in Planning
- [PLAN 346.3](#) Introduction to Urban Design
- [PLAN 350.3](#) Transportation Planning and Geography
- [PLAN 442.3](#) Regional Planning
- [PLAN 446.3](#) Advanced Urban Design Studio
- **RRM 114.3: Introductory Resource Economics and Policy**
- **RRM 312.3: Natural Resource Management and Indigenous Peoples**

Social Sciences/Social Studies

Teacher candidates may choose Social Sciences/Social Studies OR Indigenous Studies as a Teaching Area, but cannot choose both.

Please Note: any 100-level course taken after the first 6 credit units will be counted as a senior course.

[ECON 450.3](#) Strategic Choice, [PSY 233.3](#) Statistical Methods in Behavioural Sciences A, [PSY 234.3](#) Statistical Methods in Behavioural Sciences B, [SOC 225.3](#) An Introduction to Survey Research and Data Analysis in Sociology and [SOC 325.3](#) Applied Quantitative Research in Sociology cannot be used to fulfill this requirement.

Choose X credit units from the following Indigenous Studies courses:

[INDG 107.3](#) Introduction to Canadian Indigenous Studies is recommended.

- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
- [ANTH 350.3](#) Introduction to Boreal Forest Archaeology
- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- ARTH 323.3
- ARTH 345.3

- [DRAM 111.3](#) Practicum I Indigenous Performance Methods
- [ENG 242.3](#) Indigenous Storytelling of the Prairies
- [ENG 243.3](#) Introduction to Indigenous Literatures
- [ENG 335.3](#) The Emergence of Indigenous Literatures in Canada
- [ENG 338.3](#) Contemporary North American Indigenous Literatures
- [GEOG 465.3](#) Environment and Health in Indigenous Communities
- [HIST 193.3](#) History Matters Topics in Canadian History
- [HIST 195.3](#) History Matters Indigenous Perspectives on Canadian History
- [HIST 257.3](#) The Canadian Prairie to 1905
- [HIST 315.3](#) Indigenous Health History
- [HIST 316.3](#) History of the Metis in Twentieth Century Prairie Canada
- [HIST 366.3](#) Indigenous Womens Life Stories in Early North America
- [HIST 367.3](#) Early Indigenous North American Diasporas
- [HIST 432.3](#) Turtle Island Stories From Erasure to Empowerment in Early North American Ethnohistories
- [HIST 468.3](#) Topics in Urban History Saskatoon Indigenous History
- [KIN 306.3](#) Introduction to Indigenous Wellness
- [LING 114.3](#) Indigenous Languages and Stories Introduction to the Structure of Language
- [LING 253.3](#) Indigenous Languages of Canada
- [PLAN 445.3](#) Planning with Indigenous Communities
- [POLS 222.3](#) Indigenous Governance and Politics
- [POLS 323.3](#) Indigenous Policies and Programs
- [SOC 219.3](#) Indigenous Peoples and Justice in Canada
- [SOC 319.3](#) Indigenous People in Urban Areas
- [SOC 341.3](#) Institutional Racism and Indigenous People
- **RRM 312.3 Natural Resource Management and Indigenous Peoples**

Choose X credit units from the following History courses:

- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- [INDG 212.3](#) Nehiyaw Tapsinowin Cree Cultural Histories
- [INDG 216.3](#) The Presence of the Past in Contemporary Indigenous Life
- [INDG 280.6](#) Metis History in Western Canada
- [INDG 281.3](#) First Nations History in Western Canada

Choose X credit units from the following Social Sciences/Social Studies courses:

- **AGRC 113.3 Introduction to Agri Food Economics**
- [ANTH 111.3](#) One World Many Peoples Introduction to Cultural Anthropology
- [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
- [ANTH 211.3](#) Cultural Competency in Community Health and Violence Intervention
- [ANTH 224.3](#) North American Plains Ethnography
- [ANTH 226.3](#) Business and Industrial Anthropology
- [ANTH 227.3](#) Cultures of Central and Eastern Europe
- [ANTH 230.3](#) Cultural Dynamics
- [ANTH 231.3](#) Cross Cultural Perspectives on Health and Illness
- [ANTH 235.3](#) Anthropological Approaches to Ethnicity and Ethnic Groups
- [ANTH 240.3](#) Cultural Landscapes and Environments
- [ANTH 244.3](#) Political Ecology Anthropology and Global Environmental Issues
- [ANTH 302.3](#) The Practice of Ethnography
- [ANTH 304.3](#) Anthropology Research Course
- [ANTH 305.3](#) Anthropology Reading Course
- [ANTH 306.3](#) Anthropology of Disaster and Dislocation
- [ANTH 310.3](#) Anthropology of Gender

- [ANTH 311.3](#) Selected Topics in Anthropology
- [ANTH 321.3](#) Myth Ritual and Symbol
- [ANTH 326.3](#) Applied Anthropology
- [ANTH 329.3](#) Environmental Anthropology
- [ANTH 330.3](#) Oral History and Storytelling Anthropological Perspectives
- [ANTH 332.3](#) Anthropology of Infectious Disease
- ANTH 328.3
- [ANTH 339.3](#) Cultural Change, Globalization and Development
- ANTH 379.3
- ANTH 383.3
- [ANTH 390.3](#) Birth and Sex and Death Anthropological Life Course Perspectives
- [ANTH 400.3](#) Contemporary Issues in Archaeology and Anthropology
- [ANTH 401.3](#) Independent Research in Anthropology
- [ANTH 403.3](#) Anthropology of Healing
- ANTH 421.3
- [ANTH 422.3](#) Anthropology in Context Contemporary Influences
- [CMRS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CTST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ECON — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [IS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHIL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [POLS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PSY — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RLST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CLAS 110.3](#) Greek Civilization
- [CLAS 111.3](#) Roman Civilization
- [CLAS 220.3](#) Daily Life in Ancient Greece and Rome
- [CLAS 225.3](#) Women in Antiquity
- [CLAS 240.3](#) Ancient Art and Architecture I Bronze Age to Classical Greece
- [CLAS 242.3](#) Ancient Art and Architecture II Graeco Roman World
- [CLAS 247.3](#)
- [CLAS 248.3](#)
- [GEOG 130.3](#) Environment Health and Planning
- [GEOG 202.3](#) Regional Geography of Canada
- [GEOG 204.3](#) Geography of the Prairie Region
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 340.3](#)
- [GEOG 364.3](#) Geography of Environment and Health
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 386.3](#) Environmental Impact Assessment
- [GEOG 491.3](#) Honours Thesis in Environment and Society
- [PLAN 341.3](#) Urban Planning
- [PLAN 343.3](#) Legal Issues in Planning
- [PLAN 346.3](#) Introduction to Urban Design
- [PLAN 350.3](#) Transportation Planning and Geography
- [PLAN 392.3](#) History of the Built Environment from Antiquity to Early Modernity

- [PLAN 442.3](#) Regional Planning
- [PLAN 446.3](#) Advanced Urban Design Studio
- **RRM 114.3 Introductory Resource Economics and Policy**
- **RRM 312.3: Natural Resource Management and Indigenous Peoples**

Please Note: at least 6 credit units of the total 18 credit units must include Canadian content.

- ANTH courses with Canadian content are:
 - [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
 - [ANTH 350.3](#) Introduction to Boreal Forest Archaeology
 - ANTH 480.3
- AREC courses with Canadian content are:
 - [AREC 220.3](#) History of Indigenous Agriculture in Canada
- DRAM courses with Canadian content are:
 - [DRAM 111.3](#) Practicum I Indigenous Performance Methods
- ECON courses with Canadian content are:
 - [ECON 231.3](#) Co operatives
- ENG courses with Canadian content are:
 - [ENG 242.3](#) Indigenous Storytelling of the Prairies
 - [ENG 243.3](#) Introduction to Indigenous Literatures
 - [ENG 335.3](#) The Emergence of Indigenous Literatures in Canada
 - [ENG 338.3](#) Contemporary North American Indigenous Literatures
- GEOG courses with Canadian content are:
 - [GEOG 202.3](#) Regional Geography of Canada
 - [GEOG 204.3](#) Geography of the Prairie Region
 - GEOG 381.3
 - [GEOG 386.3](#) Environmental Impact Assessment
 - [GEOG 465.3](#) Environment and Health in Indigenous Communities
 - PLAN 342.3
 - [PLAN 343.3](#) Legal Issues in Planning
 - [PLAN 442.3](#) Regional Planning
 - [PLAN 445.3](#) Planning with Indigenous Communities
- HIST courses with Canadian content are:
 - HIST — 100-Level (only those sections containing Canadian content will be considered; consult an academic advisor)
 - [HIST 193.3](#) History Matters Topics in Canadian History
 - [HIST 195.3](#) History Matters Indigenous Perspectives on Canadian History
 - [HIST 255.3](#) Canadian History from the Pre Contact Period to 1867
 - [HIST 256.3](#) Post Confederation Canada 1867 to the Present
 - [HIST 257.3](#) The Canadian Prairie to 1905
 - [HIST 258.3](#) The Canadian Prairies since 1905
 - [HIST 259.3](#) Canadian Womens and Gender History from Pre Contact Period to 1918
 - [HIST 260.3](#) Canadian Womens and Gender History from 1919 to the Present
 - HIST 266.3
 - HIST 310.3
 - [HIST 315.3](#) Indigenous Health History
 - [HIST 316.3](#) History of the Metis in Twentieth Century Prairie Canada
 - [HIST 350.3](#) The War That Shaped a Continent The Seven Years War and the Conquest of Canada
 - [HIST 353.3](#) Pests Plagues Pox and Politics A History of Health Care in Canada
 - [HIST 363.3](#) Canada in Age of Affluence Post 1945
 - [HIST 365.3](#) Recipes for a Nation Food History in Canada

- [HIST 366.3](#) Indigenous Womens Life Stories in Early North America
- [HIST 367.3](#) Early Indigenous North American Diasporas
- [HIST 370.3](#) Violence Smuggling and Vice Borderlands and the Gaps of Power
- [HIST 410.3](#) France in the Americas 1500 to 1803 In Search of Empire
- HIST 415.3
- [HIST 430.3](#) Gender and Sexuality in Western Canada
- [HIST 432.3](#) Turtle Island Stories From Erasure to Empowerment in Early North American Ethnohistories
- HIST 466.3
- [HIST 468.3](#) Topics in Urban History Saskatoon Indigenous History
- KIN course with Canadian content is:
 - [KIN 306.3](#) Introduction to Indigenous Wellness
- LING courses with Canadian content are:
 - [LING 114.3](#) Indigenous Languages and Stories Introduction to the Structure of Language
 - [LING 253.3](#) Indigenous Languages of Canada
- POLS courses with Canadian content are:
 - [POLS 111.3](#) Politics Power and Government
 - [POLS 204.3](#) Canadian Political Institutions
 - [POLS 205.3](#) Canadian Politics and Society
 - [POLS 222.3](#) Indigenous Governance and Politics
 - [POLS 225.3](#) Canadian Public Administration and Administrative Law
 - [POLS 226.3](#) Canadian Public Policy
 - [POLS 303.3](#) Public Law and the Courts in Canada
 - [POLS 304.3](#) Democracy and the Charter of Rights and Freedoms
 - [POLS 305.3](#) Provincial Politics and Policy
 - [POLS 306.3](#) Local Governance and Policy
 - POLS 307.3
 - [POLS 323.3](#) Indigenous Policies and Programs
 - [POLS 349.3](#) Multiculturalism and Immigration in Canada
 - [POLS 375.3](#) Canadian Foreign Policy in the Global Era
 - [POLS 404.3](#) Canadian Federalism and Intergovernmental Relations
 - [POLS 405.3](#) Canadian Elections and Political Parties
 - [POLS 422.3](#) Indigenous Governance and Self Determined Sustainable Development
 - POLS 425.3
- **RRM courses with Canadian content are:**
 - **[RRM 114.3](#) Introductory Resource Economics and Policy**
 - **[RRM 312.3](#) Natural Resource Management and Indigenous Peoples**
- SOC courses with Canadian content are:
 - [SOC 203.3](#) Race and Ethnic Relations in Canada
 - [SOC 204.3](#) Rural Sociology and Rural Development
 - [SOC 219.3](#) Indigenous Peoples and Justice in Canada
 - [SOC 227.3](#) Critical Issues in Canadian Society
 - [SOC 244.3](#) Sociology of Mass Media in Canada
 - [SOC 246.3](#) Ideology and Mass Communication
 - [SOC 319.3](#) Indigenous People in Urban Areas
 - [SOC 341.3](#) Institutional Racism and Indigenous People

Please Note: all INDG courses are acceptable, except [INDG 221.3](#) Indigenous Food Sovereignty and INDG 272.3

5) To add the following course to the Biology Teaching Areas at the Secondary level:

- **PLSC 213.3: Principles of Plant Ecology (as equivalent to BIOL 228.3: An Introduction to Ecology and Ecosystems)**

**Bachelor of Education (B.Ed.) - Secondary
Teaching Area 1 - Biology**

Please Note: Biology 30 or equivalent is a prerequisite for this Teaching Area.

Complete the following 6 credit units of junior level Biology courses:

- [BIOL 120.3](#) The Nature of Life
- [BIOL 121.3](#) The Diversity of Life

Choose 9 credit units from the following 200-level Biology courses:

- [BIOL 222.3](#) The Living Plant
- [BIOL 224.3](#) Animal Body Systems
- [BIOL 226.3](#) Genes to Genomics
- [BIOL 228.3](#) An Introduction to Ecology and Ecosystems **or PLSC 213.3 Principles of Plant Ecology**

Choose 3 credit units from the following senior level Biology courses:

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

Please Note: Students are encouraged to choose the course not taken toward the above requirement: one of [BIOL 222.3](#) The Living Plant, [BIOL 224.3](#) Animal Body Systems, [BIOL 226.3](#) Genes to Genomics and [BIOL 228.3](#) An Introduction to Ecology and Ecosystems.

Choose 6 credit units from the following senior level Biology courses:

- [BIOL — 300-Level, 400-Level](#)

Teaching Area 2 - Biology

Please Note: Biology 30 or equivalent is a prerequisite for this Teaching Area.

Complete the following 6 credit units of Biology courses:

- [BIOL 120.3](#) The Nature of Life
- [BIOL 121.3](#) The Diversity of Life

Choose 6 credit units from the following 200-level Biology courses:

- [BIOL 222.3](#) The Living Plant
- [BIOL 224.3](#) Animal Body Systems
- [BIOL 226.3](#) Genes to Genomics
- [BIOL 228.3](#) An Introduction to Ecology and Ecosystems **or PLSC 213.3 Principles of Plant Ecology**

Choose 3 credit units from the following senior level Biology courses:

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

Rationale: Given the course content taught in **INDG 264.3: Aboriginal People and Canadian Politics**, Education Faculty members approved this course to meet the History requirement for the Social Sciences/Social Studies Teaching Areas at the Early/Middle Years and Secondary levels. The course description is below.

INDG 264.3: Aboriginal People and Canadian Politics

An analysis of contemporary Canadian political and administrative processes as they affect Indigenous Peoples. Emphasis will be placed on the Federal system of government and its effects on Indigenous identity, community programs and local autonomy.

6) To allow INDG 264.3: Aboriginal Peoples and Canadian Politics to be used toward the History requirement in the Social Sciences/Social Studies Teaching Areas 1 and 2 at the Early/Middle Years and Secondary levels.

Social Sciences/Social Studies

Teacher candidates may choose Social Sciences/Social Studies OR Indigenous Studies as a Teaching Area, but cannot choose both.

Please Note: any 100-level course taken after the first 6 credit units will be counted as a senior course.

[ECON 450.3](#) Strategic Choice, [PSY 233.3](#) Statistical Methods in Behavioural Sciences A, [PSY 234.3](#) Statistical Methods in Behavioural Sciences B, [SOC 225.3](#) An Introduction to Survey Research and Data Analysis in Sociology and [SOC 325.3](#) Applied Quantitative Research in Sociology cannot be used to fulfill this requirement.

Choose X credit units from the following Indigenous Studies courses:

INDG 107.3 Introduction to Canadian Indigenous Studies is recommended.

- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
- [ANTH 350.3](#) Introduction to Boreal Forest Archaeology
- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- ARTH 323.3
- ARTH 345.3
- [DRAM 111.3](#) Practicum I Indigenous Performance Methods
- [ENG 242.3](#) Indigenous Storytelling of the Prairies
- [ENG 243.3](#) Introduction to Indigenous Literatures
- [ENG 335.3](#) The Emergence of Indigenous Literatures in Canada
- [ENG 338.3](#) Contemporary North American Indigenous Literatures
- [GEOG 465.3](#) Environment and Health in Indigenous Communities
- [HIST 193.3](#) History Matters Topics in Canadian History
- [HIST 195.3](#) History Matters Indigenous Perspectives on Canadian History
- [HIST 257.3](#) The Canadian Prairie to 1905
- [HIST 315.3](#) Indigenous Health History
- [HIST 316.3](#) History of the Metis in Twentieth Century Prairie Canada
- [HIST 366.3](#) Indigenous Womens Life Stories in Early North America

- [HIST 367.3](#) Early Indigenous North American Diasporas
- [HIST 432.3](#) Turtle Island Stories From Erasure to Empowerment in Early North American Ethnohistories
- [HIST 468.3](#) Topics in Urban History Saskatoon Indigenous History
- [KIN 306.3](#) Introduction to Indigenous Wellness
- [LING 114.3](#) Indigenous Languages and Stories Introduction to the Structure of Language
- [LING 253.3](#) Indigenous Languages of Canada
- [PLAN 445.3](#) Planning with Indigenous Communities
- [POLS 222.3](#) Indigenous Governance and Politics
- [POLS 323.3](#) Indigenous Policies and Programs
- [SOC 219.3](#) Indigenous Peoples and Justice in Canada
- [SOC 319.3](#) Indigenous People in Urban Areas
- [SOC 341.3](#) Institutional Racism and Indigenous People

Choose X credit units from the following History courses:

- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- [INDG 212.3](#) Nehiyaw Tapsinowin Cree Cultural Histories
- [INDG 216.3](#) The Presence of the Past in Contemporary Indigenous Life
- [INDG 264.3](#) **Aboriginal Peoples and Canadian Politics**
- [INDG 280.6](#) Metis History in Western Canada
- [INDG 281.3](#) First Nations History in Western Canada

Choose X credit units from the following Social Sciences/Social Studies courses:

- [ANTH 111.3](#) One World Many Peoples Introduction to Cultural Anthropology
- [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
- [ANTH 211.3](#) Cultural Competency in Community Health and Violence Intervention
- [ANTH 224.3](#) North American Plains Ethnography
- [ANTH 226.3](#) Business and Industrial Anthropology
- [ANTH 227.3](#) Cultures of Central and Eastern Europe
- [ANTH 230.3](#) Cultural Dynamics
- [ANTH 231.3](#) Cross Cultural Perspectives on Health and Illness
- [ANTH 235.3](#) Anthropological Approaches to Ethnicity and Ethnic Groups
- [ANTH 240.3](#) Cultural Landscapes and Environments
- [ANTH 244.3](#) Political Ecology Anthropology and Global Environmental Issues
- [ANTH 302.3](#) The Practice of Ethnography
- [ANTH 304.3](#) Anthropology Research Course
- [ANTH 305.3](#) Anthropology Reading Course
- [ANTH 306.3](#) Anthropology of Disaster and Dislocation
- [ANTH 310.3](#) Anthropology of Gender
- [ANTH 311.3](#) Selected Topics in Anthropology
- [ANTH 321.3](#) Myth Ritual and Symbol
- [ANTH 326.3](#) Applied Anthropology
- [ANTH 329.3](#) Environmental Anthropology
- [ANTH 330.3](#) Oral History and Storytelling Anthropological Perspectives
- [ANTH 332.3](#) Anthropology of Infectious Disease
- ANTH 328.3
- [ANTH 339.3](#) Cultural Change, Globalization and Development

- ANTH 379.3
- ANTH 383.3
- [ANTH 390.3](#) Birth and Sex and Death Anthropological Life Course Perspectives
- [ANTH 400.3](#) Contemporary Issues in Archaeology and Anthropology
- [ANTH 401.3](#) Independent Research in Anthropology
- [ANTH 403.3](#) Anthropology of Healing
- ANTH 421.3
- [ANTH 422.3](#) Anthropology in Context Contemporary Influences
- [CMRS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CTST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ECON — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [IS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHIL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [POLS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PSY — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RLST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CLAS 110.3](#) Greek Civilization
- [CLAS 111.3](#) Roman Civilization
- [CLAS 220.3](#) Daily Life in Ancient Greece and Rome
- [CLAS 225.3](#) Women in Antiquity
- [CLAS 240.3](#) Ancient Art and Architecture I Bronze Age to Classical Greece
- [CLAS 242.3](#) Ancient Art and Architecture II Graeco Roman World
- [CLAS 247.3](#)
- [CLAS 248.3](#)
- [GEOG 130.3](#) Environment Health and Planning
- [GEOG 202.3](#) Regional Geography of Canada
- [GEOG 204.3](#) Geography of the Prairie Region
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 340.3](#)
- [GEOG 364.3](#) Geography of Environment and Health
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 386.3](#) Environmental Impact Assessment
- [GEOG 491.3](#) Honours Thesis in Environment and Society
- [PLAN 341.3](#) Urban Planning
- [PLAN 343.3](#) Legal Issues in Planning
- [PLAN 346.3](#) Introduction to Urban Design
- [PLAN 350.3](#) Transportation Planning and Geography
- [PLAN 392.3](#) History of the Built Environment from Antiquity to Early Modernity
- [PLAN 442.3](#) Regional Planning
- [PLAN 446.3](#) Advanced Urban Design Studio

Please Note: at least 6 credit units of the total 18 credit units must include Canadian content.

- ANTH courses with Canadian content are:
 - [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
 - [ANTH 350.3](#) Introduction to Boreal Forest Archaeology

- ANTH 480.3
- AREC courses with Canadian content are:
 - [AREC 220.3](#) History of Indigenous Agriculture in Canada
- DRAM courses with Canadian content are:
 - [DRAM 111.3](#) Practicum I Indigenous Performance Methods
- ECON courses with Canadian content are:
 - [ECON 231.3](#) Co-operatives
- ENG courses with Canadian content are:
 - [ENG 242.3](#) Indigenous Storytelling of the Prairies
 - [ENG 243.3](#) Introduction to Indigenous Literatures
 - [ENG 335.3](#) The Emergence of Indigenous Literatures in Canada
 - [ENG 338.3](#) Contemporary North American Indigenous Literatures
- GEOG courses with Canadian content are:
 - [GEOG 202.3](#) Regional Geography of Canada
 - [GEOG 204.3](#) Geography of the Prairie Region
 - GEOG 381.3
 - [GEOG 386.3](#) Environmental Impact Assessment
 - [GEOG 465.3](#) Environment and Health in Indigenous Communities
 - PLAN 342.3
 - [PLAN 343.3](#) Legal Issues in Planning
 - [PLAN 442.3](#) Regional Planning
 - [PLAN 445.3](#) Planning with Indigenous Communities
- HIST courses with Canadian content are:
 - HIST — 100-Level (only those sections containing Canadian content will be considered; consult an academic advisor)
 - [HIST 193.3](#) History Matters Topics in Canadian History
 - [HIST 195.3](#) History Matters Indigenous Perspectives on Canadian History
 - [HIST 255.3](#) Canadian History from the Pre Contact Period to 1867
 - [HIST 256.3](#) Post Confederation Canada 1867 to the Present
 - [HIST 257.3](#) The Canadian Prairie to 1905
 - [HIST 258.3](#) The Canadian Prairies since 1905
 - [HIST 259.3](#) Canadian Womens and Gender History from Pre Contact Period to 1918
 - [HIST 260.3](#) Canadian Womens and Gender History from 1919 to the Present
 - [HIST 266.3](#) Historical Issues in Indigenous Settler Relations in North America
 - HIST 310.3
 - [HIST 315.3](#) Indigenous Health History
 - [HIST 316.3](#) History of the Metis in Twentieth Century Prairie Canada
 - [HIST 350.3](#) The War That Shaped a Continent The Seven Years War and the Conquest of Canada
 - [HIST 353.3](#) Pests Plagues Pox and Politics A History of Health Care in Canada
 - [HIST 363.3](#) Canada in Age of Affluence Post 1945
 - [HIST 365.3](#) Recipes for a Nation Food History in Canada
 - [HIST 366.3](#) Indigenous Womens Life Stories in Early North America
 - [HIST 367.3](#) Early Indigenous North American Diasporas
 - [HIST 370.3](#) Violence Smuggling and Vice Borderlands and the Gaps of Power
 - [HIST 410.3](#) France in the Americas 1500 to 1803 In Search of Empire
 - HIST 415.3
 - [HIST 430.3](#) Gender and Sexuality in Western Canada
 - [HIST 432.3](#) Turtle Island Stories From Erasure to Empowerment in Early North American Ethnohistories
 - HIST 466.3

- [HIST 468.3](#) Topics in Urban History Saskatoon Indigenous History
- KIN course with Canadian content is:
 - [KIN 306.3](#) Introduction to Indigenous Wellness
- LING courses with Canadian content are:
 - [LING 114.3](#) Indigenous Languages and Stories Introduction to the Structure of Language
 - [LING 253.3](#) Indigenous Languages of Canada
- POLS courses with Canadian content are:
 - [POLS 111.3](#) Politics Power and Government
 - [POLS 204.3](#) Canadian Political Institutions
 - [POLS 205.3](#) Canadian Politics and Society
 - [POLS 222.3](#) Indigenous Governance and Politics
 - [POLS 225.3](#) Canadian Public Administration and Administrative Law
 - [POLS 226.3](#) Canadian Public Policy
 - [POLS 303.3](#) Public Law and the Courts in Canada
 - [POLS 304.3](#) Democracy and the Charter of Rights and Freedoms
 - [POLS 305.3](#) Provincial Politics and Policy
 - [POLS 306.3](#) Local Governance and Policy
 - POLS 307.3
 - [POLS 323.3](#) Indigenous Policies and Programs
 - [POLS 349.3](#) Multiculturalism and Immigration in Canada
 - [POLS 375.3](#) Canadian Foreign Policy in the Global Era
 - [POLS 404.3](#) Canadian Federalism and Intergovernmental Relations
 - [POLS 405.3](#) Canadian Elections and Political Parties
 - [POLS 422.3](#) Indigenous Governance and Self Determined Sustainable Development
 - POLS 425.3
- SOC courses with Canadian content are:
 - [SOC 203.3](#) Race and Ethnic Relations in Canada
 - [SOC 204.3](#) Rural Sociology and Rural Development
 - [SOC 219.3](#) Indigenous Peoples and Justice in Canada
 - [SOC 227.3](#) Critical Issues in Canadian Society
 - [SOC 244.3](#) Sociology of Mass Media in Canada
 - [SOC 246.3](#) Ideology and Mass Communication
 - [SOC 319.3](#) Indigenous People in Urban Areas
 - [SOC 341.3](#) Institutional Racism and Indigenous People

Please Note: all INDG courses are acceptable, except [INDG 221.3](#) Indigenous Food Sovereignty and INDG 272.3

Rationale: Given the course content of **GEOG 150.3: Introduction to the Circumpolar World**, College of Education faculty members have approved this course for inclusion on the Social Sciences/Social Studies lists. The course description is below.

[GEOG 150.3: Introduction to the Circumpolar World](#)

Introduces students to the landscapes, peoples and issues of the circumpolar region. Beginning with an examination of the geography, and the biological and physical systems of the Subarctic and Arctic, the course then turns attention to the aboriginal and contemporary peoples of the region. The history of the Circumpolar World is treated in a broad fashion, to provide a grounding in the events and developments that have created the region's contemporary qualities. The second part of the course surveys some of the particular issues facing the region, including climate change, and

economic, political and social development. This course is ultimately intended to stimulate interest in the circumpolar world.

7) To allow GEOG 150.3: Introduction to the Circumpolar World for the Social Sciences/Social Studies External Requirement at the Early/Middle Years level.

8) To allow GEOG 150.3: Introduction to the Circumpolar World as part of the Social Sciences/Social Studies Teaching Areas at Early/Middle Years and Secondary levels.

Early/Middle Years > External Course Requirements

Social Sciences/Social Studies

Please Note: not required if Social Sciences/Social Studies or Indigenous Studies is a Teaching Area.

[ECON 450.3](#) Strategic Choice, [PSY 233.3](#) Statistical Methods in Behavioural Sciences A, [PSY 234.3](#) Statistical Methods in Behavioural Sciences B, [SOC 225.3](#) An Introduction to Survey Research and Data Analysis in Sociology and [SOC 325.3](#) Applied Quantitative Research in Sociology cannot be used to fulfill this requirement.

Choose **3 credit units** of Social Sciences/Social Studies:

- [ANTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CMRS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CTST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ECON — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [IS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHIL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [POLS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PSY — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RLST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CLAS 110.3](#) Greek Civilization
- [CLAS 111.3](#) Roman Civilization
- [CLAS 220.3](#) Daily Life in Ancient Greece and Rome
- [CLAS 225.3](#) Women in Antiquity
- [CLAS 240.3](#) Ancient Art and Architecture I Bronze Age to Classical Greece
- [CLAS 242.3](#) Ancient Art and Architecture II Graeco Roman World
- CLAS 248.3
- [GEOG 130.3](#) Environment Health and Planning
- [GEOG 150.3](#) Introduction to the Circumpolar World
- [GEOG 202.3](#) Regional Geography of Canada
- [GEOG 204.3](#) Geography of the Prairie Region
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions

- [GEOG 280.3](#) Environmental Geography
- GEOG 340.3
- [GEOG 364.3](#) Geography of Environment and Health
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 386.3](#) Environmental Impact Assessment
- GEOG 486.3
- [GEOG 491.3](#) Honours Thesis in Environment and Society
- [PLAN 341.3](#) Urban Planning
- PLAN 342.3
- [PLAN 343.3](#) Legal Issues in Planning
- [PLAN 346.3](#) Introduction to Urban Design
- [PLAN 350.3](#) Transportation Planning and Geography
- [PLAN 442.3](#) Regional Planning
- [PLAN 446.3](#) Advanced Urban Design Studio

Teaching Areas 1 and 2 – Early/Middle Years and Secondary

Social Sciences/Social Studies

Teacher candidates may choose Social Sciences/Social Studies OR Indigenous Studies as a Teaching Area, but cannot choose both.

Please Note: any 100-level course taken after the first 6 credit units will be counted as a senior course.

[ECON 450.3](#) Strategic Choice, [PSY 233.3](#) Statistical Methods in Behavioural Sciences A, [PSY 234.3](#) Statistical Methods in Behavioural Sciences B, [SOC 225.3](#) An Introduction to Survey Research and Data Analysis in Sociology and [SOC 325.3](#) Applied Quantitative Research in Sociology cannot be used to fulfill this requirement.

Choose X credit units from the following Indigenous Studies courses:

[INDG 107.3](#) Introduction to Canadian Indigenous Studies is recommended.

- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
- [ANTH 350.3](#) Introduction to Boreal Forest Archaeology
- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- ARTH 323.3
- ARTH 345.3
- [DRAM 111.3](#) Practicum I Indigenous Performance Methods
- [ENG 242.3](#) Indigenous Storytelling of the Prairies
- [ENG 243.3](#) Introduction to Indigenous Literatures
- [ENG 335.3](#) The Emergence of Indigenous Literatures in Canada
- [ENG 338.3](#) Contemporary North American Indigenous Literatures
- [GEOG 465.3](#) Environment and Health in Indigenous Communities
- [HIST 193.3](#) History Matters Topics in Canadian History
- [HIST 195.3](#) History Matters Indigenous Perspectives on Canadian History
- [HIST 257.3](#) The Canadian Prairie to 1905
- [HIST 315.3](#) Indigenous Health History
- [HIST 316.3](#) History of the Metis in Twentieth Century Prairie Canada

- [HIST 366.3](#) Indigenous Womens Life Stories in Early North America
- [HIST 367.3](#) Early Indigenous North American Diasporas
- [HIST 432.3](#) Turtle Island Stories From Erasure to Empowerment in Early North American Ethnohistories
- [HIST 468.3](#) Topics in Urban History Saskatoon Indigenous History
- [KIN 306.3](#) Introduction to Indigenous Wellness
- [LING 114.3](#) Indigenous Languages and Stories Introduction to the Structure of Language
- [LING 253.3](#) Indigenous Languages of Canada
- [PLAN 445.3](#) Planning with Indigenous Communities
- [POLS 222.3](#) Indigenous Governance and Politics
- [POLS 323.3](#) Indigenous Policies and Programs
- [SOC 219.3](#) Indigenous Peoples and Justice in Canada
- [SOC 319.3](#) Indigenous People in Urban Areas
- [SOC 341.3](#) Institutional Racism and Indigenous People

Choose X credit units from the following History courses:

- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- [INDG 212.3](#) Nehiyaw Tapsinowin Cree Cultural Histories
- [INDG 216.3](#) The Presence of the Past in Contemporary Indigenous Life
- [INDG 280.6](#) Metis History in Western Canada
- [INDG 281.3](#) First Nations History in Western Canada

Choose X credit units from the following Social Sciences/Social Studies courses:

- [ANTH 111.3](#) One World Many Peoples Introduction to Cultural Anthropology
- [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
- [ANTH 211.3](#) Cultural Competency in Community Health and Violence Intervention
- [ANTH 224.3](#) North American Plains Ethnography
- [ANTH 226.3](#) Business and Industrial Anthropology
- [ANTH 227.3](#) Cultures of Central and Eastern Europe
- [ANTH 230.3](#) Cultural Dynamics
- [ANTH 231.3](#) Cross Cultural Perspectives on Health and Illness
- [ANTH 235.3](#) Anthropological Approaches to Ethnicity and Ethnic Groups
- [ANTH 240.3](#) Cultural Landscapes and Environments
- [ANTH 244.3](#) Political Ecology Anthropology and Global Environmental Issues
- [ANTH 302.3](#) The Practice of Ethnography
- [ANTH 304.3](#) Anthropology Research Course
- [ANTH 305.3](#) Anthropology Reading Course
- [ANTH 306.3](#) Anthropology of Disaster and Dislocation
- [ANTH 310.3](#) Anthropology of Gender
- [ANTH 311.3](#) Selected Topics in Anthropology
- [ANTH 321.3](#) Myth Ritual and Symbol
- [ANTH 326.3](#) Applied Anthropology
- [ANTH 329.3](#) Environmental Anthropology
- [ANTH 330.3](#) Oral History and Storytelling Anthropological Perspectives
- [ANTH 332.3](#) Anthropology of Infectious Disease
- ANTH 328.3
- [ANTH 339.3](#) Cultural Change, Globalization and Development

- ANTH 379.3
- ANTH 383.3
- [ANTH 390.3](#) Birth and Sex and Death Anthropological Life Course Perspectives
- [ANTH 400.3](#) Contemporary Issues in Archaeology and Anthropology
- [ANTH 401.3](#) Independent Research in Anthropology
- [ANTH 403.3](#) Anthropology of Healing
- ANTH 421.3
- [ANTH 422.3](#) Anthropology in Context Contemporary Influences
- [CMRS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CTST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ECON — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [IS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PHIL — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [POLS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PSY — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [RLST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CLAS 110.3](#) Greek Civilization
- [CLAS 111.3](#) Roman Civilization
- [CLAS 220.3](#) Daily Life in Ancient Greece and Rome
- [CLAS 225.3](#) Women in Antiquity
- [CLAS 240.3](#) Ancient Art and Architecture I Bronze Age to Classical Greece
- [CLAS 242.3](#) Ancient Art and Architecture II Graeco Roman World
- [CLAS 247.3](#)
- [CLAS 248.3](#)
- [GEOG 130.3](#) Environment Health and Planning
- [GEOG 150.3](#) Introduction to the Circumpolar World
- [GEOG 202.3](#) Regional Geography of Canada
- [GEOG 204.3](#) Geography of the Prairie Region
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 340.3](#)
- [GEOG 364.3](#) Geography of Environment and Health
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 386.3](#) Environmental Impact Assessment
- [GEOG 491.3](#) Honours Thesis in Environment and Society
- [PLAN 341.3](#) Urban Planning
- [PLAN 343.3](#) Legal Issues in Planning
- [PLAN 346.3](#) Introduction to Urban Design
- [PLAN 350.3](#) Transportation Planning and Geography
- [PLAN 392.3](#) History of the Built Environment from Antiquity to Early Modernity
- [PLAN 442.3](#) Regional Planning
- [PLAN 446.3](#) Advanced Urban Design Studio

Please Note: at least X credit units of the total X credit units must include Canadian content.

- ANTH courses with Canadian content are:
 - [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada

- [ANTH 350.3](#) Introduction to Boreal Forest Archaeology
 - ANTH 480.3
- AREC courses with Canadian content are:
 - [AREC 220.3](#) History of Indigenous Agriculture in Canada
- DRAM courses with Canadian content are:
 - [DRAM 111.3](#) Practicum I Indigenous Performance Methods
- ECON courses with Canadian content are:
 - [ECON 231.3](#) Co operatives
- ENG courses with Canadian content are:
 - [ENG 242.3](#) Indigenous Storytelling of the Prairies
 - [ENG 243.3](#) Introduction to Indigenous Literatures
 - [ENG 335.3](#) The Emergence of Indigenous Literatures in Canada
 - [ENG 338.3](#) Contemporary North American Indigenous Literatures
- GEOG courses with Canadian content are:
 - [GEOG 202.3](#) Regional Geography of Canada
 - [GEOG 204.3](#) Geography of the Prairie Region
 - GEOG 381.3
 - [GEOG 386.3](#) Environmental Impact Assessment
 - [GEOG 465.3](#) Environment and Health in Indigenous Communities
 - PLAN 342.3
 - [PLAN 343.3](#) Legal Issues in Planning
 - [PLAN 442.3](#) Regional Planning
 - [PLAN 445.3](#) Planning with Indigenous Communities
- HIST courses with Canadian content are:
 - HIST — 100-Level (only those sections containing Canadian content will be considered; consult an academic advisor)
 - [HIST 193.3](#) History Matters Topics in Canadian History
 - [HIST 195.3](#) History Matters Indigenous Perspectives on Canadian History
 - [HIST 255.3](#) Canadian History from the Pre Contact Period to 1867
 - [HIST 256.3](#) Post Confederation Canada 1867 to the Present
 - [HIST 257.3](#) The Canadian Prairie to 1905
 - [HIST 258.3](#) The Canadian Prairies since 1905
 - [HIST 259.3](#) Canadian Womens and Gender History from Pre Contact Period to 1918
 - [HIST 260.3](#) Canadian Womens and Gender History from 1919 to the Present
 - [HIST 266.3](#) Historical Issues in Indigenous Settler Relations in North America
 - HIST 310.3
 - [HIST 315.3](#) Indigenous Health History
 - [HIST 316.3](#) History of the Metis in Twentieth Century Prairie Canada
 - [HIST 350.3](#) The War That Shaped a Continent The Seven Years War and the Conquest of Canada
 - [HIST 353.3](#) Pests Plagues Pox and Politics A History of Health Care in Canada
 - [HIST 363.3](#) Canada in Age of Affluence Post 1945
 - [HIST 365.3](#) Recipes for a Nation Food History in Canada
 - [HIST 366.3](#) Indigenous Womens Life Stories in Early North America
 - [HIST 367.3](#) Early Indigenous North American Diasporas
 - [HIST 370.3](#) Violence Smuggling and Vice Borderlands and the Gaps of Power
 - [HIST 410.3](#) France in the Americas 1500 to 1803 In Search of Empire
 - HIST 415.3
 - [HIST 430.3](#) Gender and Sexuality in Western Canada
 - [HIST 432.3](#) Turtle Island Stories From Erasure to Empowerment in Early North American Ethnohistories

- HIST 466.3
- [HIST 468.3](#) Topics in Urban History Saskatoon Indigenous History
- KIN course with Canadian content is:
 - [KIN 306.3](#) Introduction to Indigenous Wellness
- LING courses with Canadian content are:
 - [LING 114.3](#) Indigenous Languages and Stories Introduction to the Structure of Language
 - [LING 253.3](#) Indigenous Languages of Canada
- POLS courses with Canadian content are:
 - [POLS 111.3](#) Politics Power and Government
 - [POLS 204.3](#) Canadian Political Institutions
 - [POLS 205.3](#) Canadian Politics and Society
 - [POLS 222.3](#) Indigenous Governance and Politics
 - [POLS 225.3](#) Canadian Public Administration and Administrative Law
 - [POLS 226.3](#) Canadian Public Policy
 - [POLS 303.3](#) Public Law and the Courts in Canada
 - [POLS 304.3](#) Democracy and the Charter of Rights and Freedoms
 - [POLS 305.3](#) Provincial Politics and Policy
 - [POLS 306.3](#) Local Governance and Policy
 - POLS 307.3
 - [POLS 323.3](#) Indigenous Policies and Programs
 - [POLS 349.3](#) Multiculturalism and Immigration in Canada
 - [POLS 375.3](#) Canadian Foreign Policy in the Global Era
 - [POLS 404.3](#) Canadian Federalism and Intergovernmental Relations
 - [POLS 405.3](#) Canadian Elections and Political Parties
 - [POLS 422.3](#) Indigenous Governance and Self Determined Sustainable Development
 - POLS 425.3
- SOC courses with Canadian content are:
 - [SOC 203.3](#) Race and Ethnic Relations in Canada
 - [SOC 204.3](#) Rural Sociology and Rural Development
 - [SOC 219.3](#) Indigenous Peoples and Justice in Canada
 - [SOC 227.3](#) Critical Issues in Canadian Society
 - [SOC 244.3](#) Sociology of Mass Media in Canada
 - [SOC 246.3](#) Ideology and Mass Communication
 - [SOC 319.3](#) Indigenous People in Urban Areas
 - [SOC 341.3](#) Institutional Racism and Indigenous People

Please Note: all INDG courses are acceptable, except [INDG 221.3](#) Indigenous Food Sovereignty and INDG 272.3

Rationale: Education students have been permitted to register in up to 18 credit units per term to allow students completing a Bachelor of Education degree and an Education certificate concurrently to take all of the necessary classes. Given the limited number of undergraduate certificate programs currently being offered by the College of Education, there is no longer a need for students to take six classes each term. Furthermore, there have been students who have claimed they are unable to meet their various course obligations due to the heavy course load because they are registered in six classes. Therefore, the College of Education faculty approved a reduction to the maximum number of credit units to 15 credit units for the Fall Term and 15 credit units in the Winter Term. The credit unit limit for the Spring and Summer Term will remain unchanged. This change is effective in the 2025-2026 academic year.

For Information

9) To reduce the number of credit units students may register in during each of the Fall and Winter Terms to 15 credit units.

Students are permitted to register in a maximum of ~~18-15~~ credit units ~~per term, in the Fall Term and a maximum of 15 credit units in the Winter Term~~, including during the extended practicum. ~~and the~~ Students are permitted to register in a maximum of 18 credit units in the Spring and Summer Session (with no more than 9 credit units in either the Spring Term or Summer Term). Students wishing to exceed this credit unit limit must receive approval from the Student Affairs and Academic Standards Committee.

(<https://programs.usask.ca/education/policies.php>)

College of Engineering - University Course Challenge Submission, May 2024

The following changes have been approved through the College of Engineering and are being submitted through the University Course Challenge for approval and information, as follows:

For Approval

Civil, Geological, and Environmental Engineering:

- i. **MOTION:** To add **PHYS 223.3, *Mechanics I*** to the [CE science elective](#) list that is currently as follows:
- **ASTR 213.3** *Astronomical Photometry*
 - **ASTR 214.3** *Astronomical Spectroscopy*
 - **CHEM 221.3** *Analytical Chemistry I*
 - **CHEM 231.3** *Inorganic Chemistry I*
 - **CHEM 242.3** *Thermodynamics and Kinetics*
 - **CHEM 250.3** *Introduction to Organic Chemistry*
 - **EVSC 203.3** *Sampling and Laboratory Analysis*
 - **EVSC 210.3** *Environmental Physics*
 - **GEOG 120.3** *Introduction to Global Environmental Systems*
 - **GEOL 224.3** *Mineralogy*
 - **GEOL 245.3** *Introduction to Sedimentary Rocks*
 - **GEOL 258.3** *Structural Geology*

Rationale: A student that recently transferred into Civil Engineering (CE) from Engineering Physics (EP) has prompted the department to review the current list of approved Civil Engineering (CE) science electives. The student has asked to use a number of science electives for the CE science elective degree requirement.

The one course that the CE program committee felt was relevant was **PHYS 223.3** with the following calendar course description: "**PHYS 223.3:** *An introduction to classical mechanics of single-particle systems using Newtonian, Lagrangian, and Hamiltonian methods. Applications include linear and non-linear oscillations and gravitation.*"

For Information

- ii. **MOTION:** to change the name of **GEOE 412.3 "Reservoir Mechanics"** to "**Reservoir Engineering for Subsurface Energy Production and Storage.**"
- iii. **MOTION:** to change the current course calendar description for **GEOE 412.3** from:

"Fluid flow in hydrocarbon reservoirs; material balance equations; oil and gas well testing; waterflooding and EOR methods; fractional and segregated flow of immiscible fluids."

To the proposed course description of:

“Multiphase fluid flow in porous reservoirs; pore fluid properties; hydraulic and thermal properties of porous reservoirs; reservoir evaluation; reservoir simulation. Applications studied include oil and natural gas production, enhanced oil recovery, gas storage in porous media and salt caverns, geothermal energy, and carbon capture and storage.”

Rationale: the above proposed changes, to both the name of **GEOE 412.3**, as well as to the course description, will better describe current course content.

iv. **MOTION:** To change the name of [GEOE 466.3](#) *“Petroleum Geomechanics”* to *“Geomechanics of Energy Production and Storage.”*

v. **MOTION:** To change the current course calendar description of **GEOE 466.3** from:

“Geomechanical, geotechnical and petrophysical problems of interest to the petroleum industry: petroleum well drilling, borehole breakouts, wellbore stability, hydraulic fracturing, subsidence and compaction due to oil and gas withdrawal.”

To the proposed course description of:

“Geomechanical problems of interest during withdrawal and injection of fluids for energy production and storage in the subsurface. Drilling methods; mechanical earth models; wellbore stability; hydraulic fracturing; geomechanical response to reservoir pressure and temperature changes; induced seismicity. Applications studied include oil and natural gas production, gas storage in porous media and salt caverns, carbon capture and storage, and geothermal energy production.”

Rationale: The above proposed changes, to both the name of **GEOE 466.3**, as well as to the course description, will better describe current course content.

Mechanical Engineering:

i. **MOTION:** That the Department of Mechanical Engineering offer [ME 460.3 Automation and Robotics in Manufacturing](#) in the Fall or Winter terms instead of only in the Winter term, as is currently indicated in the department’s list of technical electives. Similarly, that [ME 475.3 Introduction to Mechatronics](#) also be changed to be offered in either Fall or Winter terms permanently.

Rationale: The department wishes to offer both **ME 460.3** and **ME 475.3** in 2024-25. Normally these technical elective courses are offered in alternating years, but this pattern has been interrupted by leaves. Both courses use the same facilities and lab personnel, which would make

it extremely difficult to offer them both in the Winter Term, as indicated in the current Course and Program Catalogue for the 2024-2025 academic year.

Students will be informed of this change when the Undergraduate program chair sends the annual email listing the electives which will be offered for the coming academic year. This will also increase the flexibility of scheduling elective courses.

The Future Catalogue mark-up should reflect these changes as follows:

Civil Engineering

Bachelor of Science in Engineering (B.E.) - Civil Engineering (149 credit units)

Civil Engineering covers the areas of structural, materials, transportation, geotechnical, water, and project engineering. These are strongly interrelated sub-disciplines. Students in civil engineering are exposed to all areas of civil engineering during the program's second and third years. During these years, students take courses to learn the fundamental concepts needed for civil engineering work. In their final year, students select electives allowing a limited degree of specialization. However, they are strongly encouraged to choose electives that will provide them with a broad-based civil engineering technical background. Two design project courses give students experience in solving open-ended problems and working with industry.

All undergraduate students admitted to the College of Engineering are required to complete a common first-year of undeclared studies (known as the first-year common core). Once the first-year common core program has been completed, undergraduate students declare their preferences and compete for admission into an upper-year program. Students who are successful in securing admission into an upper-year program are required to follow the program of study that is prescribed at the time of their admission into the upper-year program.

Recognizing that course and program changes may result in a modification to the original program of study, it is recommended that undergraduate students consult an Academic Advisor within the Engineering Student Centre on a regular basis to

confirm their program of study, choose courses (including electives), and monitor their academic progress.

Year 1 (41-44 credit units)

All Engineering programs have a [common](#) first year.

Year 2 (36 credit units)

Fall Term

- [CE 202.3](#) Spatial Analysis and Engineering Drawings
- [CE 212.3](#) Civil Engineering Materials
- [GE 210.3](#) Probability and Statistics
- [GEOL 121.3](#) Earth Processes
- [MATH 223.3](#) Calculus III for Engineers

Winter Term

- [CE 213.3](#) Mechanics of Materials
- [CE 225.3](#) Fluid Mechanics
- [CE 295.3](#) Design Project
- [GEOE 218.3](#) Engineering Geology
- [MATH 224.3](#) Calculus IV for Engineers

Fall Term or Winter Term

- 3 credit units Science Elective
- [RCM 200.3](#) Effective Professional Communication

Year 3 (36 credit units)

Fall Term

- [CE 315.3](#) Fluid Mechanics and Hydraulics
- [CE 317.3](#) Structural Analysis
- [CE 318.3](#) Applied Engineering Mathematics
- [CE 320.3](#) Project Engineering
- [CE 328.3](#) Fundamentals of Soil Mechanics
- [GE 348.3](#) Engineering Economics

Winter Term

- [CE 319.3](#) Hydrology
- [CE 321.3](#) Structural Systems and Materials
- [CE 327.3](#) Municipal Engineering
- [CE 329.3](#) Transportation Engineering I
- [CE 330.3](#) Geotechnical Engineering
- 3 credit units Humanities or Social Science Elective

Year 4 (36 credit units)

Fall Term and Winter Term

- [CE 495.6](#) Capstone Design Project

Fall Term or Winter Term

27 credit units (9 courses)

- 3 credit units CE Elective Courses (Group G)
- 3 credit units CE Elective Courses (Group P)
- 3 credit units CE Elective Courses (Group S)
- 3 credit units CE Elective Courses (Group W)
- 12 additional credit units CE Elective courses (Groups W, G, or S)
- 3 additional credit units CE Elective courses (Groups W, G, S, P, or R)

Winter Term

- [GE 449.3](#) Engineering in Society

Electives

Science Elective

- [ASTR 213.3](#) Astronomical Photometry
- [ASTR 214.3](#) Astronomical Spectroscopy
- [BIOL 120.3](#) The Nature of Life
- [CHEM 221.3](#) Analytical Chemistry I
- [CHEM 231.3](#) Inorganic Chemistry I
- [CHEM 242.3](#) Thermodynamics and Kinetics
- [CHEM 250.3](#) Introduction to Organic Chemistry
- [EVSC 203.3](#) Sampling and Laboratory Analysis
- [EVSC 210.3](#) Environmental Physics
- [GEOG 120.3](#) Introduction to Global Environmental Systems
- [GEOL 224.3](#) Mineralogy
- [GEOL 245.3](#) Introduction to Sedimentary Rocks
- [GEOL 258.3](#) Structural Geology
- **PHYS 223.3 – Mechanics I**

CE Elective Courses

CE electives are offered subject to minimum enrolment and staffing considerations. Civil Engineering students are required to complete 27 credit units from Groups W, G, S, P, or R:

W: Water and Municipal Engineering

- [CE 415.3](#) Structures for Water Management
- [CE 464.3](#) Water Resources Engineering
- [ENVE 414.3](#) Water and Wastewater Engineering
- [GEOE 375.3](#) Engineering Hydrogeology

G: Soil, Pavement and Geotechnical Engineering

- [CE 417.3](#) Pavement Materials and Design
- [CE 466.3](#) Geotechnical Modelling
- [CE 468.3](#) Environmental Geotechnics

- [GEOE 315.3](#) Rock Mechanics

S: Structural Engineering

- [CE 418.3](#) Design in Reinforced Concrete
- [CE 463.3](#) Advanced Structural Analysis
- [CE 470.3](#) Design in Structural Steel
- [CE 474.3](#) Design in Masonry

P: Projects and Planning

- [CE 421.3](#) Engineering Project Management
- [CE 467.3](#) Transportation Engineering II
- [ENVE 381.3](#) Sustainability and Environmental Assessment
- [GE 496.3](#) Technological Innovation Design Project

R: Related Courses

- [ME 478.3](#) Introduction to Fire Protection Engineering
- [PLAN 341.3](#) Urban Planning
- [PLAN 350.3](#) Transportation Planning and Geography
- [RCM — 400-Level](#)

Humanities or Social Science Elective

- [ANTH 111.3](#) One World Many Peoples Introduction to Cultural Anthropology
- [ANTH — 200-Level, 300-Level, 400-Level](#)
- [ARCH 112.3](#) The Human Journey Introduction to Archaeology and Biological Anthropology
- [ARCH 116.3](#)
- [ARCH — 200-Level, 300-Level, 400-Level](#)
- [CLAS 104.3](#) Classical Myths
- [CLAS 110.3](#) Greek Civilization
- [CLAS 111.3](#) Roman Civilization
- [CLAS — 200-Level, 300-Level, 400-Level](#)
- [CMRS 110.3](#) The Graeco Roman Tradition Evolution and Reception
- [CMRS 111.3](#) Medieval and Renaissance Civilization
- [ECON 111.3](#) Introductory Microeconomics
- [ECON 114.3](#) Introductory Macroeconomics
- [ECON — 200-Level, 300-Level, 400-Level](#)
- [ENG — 200-Level, 300-Level, 400-Level](#)
- [GEOG 130.3](#) Environment Health and Planning

- [GEOG 202.3](#) Regional Geography of Canada
- [GEOG 204.3](#) Geography of the Prairie Region
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 280.3](#) Environmental Geography
- HIST 110.3
- HIST 111.3
- [HIST 115.3](#) History Matters Ideas and Culture
- HIST 121.3
- HIST 122.3
- [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 — 200-Level, 300-Level, 400-Level](#)
- [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [INDG — 200-Level, 300-Level, 400-Level](#)
- [IS — 200-Level, 300-Level, 400-Level](#)
- [LING 111.3](#) Structure of Language
- [LING 112.3](#) Dynamics of Language
- [PHIL 120.3](#) Knowledge Mind and Existence
- [PHIL 133.3](#) Introduction to Ethics and Values
- [PHIL 140.3](#) Critical Thinking
- [PHIL — 200-Level, 300-Level, 400-Level](#)
- [POLS 111.3](#) Politics Power and Government
- [POLS 112.3](#) Justice and Injustice in Politics and Law
- [POLS — 200-Level, 300-Level, 400-Level](#)
- [PSY 120.3](#) Biological and Cognitive Bases of Psychology
- [PSY 121.3](#) Social Clinical Cultural and Developmental Bases of Psychology
- [PSY — 200-Level, 300-Level, 400-Level](#)
- [RLST — 200-Level, 300-Level, 400-Level](#)
- [SOC 111.3](#) Foundations in Sociology Society Structure Process
- [SOC 112.3](#) Foundations in Sociology Social Construction of Everyday Life
- [SOC — 200-Level, 300-Level, 400-Level](#)
- [WGST 112.3](#) Introduction to Womens and Gender Studies
- [WGST — 200-Level, 300-Level, 400-Level](#)

- **Exception:** ECON 204 cannot be used to meet the Complementary Studies, Humanities or Social Science elective requirements of the program.
- **Exception:** PSY 233 and PSY 236 cannot be used to meet the Complementary Studies, Humanities or Social Science elective requirements of the program.

- **Exception:** PHIL 241 cannot be used to meet the Humanities or Social Science elective requirements of the program.
- **Exception:** SOC 225 cannot be used to meet the Complementary Studies, Humanities or Social Science elective requirements of the program.
- **Note:** The following Engineering courses will also satisfy the Humanities/Social Science elective requirement: RCM 400, RCM 401, RCM 402, RCM 403, RCM 404, RCM 405, RCM 406, RCM 407, RCM 408, RCM 409, RCM 410, and RCM 495.

Mechanical Engineering

Bachelor of Science in Engineering (B.E.) - Mechanical Engineering
(152 credit units)

Year 1 (41-44 credit units)

All Engineering programs have a [common](#) first year.

Year 2 (36 credit units)

Fall Term

- [GE 210.3](#) Probability and Statistics
- [GE 213.3](#) Mechanics of Materials
- [MATH 223.3](#) Calculus III for Engineers
- [ME 214.3](#) Introduction to Materials and Manufacturing
- [ME 227.3](#) Thermodynamics I

Winter Term

- [MATH 224.3](#) Calculus IV for Engineers
- [ME 215.3](#) Fluid Mechanics I
- [ME 226.3](#) Mechanics III
- [ME 229.3](#) Introduction to Mechanical Engineering Design
- [RCM 200.3](#) Effective Professional Communication

Fall or Winter Term

- 3 credit units Junior Humanities or Social Science Elective
- 3 credit units Science Elective

Year 3 (36 credit units)

Fall Term

- [ME 313.3](#) Mechanics of Materials I
- [ME 321.3](#) Engineering Analysis II
- [ME 324.3](#) Engineering Materials
- [ME 327.3](#) Heat Transfer
- [ME 330.3](#) Manufacturing Processes

Winter Term

- [ME 314.3](#) Machine Design I
- [ME 323.3](#) Mechanics of Materials II
- [ME 328.3](#) Mechanical Engineering Laboratory I
- [ME 329.3](#) Collaborative Design and Manufacturing
- [ME 335.3](#) Fluid Mechanics II
- [ME 352.3](#) Engineering Analysis III

Fall Term or Winter Term

- [GE 348.3](#) Engineering Economics

Year 4 (36 credit units)

Fall Term

- [ME 417.3](#) Thermodynamics II
- [ME 418.3](#) Mechanical Engineering Laboratory II
- [ME 431.3](#) Control Systems

Winter Term

- [GE 449.3](#) Engineering in Society

Fall Term and Winter Term

Choose 6 credit units from the following:

- [ME 495.6](#) Industrial Design Project
- [GE 495.6](#) Technological Innovation Capstone Design Project (Department permission required)

Fall Term or Winter Term

- 12 credit units Technical and Design Electives (of which 6 credit units must be from the Design Elective list)
- 3 credit units Complementary Studies Elective
- 3 credit units Senior Humanities or Social Science Elective

Electives

Science Elective List

- [ASTR 213.3](#) Astronomical Photometry
- [ASTR 214.3](#) Astronomical Spectroscopy
- [BIOL 120.3](#) The Nature of Life
- [CHEM 221.3](#) Analytical Chemistry I
- [CHEM 231.3](#) Inorganic Chemistry I
- [CHEM 242.3](#) Thermodynamics and Kinetics
- [CHEM 250.3](#) Introduction to Organic Chemistry
- [EVSC 203.3](#) Sampling and Laboratory Analysis
- [EVSC 210.3](#) Environmental Physics
- [GEOG 120.3](#) Introduction to Global Environmental Systems
- [GEOL 121.3](#) Earth Processes
- [GEOL 224.3](#) Mineralogy
- [GEOL 245.3](#) Introduction to Sedimentary Rocks
- [GEOL 258.3](#) Structural Geology

Technical Electives

Department Technical Electives are offered in alternating calendar years, subject to minimum enrolment limits and staffing considerations. Consult the current Course Offerings to determine the availability of specific electives.

Term 1

- [GEOE 377.3](#) Fundamentals of Mining and Mineral Processing
- [GEOE 466.3](#) Petroleum Geomechanics

Term 2

- [CHE 464.3](#) Petroleum Production Engineering
- [EE 471.3](#) Introduction to Micro and Nanotechnology
- [GEOE 380.3](#) Mine Ventilation
- ~~[ME 460.3 Automation and Robotics in Manufacturing](#)~~
- ME 461.3
- ME 463.3
- ME 472.3
- ~~[ME 475.3 Introduction to Mechatronics](#)~~
- [ME 477.3](#) Engineering Materials II
- [ME 478.3](#) Introduction to Fire Protection Engineering

Term 1 or Term 2

- [CHE 453.3](#) Corrosion Engineering
- ME 450.3
- ~~[ME 460.3 Automation and Robotics in Manufacturing](#)~~
- [ME 462.3](#) Structure Texture and Properties of Engineering Materials
- [ME 464.3](#) Introduction to Composite Materials
- [ME 471.3](#) Introduction to Aerodynamics
- [ME 473.3](#) Introduction to Computational Fluid Dynamics
- ~~[ME 475.3 Introduction to Mechatronics](#)~~
- [ME 476.3](#) Multiphase Flow and Heat Transfer
- [ME 488.3](#) Mechanical Engineering Research Project
- approved senior course(s) from science or Engineering

Design Electives

Design Electives are offered subject to minimum enrolment limits and staffing considerations. Consult the current Course Offerings to determine the availability of specific electives. Students must take a minimum of 6 credit units from the list of Design Electives.

Term 1

- [ME 496.3](#) Machine Design II

Term 2

- [ME 490.3](#) Design of Fluid Power Circuits
- [ME 492.3](#) Materials in Engineering Design

Term 1 and Term 2

- [GE 496.3](#) Technological Innovation Design Project
- ME 494.3

Term 1 or Term 2

- [ME 491.3](#) Thermal Systems Design
- [ME 493.3](#) Advanced Mechanical Design
- [ME 497.3](#) Acoustics and Vibrations in Design

Junior Humanities or Social Science Elective

- [ANTH 111.3](#) One World Many Peoples Introduction to Cultural Anthropology
- [ARCH 112.3](#) The Human Journey Introduction to Archaeology and Biological Anthropology
- ARCH 116.3
- [CLAS 104.3](#) Classical Myths
- [CLAS 110.3](#) Greek Civilization
- [CLAS 111.3](#) Roman Civilization
- [CMRS 110.3](#) The Graeco Roman Tradition Evolution and Reception
- [CMRS 111.3](#) Medieval and Renaissance Civilization
- [ECON 111.3](#) Introductory Microeconomics
- [ECON 114.3](#) Introductory Macroeconomics
- [GEOG 130.3](#) Environment Health and Planning
- HIST 110.3
- HIST 111.3

- **HIST 115.3** History Matters Ideas and Culture
- HIST 121.3
- HIST 122.3
- **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
- **INDG 107.3** Introduction to Canadian Indigenous Studies
- **LING 111.3** Structure of Language
- **LING 112.3** Dynamics of Language
- **PHIL 120.3** Knowledge Mind and Existence
- **PHIL 133.3** Introduction to Ethics and Values
- **PHIL 140.3** Critical Thinking
- **POLS 111.3** Politics Power and Government
- **POLS 112.3** Justice and Injustice in Politics and Law
- **PSY 120.3** Biological and Cognitive Bases of Psychology
- **PSY 121.3** Social Clinical Cultural and Developmental Bases of Psychology
- **SOC 111.3** Foundations in Sociology Society Structure Process
- **SOC 112.3** Foundations in Sociology Social Construction of Everyday Life
- **WGST 112.3** Introduction to Womens and Gender Studies

Senior Humanities or Social Science Elective

- **ANTH — 200-Level, 300-Level, 400-Level**
- **ARCH — 200-Level, 300-Level, 400-Level**
- **CLAS — 200-Level, 300-Level, 400-Level**
- **ECON — 200-Level, 300-Level, 400-Level**
- **ENG — 200-Level, 300-Level, 400-Level**
- **GEOG 202.3** Regional Geography of Canada
- **GEOG 204.3** Geography of the Prairie Region
- **GEOG 208.3** World Regional Development
- **GEOG 240.3** Sustainable Cities and Regions
- **GEOG 280.3** Environmental Geography
- **HIST — 200-Level, 300-Level, 400-Level**
- **INDG — 200-Level, 300-Level, 400-Level**
- **IS — 200-Level, 300-Level, 400-Level**
- **PHIL — 200-Level, 300-Level, 400-Level**
- **POLS — 200-Level, 300-Level, 400-Level**
- **PSY — 200-Level, 300-Level, 400-Level**
- **RLST — 200-Level, 300-Level, 400-Level**

- [SOC — 200-Level, 300-Level, 400-Level](#)
- [WGST — 200-Level, 300-Level, 400-Level](#)
- **Exception:** ECON 204 cannot be used to meet the Complementary Studies, Senior Humanities or Social Science elective requirements of the program.
- **Exception:** PSY 233 and PSY 236 cannot be used to meet the Complementary Studies, Senior Humanities or Social Science elective requirements of the program.
- **Exception:** PHIL 241 cannot be used to meet the Senior Humanities or Social Science elective requirements of the program.
- **Exception:** SOC 225 cannot be used to meet the Complementary Studies, Senior Humanities or Social Science elective requirements of the program.
- **Note:** The following Engineering courses will also satisfy the Humanities/Social Science elective requirement: RCM 400, RCM 401, RCM 402, RCM 403, RCM 404, RCM 405, RCM 406, RCM 407, RCM 408, RCM 409, RCM 410, and RCM 495.

Complementary Studies Elective

- [ANTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARBC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARCH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CHIN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CLAS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CMRS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [COMM 201.3](#) Introduction to Financial Accounting
- [COMM 203.3](#) Introduction to Finance
- [COMM 204.3](#) Introduction to Marketing
- [COMM 205.3](#) Introduction to Operations Management
- [COMM 210.3](#) Introduction to Management Accounting
- [COMM 211.3](#) Human Resource Management
- [COMM 229.3](#) Personal Financial Management
- [COMM 304.3](#) Introduction to Business Law
- [COMM 306.3](#) Ethics and Strategic Decision Making
- [COMM 308.3](#) Cost Management Systems
- [COMM 321.3](#) Corporate Financial Reporting I
- [COMM 323.3](#) Corporate Financial Reporting II
- [COMM 329.3](#)
- [COMM 337.3](#) Business Information and Accounting Systems
- [COMM 340.3](#) Introduction to International Business
- [COMM 342.3](#) Organization Structure and Design
- [COMM 343.3](#) Recruitment Selection and Engagement
- [COMM 345.3](#) Business and Public Policy

- [COMM 346.3](#) Technology Commercialization
- [COMM 347.3](#) Indigenous Business in Canada
- [COMM 348.3](#) Leadership
- [COMM 349.3](#) Introduction to Entrepreneurship
- [COMM 352.3](#) Marketing Strategy
- [COMM 354.3](#) Consumer Behaviour
- [COMM 357.3](#) Marketing Research
- [COMM — 100-Level](#)
- [CREE — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ECON 111.3](#) Introductory Microeconomics
- [ECON 114.3](#) Introductory Macroeconomics
- [ECON 211.3](#) Intermediate Microeconomics
- [ECON 214.3](#) Intermediate Macroeconomics
- [ECON 221.3](#) Women and the Economy
- [ECON 223.3](#) Labour Economics
- [ECON 227.3](#) Wage Determination
- [ECON 231.3](#) Co operatives
- [ECON 234.3](#) Economics of Health Care
- [ECON 254.3](#) International Trading System
- [ECON 256.3](#) International Monetary System
- [ECON 270.3](#) Development in Non Industrialized Countries
- [ECON 272.3](#)
- [ECON 275.3](#) Economics of Natural Resources
- [ECON 277.3](#) Economics of the Environment
- [ECON 280.3](#) Classical Economics
- [ENG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [FREN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GE 431.3](#) Engineering Entrepreneurship Capstone
- [GE 450.3](#) Technology Innovation Management
- [GEOG 130.3](#) Environment Health and Planning
- [GEOG 202.3](#) Regional Geography of Canada
- [GEOG 204.3](#) Geography of the Prairie Region
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 280.3](#) Environmental Geography
- [GERM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GRK — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HEB — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HNDI — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [IS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [JPNS — 100-Level, 200-Level, 300-Level, 400-Level](#)

- **LATN — 100-Level, 200-Level, 300-Level, 400-Level**
- **LING — 100-Level, 200-Level, 300-Level, 400-Level**
- **LIT — 100-Level, 200-Level, 300-Level, 400-Level**
- **MUS 101.3** Fundamentals of Music I Exploring Foundations
- **PHIL 120.3** Knowledge Mind and Existence
- **PHIL 121.3** Introduction to World Philosophies
- **PHIL 133.3** Introduction to Ethics and Values
- **PHIL 140.3** Critical Thinking
- **PHIL 202.3** Philosophy of Religion
- **PHIL 206.3** Early Modern Philosophy
- **PHIL 208.3** Ancient Philosophy Presocratics to Plato
- **PHIL 209.3** Ancient Philosophy Aristotle to Plotinus
- **PHIL 210.3** Medieval Philosophy I From Rome to Baghdad and Paris
- **PHIL 211.3** Philosophy and Faith Medieval Philosophy II
- PHIL 215.3
- **PHIL 218.3** Existentialism
- **PHIL 219.3** Phenomenology
- **PHIL 224.3** Philosophy of Sexuality
- **PHIL 226.3** Environmental Philosophy
- PHIL 227.3
- **PHIL 231.3** Moral Problems
- **PHIL 233.3** Ethical Theory
- **PHIL 234.3** Biomedical Ethics
- PHIL 235.3
- **PHIL 236.3** Ethics and Technology
- **PHIL 237.3** Law and Morality
- **PHIL 238.3** Ethical Issues in Scientific Research
- **PHIL 251.3** Philosophy of Science
- **PHIL 262.3** Social and Political Philosophy
- **PHIL 265.3** Decision and Choice Theory
- **PHIL 271.3** Aesthetics and Philosophy of Art
- **PHIL 281.3** Theory of Knowledge
- **PHIL 285.3** Persons Minds and Bodies
- **PHIL 292.3** Metaphysics Reality Existence and Change
- **PHIL 294.3** Philosophy of Human Nature
- PHIL 296.3
- **POLS — 100-Level, 200-Level, 300-Level, 400-Level**
- **PSY — 100-Level, 200-Level, 300-Level, 400-Level**
- **RCM — 400-Level**
- **RLST — 100-Level, 200-Level, 300-Level, 400-Level**
- **RUSS — 100-Level, 200-Level, 300-Level, 400-Level**
- **SNSK — 100-Level, 200-Level, 300-Level, 400-Level**
- **SOC — 100-Level, 200-Level, 300-Level, 400-Level**

- [SPAN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [UKR — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)

Exception: [COMM 121.3](#) Business Mathematics is restricted to Edwards School of Business students.

Note: Special Topics courses cannot be used to meet a Complementary Studies Elective Requirement (any course ending in 98 or 99).

Note for Clarification – CHE 470

The deletion of CHE 470 “Industrial Site Visitation” was approved in the April 2024 University Course Challenge, as follows:

Chemical Engineering Program: 1) Motion: To permanently delete ‘CHE 470 – Industrial Site Visitation’ from the Chemical Engineering Program.

For clarity, the course was approved for deletion and for deletion from the Bachelor of Science in Chemical Engineering program.

University Course Challenge – May 2024

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

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

Community Health and Epidemiology

New courses

CHEP 840.1 Data Analysis Using Excel for Health Research

Catalogue Description: Graduate students in the health and social sciences with research interests in individual, population, and public health will benefit from this course which provides them opportunities to learn and practice using Excel as a tool for entering, managing, analyzing, and sharing health research data. In this course, students will use strategies in Excel to facilitate accurate data entry, improve data quality, and make it easier to analyze data. The emphasis is on applied learning and hands on practice. Students will gain further experience in the manipulation and handling of data and start to understand the important role that spreadsheets can perform in a data analysis environment. Students will complete a final project where they incorporate the Excel skills they have learned to analyze and interpret data from a provided data set to answer a health research question.

Permission required: Departmental approval

Restrictions: Restricted to students in the Department of Community Health and Epidemiology

Rationale: The Community and Population Health Science (CPHS) MSc program revised its delivery for fall 2023 with an option to select a one credit unit course to meet minimum program requirements (approved by University Council effective 31 December 2022). This Data Management and Analysis in Excel for Health Research course has been developed in partnership with the Clinical Research Support Unit (CRSU) as a skills-based elective to meet this requirement. It has already been offered twice as an 898.

CHEP 844.1 STATA Software for Health Research

Catalogue Description: Graduate students in the health and social sciences with research interests in individual, population, and public health will learn to use STATA, a statistical software frequently used in health research. This course provides an overview and practice with data entry, data management and manipulation, and visualization using STATA. This course also covers basic statistical application, including the Chi-square test, T-test, ANOVA, linear regression, and logistic regression. To demonstrate proficiency, students will be given a dataset with steps to follow and analyze based on the learning outcomes. Students will complete a final project where they incorporate the STATA skills they have learned to analyze and interpret data from a provided data set to answer a health research question.

Permission required: Departmental approval

Restrictions: Restricted to students in the Department of Community Health and Epidemiology

Rationale: The Community and Population Health Science (CPHS) MSc program revised its delivery for fall 2023 with an option to select a one credit unit course to meet minimum program requirements (approved by University Council effective 31 December 2022). This STATA course has been developed in partnership with the Clinical Research Support Unit (CRSU) as a skills-based elective to meet this requirement. It has already been offered twice as an 898.

Languages, Literatures, and Cultural Studies

New Courses

FREN 810.3 Advanced Strategies for Writing Academic and Creative Texts in French

Catalogue Description: This course will focus on the rules of grammar and the use of expressions and writing strategies that will improve the quality of your written work in French. You will learn to prepare and perfect bibliographies, summaries, reviews and essays, and write a biography, a review of a play, or a creative work to be sent to l'Eau vive, the Francophone newspaper, or its Horizon-Chronique littéraire, or to À ciel ouvert, the Francophone online magazine for Western and Northern Canada. The goal of this course is to perfect your grammar and editing skills and allow you to write better essays as well as conference papers in French.

Note: Students with credit for FREN 310 will not receive credit for this course.

Rationale: The Department has been facing the fact that some of our French graduate students need to improve their writing skills and understand more clearly what plagiarism means. We also would like to help our French graduate students acquire more advanced literary vocabulary that will help them, on one hand write better essays and conference papers in French, on the other hand write creative texts in French. FREN 810 is the only French graduate course that focus entirely on the art of producing a well written essay or creative text in French. FREN 810 will be cross-listed with FREN 310.

Pharmacy and Nutrition

New Courses

PHAR 810.3 Radiopharmacy

Catalogue Description: During the lectures, the students will be presented with the basic principles of radiochemistry, radiolabeling, making radiopharmaceuticals, their quality control and applications for imaging and therapy of patients. They will have the opportunity to learn how to perform the calculations needed to manufacture radiopharmaceuticals and how to operate a radiopharmacy. They will also take part in two field trips to the Fedoruk Center for Nuclear Innovation and to the Department of Nuclear Medicine at the Royal University Hospital to observe first-hand how radiopharmaceuticals are manufactured and used in patients care, respectively..

Instructor: Ekaterina (Kate) Dadachova

Rationale: This course was offered as a Special Topics course in 2021 and 2023 and was received really well by the graduate students from the College of Pharmacy and Nutrition, College of Medicine and WCVN. Several postdoctoral fellows also audited this course. The plan going forward is to offer it every 1.5 years to get sufficient enrollment.

Plant Science

Course Modifications

PLSC 822.3 Rangeland Ecology and Management

Proposed note: Students with credit for PLSC 422 will not receive credit for this course.

Rationale: PLSC 422 has been offered as an undergraduate course for many years. It is being cross-listed as a graduate class so that graduate students with a limited background in the subject area – Rangeland

Ecology and Management – can have the opportunity to expand their knowledge in this area. We have multiple faculty in AgBio and in Biology conducting research in this area and this course offers their students a broad knowledge relevant to their theses. By changing how students are evaluated, we can also offer graduate students' opportunities to develop skills they need (oral and written presentation) while avoiding skills they have much practice in (test taking).

Soil Science

Course modification

SLSC 813.3 Soil Chemistry

Proposed Note: Students with credit for SLSC 313 will not receive credit for this course.

Rationale: To ensure that a soil chemistry course is consistently available for graduate students. Conceptually, cross-listing the courses (SLSC 813 and SLSC 313) makes sense as the chemical concepts and overall organization of the two classes is similar. They differ primarily in that the undergraduate course is taught with an emphasis on case studies and environmental processes, and the graduate course has more of an emphasis on theory and fundamental chemical concepts. Both groups of students could benefit from being in a joint classroom.

SLSC 845.1 Soil Ecology

Current credit units: 1

Proposed credit units: 3

New Course Number: SLSC 844.3

Proposed note: Students with credit for SLSC 444 will not receive credit for this course.

Rationale: To ensure that a soil ecology course is consistently available for both undergraduate and graduate students. Both courses are conceptually similar with a focus on the role of soil organisms in the decomposition of organic matter for plant nutrition and how aboveground management affects the belowground soil ecology. SLSC 844 and SLSC 444 will be cross-listed.

FOR INFORMATION - CGPS

ECONOMICS

ECON 808.3 Econometrics I

Current weekly hours: 3 Lecture hours

Proposed weekly hours: 3 Lecture hours and 1 Practicum/Lab hour

Rationale: This course introduces students to econometric theory, and teaches them how to apply empirical methods in practice. It has been taught with weekly lab or tutorial sessions for a long time. These "applied laboratory sessions" are even mentioned in the course description. However, the lab sessions are not accounted for in the weekly hours in the catalogue entry, which is likely an oversight. Our new administrative assistant caught this inconsistency, and the department would like to fix this. This change will not have a real practical impact on our students or the programs utilizing the course, but it will improve transparency.

NURSING

Program deletion

Nursing PhD Direct Entry

Rationale: The College of Nursing has never received an application through this admission pathway. To date, all applicants to the PhD in Nursing have already completed a masters program, making this admission pathway unnecessary. Non-direct (standard) and transfer from master's to PhD admission pathways will remain viable options for admission to the PhD in Nursing.

PSYCHOLOGY

PSY 846.3: Advanced Seminar in Human Neuropsychology

Current Title: Advanced Seminar in Human Neuropsychology

Proposed Title: Selected Topics in Advanced Human Neuropsychology

Current Description: A critical review of theory, research and methodology in human neuropsychology.

Using a combination of lectures and seminars, students will be exposed to the recent literature on topics such as brain localization and lateralization of functions, brain damage and recovery, and the neuropsychology of "higher-order" functions.

Proposed description: A critical review of theory, research and methodology related to a selected topic in human neuropsychology. Through lectures and seminars, students will be exposed to recent literature on the selected topic, such as brain localization and lateralization of functions, brain damage and recovery, or the neuropsychology of "higher-order" functions.

Rationale:

This change is being requested to better align the course description with how the course is currently being taught and to facilitate students' ability to receive credit for different offerings of the course.

How the course is taught: Our current practice is that different faculty teach this course in different years, and each faculty member focuses the content on a different topic. Examples of course topics over the last several years are as follows: Brain Health (Marla Mickleborough), Electrophysiology of Cognition (Janeen Loehr), **Functional Imaging of Cognitive Processes Involved in Language** (Ron Borowsky), and Cognitive Neuroscience of Attention (Steven Prime). Changing the course to "Selected Topics in..." will more accurately reflect this practice.

How students receive credit: Currently, our students sometimes take PSY 846 more than once, as long as the topic is different each time. However, this requires extra administrative work for Joni (I believe a special note has to be added to the student's transcript to confirm the offerings have different topics.) In contrast, per university policy, students are automatically allowed to receive credit for multiple offerings of a "Selected Topics in" course. When the course section is built, the course title reflects the specific topic of the particular offering and thus transcripts clearly reflect the topics covered.

Resource implications: This change would have no resource implications because it simply aligns the course description with our current practices.

Soil Science

Item for clarification

SLSC 819.3 Remediation and Reclamation of Contaminated Sites was originally created and approved through [course challenge](#) as SLSC 821. The SLSC 821 number was not available, so the course is numbered SLSC 819. All attributes approved under SLSC 821 apply to SLSC 819, including the approved cross-listing with EVSC 421.

College of Kinesiology – May 2024 University Course Challenge

The following changes have been approved through the College of Kinesiology and are now being proposed to University Course Challenge for approval:

New Course Proposal

KIN 477.3 Neuromuscular Physiology 1(3L-1.5P)

The purpose of this course is to review basic concepts and introduce advanced topics in Neuromuscular Physiology. The course will provide undergraduate students with an experience that includes reading and discussion of neuromuscular physiology topics and their application to research on acute and chronic training, disuse, and neurological injury. Focus will be on acquiring the skills and knowledge necessary for the appropriate application of various neurophysiological measurement techniques in humans.

Prerequisite: KIN 225.3, KIN 226.3, KIN 222.3, and KIN 322.3

Rationale: The ongoing undergraduate curriculum review in the College of Kinesiology includes the recommendation of building more upper year electives (particularly 4th year) in our curriculum. The proposal aligns with the college's goals to offer more experiential and practical learning opportunities

Course Revision

KIN ~~360.3-350.6~~: Huskie Athletics Student Trainer Practicum I

This practicum allows successful student trainer applicants to attain 3 credit units for their commitment to a Huskie Athletics season. Student trainers will be assigned to a varsity sports team in the fall semester. The Student Trainer Practicum I includes a pre-season orientation, education seminars, shadowing in Huskie Health/week, team involvement at practices and games, and meeting with their supervisor. The orientation will take place at the beginning of term one in the fall to educate students on their roles and responsibilities when working with a team, Huskie Health policies and procedures, USPORT and CANWEST requirements, policies and procedures, and expectations working alongside an IST (Integrated Support Team). Students will be evaluated and will receive a grade for this practicum.

Prerequisite(s): **CPPS 221.3** and a minimum of 30 credit units at the university; successful Interview and acceptance into the ~~Huskie Athletics Student Trainer Volunteer Program~~ program; Standard First Aid and CPR; Sport First Responder (hosted by Huskie Health and offered to students in Spring/Summer **entering their first year**).

Prerequisite(s) or Corequisite(s): KIN 321.3

Rationale: The Huskie Athletics Student Trainer Practicum is approaching its third year of completion. When KIN 360 and 460 were approved as courses in Spring of 2020, the decision to have KIN 360 as 3 credit units(CU's) was due to the course appearing as a steppingstone class to reach KIN 460. With KIN 321 as a corequisite/pre-requisite to KIN 360 the administrative rationale was based on 6 CU's for which students receive 3 CU's from KIN 321 and 3 CU's from KIN 360. After offering the program for 3 years, it is clear that these are two separate courses, with their distinct syllabi, that students are meeting the 3 CU course requirement for KIN 321 of 30-39 instructional course hours and the amount of work required of students is the same in KIN 360 as it is in KIN 460. This proposal is requesting that students earn 6 credit units for both KIN 360 and KIN 460. The practicums will continue to differ in their course

objectives, and evaluations but the amount of field hours and team support provided is the same amongst both years.

University Course Challenge, May 2024 – College of Law

The following has been approved through the College of Law and is now being submitted to University Course Challenge for approval.

New Course Proposals

Law 409.3 Rural Legal Externship Seminar, Term 1 or 2 (3S)

This seminar will provide a theoretical framework and reflective space for 2L and 3L students to deepen their understanding of rural law, ethics, and practical issues they encounter in their externship placements. It aims to complement the hands-on externship experience with academic inquiry and discussion, enriching students' overall learning and professional development. The LAW 409.3: Rural Legal Externship Seminar is designed to run concurrently with Law 434.12 - Rural Legal Externship. It may include guest lectures from experts in rural law, workshops on specialized topics and sessions focused on developing professional skills such as negotiation and advocacy. The seminar will also provide a forum for students to present their experiences, challenges, and successes from their externships, fostering a collaborative and supportive learning environment.

Corequisite: LAW 434.12 Rural Legal Externship

Rationale:

The [Legal Needs Survey](#) in the Province of Saskatchewan: Perspectives of Lawyers and Legal and Non-Legal Service Providers (2023) highlights a lack of access to legal support in rural areas. There is a significant deficit of lawyers, and an aging bar in rural areas which is impacting our ability to provide legal services (Stoliker et al., 2023, p. 73). The Saskatchewan law student rural externship presents a unique opportunity for law students to gain invaluable experience while making meaningful contributions to rural communities. Through collaboration with Legal Aid and Public Prosecutions, we aim to create a comprehensive and sustainable externship experience that fosters professional growth, enhances community engagement, and enriches the educational experience of future legal professionals. By following this implementation plan, we anticipate a successful pilot phase culminating in a well-rounded and impactful experiential learning opportunity for all stakeholders involved.

- Provide University of Saskatchewan law students with immersive, hands-on experiences in diverse Family Law and Criminal Law oriented settings, including Legal Aid and Prosecutions, to develop practical skills and deepen their understanding of real-world legal practice.
- Foster meaningful engagement with rural communities by addressing their legal needs through experiential learning opportunities, thereby strengthening the relationship between legal practitioners and communities.
- Facilitate the professional identity formation of students by offering mentorship, feedback, and guidance from experienced legal professionals, leading to enhanced competencies.

LAW 434.12 Rural Legal Externship

The Rural Legal Externship leverages an experiential education model where law students learn through direct experience, hands-on mentorship, and critical reflection. Centered around students' clinical experiences in a rural legal setting at Legal Aid or Public Prosecutions, they will work with client files across a spectrum of legal areas potentially including family law and criminal law, gaining a deeper

understanding of various legal challenges specific to rural communities. Students will be supervised throughout their legal assignments by a practicing lawyer, ensuring guidance and support as they navigate real-world client files. As part of their externship and the associated seminar, students will gain essential tools to critically reflect upon their legal practice and explore their identities as future lawyers.

This immersive insight into the legal system in rural areas prepares students to effectively contribute to and advocate within these communities. Students are expected to engage in their extern duties from Monday to Thursday each week, with Friday mornings dedicated to attending an online clinical law seminar. **Upon approval, would meet the program requirement for a Seminar Class.**

Prerequisite: Successful completion of first year Law

Corequisite: Law 409.3 Rural Legal Externship Seminar

Rationale:

The [Legal Needs Survey](#) in the Province of Saskatchewan: Perspectives of Lawyers and Legal and Non-Legal Service Providers (2023) highlights a lack of access to legal support in rural areas. There is a significant deficit of lawyers, and an aging bar in rural areas which is impacting our ability to provide legal services (Stoliker et al., 2023, p. 73). The Saskatchewan law student rural externship presents a unique opportunity for law students to gain invaluable experience while making meaningful contributions to rural communities. Through collaboration with Legal Aid, Public Prosecutions, and rural law firms, we aim to create a comprehensive and sustainable externship experience that fosters professional growth, enhances community engagement, and enriches the educational experience of future legal professionals. By following this implementation plan, we anticipate a successful pilot phase culminating in a well-rounded and impactful experiential learning opportunity for all stakeholders involved.

- Provide University of Saskatchewan law students with immersive, hands-on experiences in diverse Family Law and Criminal Law oriented settings, including Legal Aid and Prosecutions to develop practical skills and deepen their understanding of real-world legal practice.
- Foster meaningful engagement with rural communities by addressing their legal needs through experiential learning opportunities, thereby strengthening the relationship between legal practitioners and communities.
- Facilitate the professional identity formation of students by offering mentorship, feedback, and guidance from experienced legal professionals, leading to enhanced competencies.

LAW 496.3 Indigenous Nation Building Theory, Term 1 or 2 (3S)

This course explores critical nation-building issues of Indigenous peoples in North America. It will use the Harvard Project on American Indian Economic Development (HPAIED) theory. It will focus on the issues surrounding the assertion of self-determination by Indigenous Nations. Students will examine current Indigenous institutions of self-government; and assess policies of Indigenous and non-Indigenous governments, and capacity building methods for effective governance. Students will describe augmenting leadership skills, knowledge, and abilities for nation building.

Prerequisite: LAW 436.3 Canadian Aboriginal Law and/or LAW 453.3 Aboriginal Law and Policy in Canada, or another equivalent course that provides historical information on the current status of Indigenous peoples, as approved by the instructor.

Rationale: Indigenous Nations have been subjected to colonialistic policies and laws for over 100 years. Notably, the Indian Act has had far-reaching (mostly negative) effects on Indigenous Nations, including removal of traditional Indigenous governance structures. The suppression of Indigenous institutions of governance is not merely historical, but ongoing. Many Indigenous Nations are exploring ways to assert their jurisdiction and create or revitalize governance systems for themselves, which advance their own goals to assert and implement self-determination. This course will explore various ways in which Indigenous Nations are revitalizing and (re)building their Nations.

This course was successfully offered previously as a Special Topics 498 class. **Upon approval, would meet the program requirement for an Indigenous course.**

Pending approval in this Course Challenge, the above courses would be incorporated into the Juris Doctor (J.D.) program, as follows in red:

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

Year 1 (30 credit units)

During the first year, students must pass LAW 245 Legal Research and Writing with a grade of 60% or better and must pass LAW 244 Dispute Resolution. In addition, students must pass each of the following courses, and achieve an annual GPA of 64% or better:

- [LAW 202.5](#) Contracts
- [LAW 203.5](#) Criminal Law
- [LAW 210.5](#) Property I
- [LAW 211.5](#) Tort Law I
- [LAW 230.5](#) Constitutional Law
- [LAW 232.3](#) Kwayeskastasowin Setting Things Right
- [LAW 244.0](#) Dispute Resolution
- [LAW 245.2](#) Legal Research and Writing

Year 2 and Year 3 (60 credit units)

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

The following course is required in Year 2:

- [LAW 340.3](#) Administrative Law I

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

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

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

- [LAW 308.3](#) Global Indigenous Rights and Resource Development
- [LAW 313.3](#) Selected Topics in Indigenous Legal Studies
- [LAW 341.3](#) First Nations Economic Development
- [LAW 422.3](#) Indigenous Legal Processes
- [LAW 436.3](#) Aboriginal Law
- [LAW 443.3](#) Indigenous Peoples and the Criminal Process
- [LAW 447.3](#) Aboriginal Rights Moot
- [LAW 453.3](#) Aboriginal Law and Policy in Canada
- LAW 473.3
- LAW 479.3
- LAW 480.3 Indigenous Peoples in International and Comparative Law
- [LAW 496.3](#) Indigenous Nation Building Theory

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

- [LAW — 300-Level, 400-Level](#)

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

- [LAW 305.3](#) Clinical Law
- [LAW 306.3](#) Law Foundation of Saskatchewan Chair Seminar.
- [LAW 309.3](#) Estey Chair in Business Law Seminar.
- [LAW 341.3](#) First Nations Economic Development
- [LAW 349.3](#) Housing Homelessness and the Law

- LAW 393.3
- LAW 400.3
- [LAW 405.3](#) Advanced Criminal Law
- [LAW 406.3](#) Law and Culture
- [LAW 413.3](#) Current Issues in Law Reform
- [LAW 414.3](#) Access to Justice and the Institutions of Justice
- [LAW 416.3](#) Elder Law
- [LAW 418.3](#) Sexual Assault
- [LAW 420.3](#) Current Issues in Insolvency
- [LAW 422.3](#) Indigenous Legal Processes
- [LAW 424.3](#) Sports Law
- [LAW 426.3](#) Advanced Secured Transactions
- LAW 429.3
- [LAW 431.3](#) Advanced Constitutional Law
- [LAW 432.3](#) Human Rights
- [LAW 433.3](#) Sallows Human Rights Seminar
- [LAW 435.3](#) Law and Economics
- [LAW 438.3](#) Economic Inequality Poverty and the Law
- [LAW 442.3](#) Refugee Law
- [LAW 443.3](#) Indigenous Peoples and the Criminal Process
- [LAW 446.3](#) Natural Resources Law
- [LAW 453.3](#) Aboriginal Law and Policy in Canada
- [LAW 409.3](#) Rural Law Seminar
- [LAW 458.3](#) Advanced Health Law
- [LAW 462.3](#) Cooperative Law
- [LAW 463.3](#) Fiduciary Obligations
- [LAW 465.3](#) Law Development and the International System
- [LAW 466.3](#) Youth Criminal Justice
- [LAW 468.3](#) Advanced Family Law
- LAW 470.3
- LAW 473.3
- [LAW 474.3](#) Children and Law
- LAW 479.3
- LAW 480.3
- [LAW 481.3](#) Business Regulation
- [LAW 482.3](#) Criminal Intensive Seminar
- LAW 485.3
- [LAW 486.3](#) Law and Psychiatry
- LAW 488.3
- [LAW 491.3](#) Clinical Law Seminar
- LAW 493.3
- [LAW 494.3](#) Prison Law and Human Rights
- [LAW 496.3](#) Indigenous Nation Building Theory
- [LAW 497.3](#) Legal Ethics Clinical Seminar

Please note the following:

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

*Students who choose to complete [LAW 497.3](#) Legal Ethics Clinical Seminar must complete [LAW 492.12](#) Clinical Law Practicum concurrently. **Students who choose to complete LAW 409.3 Rural Law Seminar must complete LAW 434.12 Rural Law Externship concurrently. Both LAW 434.12 Rural Law Externship and [LAW 492.12](#) Clinical Law Practicum will be counted toward the 15 credit unit course load per term required in Years 2 and 3.**

University Course Challenge – May 2024

The following curricular changes were approved by the College of Pharmacy and Nutrition – Pharmacy Program Advisory Committee and Division of Pharmacy and are being submitted to the May 2024 course challenge for approval.

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

New Course

PHAR 393.0

Title: Capstone Year 3

Catalogue Description: This course consists of a capstone (comprehensive) exam at the conclusion of Year 3 of the PharmD program to formatively assess the competencies across all courses in Year 3.

Restriction(s): Admission to the Pharm.D. program in the College of Pharmacy & Nutrition

Prerequisite(s): PHAR 390.0

Rationale: In order to be successful in the PharmD program, and as a practicing pharmacist, the student must be able to bring together learning and concepts from a number of different courses in order to provide optimal patient care. Such an exam will help inform the student about where they are strong and where they may need to improve. The results of the capstone course could provide the basis for any remediation the student may need to undertake in the following year.

NOTE: The new course will be required in the PharmD program and the combined PharmD/MBA program.

Doctor of Pharmacy (Pharm.D.) (170 credit units)

Year 1 (49 credit units)

Fall Term

- [PHAR 110.3](#) Introduction to Pharmacy and the Health Care System
- [PHAR 121.3](#) Foundational Sciences 1: Foundational Pathophysiology & Pharmacology
- [PHAR 122.3](#) Foundational Sciences 2: Medicinal Chemistry and Physical Pharmacy
- [PHAR 153.4](#) Self-Care 1: Non-prescription Pharmaceuticals and Supplies
- [PHAR 162.3](#) Pharmacy Practice 1: The Patient Care Process
- [PHAR 170.3](#) Pharmacy Skills Development 1
- [PHAR 190.0](#) Introduction to Year 1
- [PHAR 191.1](#) IPE Activities

Winter Term

- [PHAR 111.1](#) Foundations for Practice: Pharmacy Mathematics and Calculations
- [PHAR 112.1](#) Pharmacy Law
- [PHAR 123.3](#) Foundational Sciences 3: Foundational Pathophysiology and Pharmacology
- [PHAR 124.3](#) Foundational Sciences 4: Introduction to Pharmaceutics
- [PHAR 152.6](#) Pharmacotherapeutics 1
- [PHAR 154.3](#) Self-Care 2: Non-prescription Pharmaceuticals and Supplies
- [PHAR 171.3](#) Pharmacy Skills Development 2

- [PHAR 192.1](#) IPE Activities

Fall and Winter Terms

- [PHAR 188.2](#) Experiential Learning 1
- [PHAR 189.2](#) Service Learning
- [PHAR 193.0](#) Capstone Year 1

Spring and Summer Terms

- [PHAR 185.4](#) Experiential Learning – Introductory Pharmacy Practice Experience: Community

Year 2 (47 credit units)

Fall Term

- [PHAR 224.3](#) Science of Pharmacotherapy 1: Pharmaceutics and Pharmaceutical Biotechnology
- [PHAR 226.3](#) Foundational Sciences 5 Pharmacokinetics and Biopharmaceutics
- [PHAR 253.6](#) Pharmacotherapeutics 2
- [PHAR 262.1](#) Pharmacy Practice 2
- [PHAR 271.3](#) Evidence Based Medicine
- [PHAR 272.3](#) Pharmacy Skills Development 3
- [PHAR 290.0](#) Introduction to Year 2
- [PHAR 291.1](#) IPE Activities

Winter Term

- 3 credit units of electives, as approved by the College of Pharmacy and Nutrition
- [PHAR 212.1](#) Pharmacy Ethics
- [PHAR 213.3](#) Management 1
- [PHAR 225.3](#) Science of Pharmacotherapy 2: Clinical Applications
- [PHAR 255.6](#) Pharmacotherapeutics 3
- [PHAR 263.1](#) Pharmacy Practice 3
- [PHAR 273.3](#) Pharmacy Skills Development 4
- [PHAR 292.1](#) IPE Activities

Fall and Winter Terms

- [PHAR 288.2](#) Experiential Learning 2
- [PHAR 293.0](#) Capstone Year 2

Spring and Summer Terms

- [PHAR 285.4](#) Experiential Learning – Introductory Pharmacy Practice Experience: Hospital

Year 3 (42 credit units)

Fall Term

- 3 credit units of electives, as approved by the College of Pharmacy and Nutrition

- [PHAR 324.3](#) Science of Pharmacotherapy 3: Toxicology
- [PHAR 350.3](#) Applied Pharmacotherapy in Older Adults
- [PHAR 358.6](#) Pharmacotherapeutics 4
- [PHAR 367.1](#) Pharmacy Practice 5
- [PHAR 374.3](#) Pharmacy Skills Development 5
- [PHAR 390.0](#) Introduction to Year 3
- [PHAR 391.1](#) IPE Activities

Winter Term

- 3 credit units of electives, as approved by the College of Pharmacy and Nutrition
- [PHAR 315.3](#) Issues in Health Care and Pharmacy Practice
- [PHAR 359.6](#) Pharmacotherapeutics 5
- [PHAR 368.1](#) Pharmacy Practice 6
- [PHAR 375.3](#) Pharmacy Skills Development 6
- [PHAR 392.1](#) IPE Activities
- [PHAR 395.3](#) Disease State Management Review and Update

Fall and Winter Terms

- [PHAR 388.2](#) Experiential Learning 3
- [PHAR 393.0](#) Capstone Year 3

Year 4 (32 credit units)

- [PHAR 481.8](#) Experiential Learning – Advanced Pharmacy Practice Experience 1: Hospital
- [PHAR 482.8](#) Experiential Learning – Advanced Pharmacy Practice Experience 2: Community
- [PHAR 483.8](#) Experiential Learning – Advanced Pharmacy Practice Experience 3: Other Direct Patient Care
- [PHAR 484.8](#) Experiential Learning – Advanced Pharmacy Practice Experience 4: Elective Practice or PHAR 485.4 and PHAR 486.4
- [PHAR 490.0](#) Introduction to Year 4
- PHAR 493.0 Capstone Year 4