



Academic Programs Committee of Council

University Course Challenge

Scheduled posting: January 2023

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

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

College of Arts and Science
College of Graduate and Postdoctoral Studies
College of Law
College of Nursing
College of Pharmacy and Nutrition

Approval: Date of circulation: January 16, 2023
 Date of effective approval if no challenge received: January 31, 2023

Next scheduled posting:

The next scheduled posting will be February 14, 2023, with a submission deadline of **February 10, 2023**. 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 – January 2023

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

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

College

Minor program revisions All Degree Programs

Add ENG 338 to the list of courses eligible to be included in the Indigenous Learning requirement.

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

Indigenous Learning

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

- [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
- [ANTH 480.3](#) Indigenous Peoples and Mental Health Anthropological and Related Perspectives
- [ARCH 350.3](#) Introduction to Boreal Forest Archaeology
- [DRAM 111.3](#) Practicum I Indigenous Performance Methods
- [ENG 242.3](#) Indigenous Storytelling of the Prairies
- [ENG 243.3](#) Introduction to Indigenous Literatures
- [ENG 335.3](#) The Emergence of Indigenous Literatures in Canada
- [ENG 338.3](#) **Contemporary North American Indigenous Literatures**
- [GEOG 465.3](#) Environment and Health in Indigenous Communities
- [HIST 195.3](#) History Matters Indigenous Perspectives on Canadian History
- [HIST 257.3](#) The Canadian Prairie to 1905
- [HIST 266.3](#) History Wars Issues in Native Newcomer Relations
- [HIST 315.3](#) Indigenous Health History
- [HIST 316.3](#) History of the Metis in Twentieth Century Prairie Canada
- [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [LING 253.3](#) Indigenous Languages of Canada
- [PLAN 445.3](#) Planning with Indigenous Communities
- [POLS 222.3](#) Indigenous Governance and Politics
- [INDG — 200-Level, 300-Level, 400-Level](#)

Rationale: ENG 338 has been approved for inclusion in the Indigenous Learning list by the Indigenous Course Committee, a standing committee of the Arts and Science Faculty Council. More choice on the list will benefit students, who will have more flexibility to select a class which fits their schedule, and aligns with their areas of interest.

History

Minor program revisions:

Bachelor of Arts Honours, Double Honours, Four-year and Three-year and Minor in History

Add NURS 410 to the list of restricted electives courses in the A4 Major Requirement, and as a course that can be used in the Minor.

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

A4 Major Requirement (63 credit units)

- [HIST 397.3](#) Approaches to History
- [HIST 494.0](#) Michael Swan Honours Colloquium

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

- [100-Level HIST Courses](#)

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

- [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
- [ANTH 480.3](#) Indigenous Peoples and Mental Health Anthropological and Related Perspectives
- [ARCH 350.3](#) Introduction to Boreal Forest Archaeology
- [DRAM 111.3](#) Practicum I Indigenous Performance Methods
- [ENG 242.3](#) Indigenous Storytelling of the Prairies
- [ENG 243.3](#) Introduction to Indigenous Literatures
- [ENG 335.3](#) The Emergence of Indigenous Literatures in Canada
- [GEOG 465.3](#) Environment and Health in Indigenous Communities
- [HIST 195.3](#) History Matters Indigenous Perspectives on Canadian History
- [HIST 257.3](#) The Canadian Prairie to 1905
- [HIST 266.3](#) History Wars Issues in Native Newcomer Relations
- [HIST 315.3](#) Indigenous Health History
- [HIST 316.3](#) History of the Metis in Twentieth Century Prairie Canada
- [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [LING 253.3](#) Indigenous Languages of Canada
- [PLAN 445.3](#) Planning with Indigenous Communities
- [POLS 222.3](#) Indigenous Governance and Politics
- [INDG — 200-Level, 300-Level, 400-Level](#)

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

- [300-Level HIST Courses](#)

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

- [400-Level HIST Courses](#)

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

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

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

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

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

A4 Major Requirement (45 credit units)

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

- [100-Level HIST Courses](#)

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

- [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
- [ANTH 480.3](#) Indigenous Peoples and Mental Health Anthropological and Related Perspectives
- [ARCH 350.3](#) Introduction to Boreal Forest Archaeology
- [DRAM 111.3](#) Practicum I Indigenous Performance Methods
- [ENG 242.3](#) Indigenous Storytelling of the Prairies
- [ENG 243.3](#) Introduction to Indigenous Literatures
- [ENG 335.3](#) The Emergence of Indigenous Literatures in Canada
- [GEOG 465.3](#) Environment and Health in Indigenous Communities
- [HIST 195.3](#) History Matters Indigenous Perspectives on Canadian History
- [HIST 257.3](#) The Canadian Prairie to 1905
- [HIST 266.3](#) History Wars Issues in Native Newcomer Relations
- [HIST 315.3](#) Indigenous Health History
- [HIST 316.3](#) History of the Metis in Twentieth Century Prairie Canada
- [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [LING 253.3](#) Indigenous Languages of Canada
- [PLAN 445.3](#) Planning with Indigenous Communities
- [POLS 222.3](#) Indigenous Governance and Politics
- [INDG — 200-Level, 300-Level, 400-Level](#)

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

- [300-Level HIST Courses](#)

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

- [400-Level HIST Courses](#)

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

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

- [200-Level , 300-Level or 400-Level HIST Courses](#)
- [200-Level , 300-Level or 400-Level CLAS Courses](#)
- [100-Level , 200-Level , 300-Level or 400-Level CMRS Courses](#)
- [400-Level GRK Courses](#)
- [400-Level LATN Courses](#)
- [NURS 410.3 History of Health Systems Public Health and Nursing in Canada](#)

Bachelor of Arts Three-year (B.A. Three-year) - History
A4 Major Requirement (33 credit units)

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

- [HIST — 100-Level](#)

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

- [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
- [ANTH 480.3](#) Indigenous Peoples and Mental Health Anthropological and Related Perspectives
- [ARCH 350.3](#) Introduction to Boreal Forest Archaeology
- [DRAM 111.3](#) Practicum I Indigenous Performance Methods
- [ENG 242.3](#) Indigenous Storytelling of the Prairies
- [ENG 243.3](#) Introduction to Indigenous Literatures
- [ENG 335.3](#) The Emergence of Indigenous Literatures in Canada
- [GEOG 465.3](#) Environment and Health in Indigenous Communities
- [HIST 195.3](#) History Matters Indigenous Perspectives on Canadian History
- [HIST 257.3](#) The Canadian Prairie to 1905
- [HIST 266.3](#) History Wars Issues in Native Newcomer Relations
- [HIST 315.3](#) Indigenous Health History
- [HIST 316.3](#) History of the Metis in Twentieth Century Prairie Canada
- [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [LING 253.3](#) Indigenous Languages of Canada
- [PLAN 445.3](#) Planning with Indigenous Communities
- [POLS 222.3](#) Indigenous Governance and Politics
- [INDG — 200-Level, 300-Level, 400-Level](#)

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

- [HIST — 300-Level](#)
- [HIST — 400-Level](#)

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

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

- [HIST — 200-Level, 300-Level, 400-Level](#)
- [CLAS — 200-Level, 300-Level, 400-Level](#)
- [CMRS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GRK — 400-Level](#)

- [LATN — 400-Level](#)
- [NURS 410.3](#) History of Health Systems Public Health and Nursing in Canada

Bachelor of Arts Double Honours - History - Major 1
A4 Major Requirement (39 credit units)

- [HIST 397.3](#) Approaches to History
- [HIST 494.0](#) Michael Swan Honours Colloquium

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

- [HIST — 100-Level](#)

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

- [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
- [ANTH 480.3](#) Indigenous Peoples and Mental Health Anthropological and Related Perspectives
- [ARCH 350.3](#) Introduction to Boreal Forest Archaeology
- [DRAM 111.3](#) Practicum I Indigenous Performance Methods
- [ENG 242.3](#) Indigenous Storytelling of the Prairies
- [ENG 243.3](#) Introduction to Indigenous Literatures
- [ENG 335.3](#) The Emergence of Indigenous Literatures in Canada
- [GEOG 465.3](#) Environment and Health in Indigenous Communities
- [HIST 195.3](#) History Matters Indigenous Perspectives on Canadian History
- [HIST 257.3](#) The Canadian Prairie to 1905
- [HIST 266.3](#) History Wars Issues in Native Newcomer Relations
- [HIST 315.3](#) Indigenous Health History
- [HIST 316.3](#) History of the Metis in Twentieth Century Prairie Canada
- [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [LING 253.3](#) Indigenous Languages of Canada
- [PLAN 445.3](#) Planning with Indigenous Communities
- [POLS 222.3](#) Indigenous Governance and Politics
- [INDG — 200-Level, 300-Level, 400-Level](#)

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

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

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

Double Honours - History - Major 2
Requirements (39 credit units)

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

- **HIST 397.3** Approaches to History
- **HIST 494.0** Michael Swan Honours Colloquium

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

- **HIST — 100-Level**

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

- **ANTH 202.3** Anthropology and Indigenous Peoples in Canada
- **ANTH 480.3** Indigenous Peoples and Mental Health Anthropological and Related Perspectives
- **ARCH 350.3** Introduction to Boreal Forest Archaeology
- **DRAM 111.3** Practicum I Indigenous Performance Methods
- **ENG 242.3** Indigenous Storytelling of the Prairies
- **ENG 243.3** Introduction to Indigenous Literatures
- **ENG 335.3** The Emergence of Indigenous Literatures in Canada
- **GEOG 465.3** Environment and Health in Indigenous Communities
- **HIST 195.3** History Matters Indigenous Perspectives on Canadian History
- **HIST 257.3** The Canadian Prairie to 1905
- **HIST 266.3** History Wars Issues in Native Newcomer Relations
- **HIST 315.3** Indigenous Health History
- **HIST 316.3** History of the Metis in Twentieth Century Prairie Canada
- **INDG 107.3** Introduction to Canadian Indigenous Studies
- **LING 253.3** Indigenous Languages of Canada
- **PLAN 445.3** Planning with Indigenous Communities
- **POLS 222.3** Indigenous Governance and Politics
- **INDG — 200-Level, 300-Level, 400-Level**

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

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

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

History - Minor

Requirements (24 credit units)

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

- [HIST — 100-Level](#)

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

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

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

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

Rationale: NURS 410.3 adds to capacity in medical/health history courses, and will give students interested in this stream an excellent web-based course option.

Items for Information - Corrections

College

Minor program revisions – Clarification and correction from December 2022 UCC:

- ASTR 213 is added to the list of courses eligible to be used in the Physics & Astronomy option that appears in the **template lists** for the B.Sc. (Type C, Requirement C3), B.Sc. (BMSC) (Type M, Requirement M3), and B.A.&Sc. (Type J, Requirement J2) programs.
- A number of majors for which this course will become eligible will not see any revision, as all of the courses in the affected requirement are specifically prescribed. The majors which will be affected are Applied Computing, Applied Mathematics, Biology, **Chemistry (B.Sc. Three-year only)**, Computer Science, Environment and Society, ~~Environmental Biology~~, Mathematics, and Statistics.

Computer Science

Minor program revisions – Correction from December 2022 UCC:

Corrections to the December UCC are shown in **purple**. Sections that are not changed from the December UCC have been omitted.

Bachelor of Science Honours, Four-year and Three-year in Computer Science

2. Move MATH 110/176 and MATH 116/177 from the C1 to the C4 Requirement and add MATH 133 and 134 (**and 177 in one instance where only MATH 116 appears**) as an option to each set, respectively.
...
5. Move PHIL 232 **and GE 449** from the C4 to the C3 Requirement.

Bachelor of Science Honours (B.Sc. Honours) - Computer Science

C3 Cognate Requirement (~~48~~ **24** ~~12~~ – **15** credit units)

Junior course requirements:

Choose **9 credit units** from the following areas, such that no more than 6 credit units are from any one area:

...

Senior course requirements:

- PHIL 232.3 Ethics and Professional Responsibility in Computer Science or GE 449.3 Engineering in Society
- ~~MATH 164.3~~ Introduction to Linear Algebra or MATH 266.3 Linear Algebra II (MATH 266.3 Linear Algebra II recommended)
- ~~STAT 241.3~~ Probability Theory

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

- ~~STAT 242.3~~ Statistical Theory and Methodology
- ~~STAT 245.3~~ Introduction to Statistical Methods
- ~~EE 216.3~~ Probability Statistics and Numerical Methods (EE 216.3 Probability Statistics and Numerical Methods is only for students in the College of Engineering)

Business Science

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C4 Major Requirement (~~54~~ **63** credit units)

- CMPT 116.3 or CMPT 141.3 Introduction to Computer Science
- CMPT 117.3 or CMPT 145.3 Principles of Computer Science
- CMPT 214.3 Programming Principles and Practice
- CMPT 215.3 Introduction to Computer Organization and Architecture or CME 331.3 Microprocessor Based Embedded Systems
- CMPT 260.3 Mathematical Logic and Computing
- CMPT 270.3 Developing Object-Oriented Systems
- CMPT 280.3 Intermediate Data Structures and Algorithms
- CMPT 360.3 Machines and Algorithms
- CMPT 364.3 Automata and Formal Languages
- CMPT 400.3 Research Topics in Computer Science
- ~~PHIL 232.3~~ Ethics and Professional Responsibility in Computer Science or GE 449.3 Engineering in Society
- STAT 241.3 Probability Theory

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

- CMPT 317.3 Introduction to Artificial Intelligence

- [CMPT 332.3](#) Operating Systems Concepts
- [CMPT 340.3](#) Programming Language Paradigms
- [CMPT 353.3](#) Full Stack Web Programming
- [CMPT 370.3](#) Intermediate Software Engineering
- [CMPT 381.3](#) Implementation of Graphical User Interfaces

Choose **6 credit units** of CMPT courses with number 410 or higher:

Note: Courses numbered 400 - 409 may not be used to fulfill this requirement

- [CME 433.3](#) Digital Systems Architecture
- [CME 435.3](#) Verification of Digital Systems
- ~~[CME 451.3](#)~~
- [CMPT — 400-Level](#)

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

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

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

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

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

- [STAT 242.3](#) Statistical Theory and Methodology
- [STAT 245.3](#) Introduction to Statistical Methods
- [EE 216.3](#) Probability Statistics and Numerical Methods (only open to students in the College of Engineering)

Bachelor of Science Honours Software Engineering Option (B.Sc. Honours SE) - Computer Science

C3 Cognate Requirement (~~18~~–~~24~~ **12** – **15** credit units)

Junior course requirements:

Choose **9 credit units** from the following areas, such that no more than 6 credit units are from any one area:

...

Senior course requirements:

- [PHIL 232.3](#) Ethics and Professional Responsibility in Computer Science or [GE 449.3](#) Engineering in Society

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

- ~~STAT 242.3~~ Statistical Theory and Methodology
- ~~STAT 245.3~~ Introduction to Statistical Methods
- ~~EE 216.3~~ Probability Statistics and Numerical Methods (~~EE 216.3~~ Probability Statistics and Numerical Methods is only for students in the College of Engineering)

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

- ~~MATH 112.3~~ or ~~MATH 116.3~~ Calculus II
- ~~MATH 211.3~~ Numerical Analysis I
- ~~MATH 223.3~~ Calculus III for Engineers
- ~~MATH 225.3~~ Intermediate Calculus I
- ~~MATH 276.3~~ Vector Calculus I
- ~~MATH 327.3~~ Graph Theory
- ~~MATH 328.3~~ Combinatorics and Enumeration
- ~~MATH 361.3~~ Group Theory and ~~MATH 362.3~~ Rings and Fields
- ~~MATH 364.3~~ Number Theory
- ~~STAT 241.3~~ Probability Theory
- ~~STAT 344.3~~ Applied Regression Analysis
- ~~STAT 345.3~~ Design and Analysis of Experiments
- ~~STAT 348.3~~ Sampling Techniques
- ~~PHIL 243.3~~ Introduction to Symbolic Logic II

Business Science

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C4 Major Requirement (54 66 credit units)

- CMPT 116.3 or **CMPT 141.3** Introduction to Computer Science
- CMPT 117.3 or **CMPT 145.3** Principles of Computer Science
- **CMPT 214.3** Programming Principles and Practice
- **CMPT 215.3** Introduction to Computer Organization and Architecture or **CME 331.3** Microprocessor Based Embedded Systems
- **CMPT 260.3** Mathematical Logic and Computing
- **CMPT 270.3** Developing Object-Oriented Systems
- **CMPT 280.3** Intermediate Data Structures and Algorithms
- **CMPT 332.3** Operating Systems Concepts
- **CMPT 340.3** Programming Language Paradigms
- **CMPT 353.3** Full Stack Web Programming
- **CMPT 360.3** Machines and Algorithms
- **CMPT 370.3** Intermediate Software Engineering
- **CMPT 371.3** Software Management
- **CMPT 470.3** Advanced Software Engineering
- **CMPT 481.3** Human Computer Interaction
- ~~PHIL 232.3~~ Ethics and Professional Responsibility in Computer Science or ~~GE 449.3~~ Engineering in Society
- **STAT 241.3** Probability Theory

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

Note: For those students not in the Professional Internship Option, CMPT 405 and 3 additional credit units from the courses listed below are required. For those students in the Professional Internship Option, 6 additional credit units from the courses listed below are required.

- CMPT — 300-Level, 400-Level
- ~~CMPT 451.3 Modelling and Algorithms for Biological Systems~~
- ~~up to~~ **at most** 2 courses from CME 332.3 Real Time Computing, CME 341.3 Logic Design Using FPGAs, CME 342.3 Introduction to Digital Integrated Circuits and System on Chip, CME 433.3 Digital Systems Architecture, CME 435.3 Verification of Digital Systems, ~~CME 451.3~~

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

- MATH 110.3 Calculus I
- MATH 133.4 Engineering Mathematics I
- MATH 176.3 Advanced Calculus I

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

- STAT 242.3 Statistical Theory and Methodology
- STAT 245.3 Introduction to Statistical Methods
- EE 216.3 Probability Statistics and Numerical Methods (only open to students in the College of Engineering)

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

- ~~MATH 112.3~~ or MATH 116.3 Calculus II
- MATH 211.3 Numerical Analysis I
- MATH 223.3 Calculus III for Engineers
- MATH 225.3 Intermediate Calculus I
- MATH 276.3 Vector Calculus I
- MATH 327.3 Graph Theory
- MATH 328.3 Combinatorics and Enumeration
- MATH 361.3 Group Theory and MATH 362.3 Rings and Fields
- MATH 364.3 Number Theory
- STAT 344.3 Applied Regression Analysis
- STAT 345.3 Design and Analysis of Experiments
- STAT 348.3 Sampling Techniques
- PHIL 243.3 Introduction to Symbolic Logic II

Bachelor of Science Four-year (B.Sc. Four-year) - Computer Science C1 College Requirement (15 credit units)

English Language Writing

- *No change*

Indigenous Learning

- *No change*

Quantitative Reasoning

- **MATH 163.3** Introduction to Mathematical Reasoning
- **MATH 164.3** Introduction to Linear Algebra

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

- ~~**MATH 110.3** Calculus I~~
- ~~**MATH 176.3** Advanced Calculus I~~

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

- ~~**MATH 164.3** Introduction to Linear Algebra (formerly MATH 264.3)~~
- ~~**MATH 266.3** Linear Algebra II~~

C3 Cognate Requirement (~~18–21~~ 12 – 15 credit units)

Junior course requirements:

Choose **9 credit units** from the following areas, such that no more than 6 credit units are from any one area:

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Senior course requirements:

- **PHIL 232.3** Ethics and Professional Responsibility in Computer Science or GE 449.3 Engineering in Society

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

- ~~**STAT 242.3** Statistical Theory and Methodology~~
- ~~**STAT 245.3** Introduction to Statistical Methods~~
- ~~**EE 216.3** Probability Statistics and Numerical Methods (~~EE 216.3~~ Probability Statistics and Numerical Methods is only for students in the College of Engineering)~~

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

- ~~MATH 112.3~~ or ~~**MATH 116.3**~~ Calculus II
- ~~**MATH 211.3**~~ Numerical Analysis I
- ~~**MATH 223.3**~~ Calculus III for Engineers
- ~~**MATH 225.3**~~ Intermediate Calculus I
- ~~**MATH 276.3**~~ Vector Calculus I
- ~~**MATH 327.3**~~ Graph Theory
- ~~**MATH 328.3**~~ Combinatorics and Enumeration
- ~~**MATH 361.3**~~ Group Theory and ~~**MATH 362.3**~~ Rings and Fields
- ~~**MATH 364.3**~~ Number Theory
- ~~**STAT 241.3**~~ Probability Theory
- ~~**STAT 344.3**~~ Applied Regression Analysis
- ~~**STAT 345.3**~~ Design and Analysis of Experiments

- ~~STAT 348.3 Sampling Techniques~~
- ~~PHIL 243.3 Introduction to Symbolic Logic II~~

Business Science

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C4 Major Requirement (54 60 credit units)

- CMPT 116.3 or **CMPT 141.3** Introduction to Computer Science
- CMPT 117.3 or **CMPT 145.3** Principles of Computer Science
- **CMPT 214.3** Programming Principles and Practice
- **CMPT 215.3** Introduction to Computer Organization and Architecture or **CME 331.3** Microprocessor Based Embedded Systems
- **CMPT 260.3** Mathematical Logic and Computing
- **CMPT 270.3** Developing Object-Oriented Systems
- **CMPT 280.3** Intermediate Data Structures and Algorithms
- ~~PHIL 232.3 Ethics and Professional Responsibility in Computer Science or GE 449.3 Engineering in Society~~

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

- **CMPT 317.3** Introduction to Artificial Intelligence
- **CMPT 332.3** Operating Systems Concepts
- **CMPT 340.3** Programming Language Paradigms
- **CMPT 353.3** Full Stack Web Programming
- **CMPT 360.3** Machines and Algorithms
- **CMPT 370.3** Intermediate Software Engineering
- **CMPT 381.3** Implementation of Graphical User Interfaces

Choose **6 credit units** of CMPT courses with number 410 or higher:

Note: Courses numbered 400 - 409 may not be used to fulfill this requirement

- **CMPT — 400-Level**

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

- ~~CME 332.3 Real Time Computing~~
- ~~CME 334.3 Network Architecture and Protocols~~
- ~~CME 341.3 Logic Design Using FPGAs~~
- ~~CME 342.3 Introduction to Digital Integrated Circuits and System on Chip~~
- ~~CME 433.3 Digital Systems Architecture~~
- ~~CME 435.3 Verification of Digital Systems~~
- ~~CMPT 451.3 Modelling and Algorithms for Biological Systems~~
- **CMPT — 300-Level, 400-Level**
- **at most 2 courses from CME 332.3 Real Time Computing, CME 341.3 Logic Design Using FPGAs, CME 342.3 Introduction to Digital Integrated Circuits and System on Chip, CME 433.3 Digital Systems Architecture, CME 435.3 Verification of Digital Systems**

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

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

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

- [STAT 242.3](#) Statistical Theory and Methodology
- [STAT 245.3](#) Introduction to Statistical Methods
- [EE 216.3](#) Probability Statistics and Numerical Methods (only open to students in the College of Engineering)

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

- ~~MATH 112.3~~ or [MATH 116.3](#) Calculus II or [MATH 134.3](#) Engineering Mathematics I or [MATH 177.3](#) Advanced Calculus II
- [MATH 211.3](#) Numerical Analysis I
- [MATH 223.3](#) Calculus III for Engineers
- [MATH 225.3](#) Intermediate Calculus I
- [MATH 276.3](#) Vector Calculus I
- [MATH 327.3](#) Graph Theory
- [MATH 328.3](#) Combinatorics and Enumeration
- [MATH 361.3](#) Group Theory and [MATH 362.3](#) Rings and Fields
- [MATH 364.3](#) Number Theory
- [STAT 241.3](#) Probability Theory
- [STAT 344.3](#) Applied Regression Analysis
- [STAT 345.3](#) Design and Analysis of Experiments
- [STAT 348.3](#) Sampling Techniques
- [PHIL 243.3](#) Introduction to Symbolic Logic II

Bachelor of Science Three-year (B.Sc. Three-year) - Computer Science

C4 Major Requirement (**30 36** credit units)

- CMPT 116.3 or [CMPT 141.3](#) Introduction to Computer Science
- CMPT 117.3 or [CMPT 145.3](#) Principles of Computer Science
- [CMPT 214.3](#) Programming Principles and Practice
- [CMPT 215.3](#) Introduction to Computer Organization and Architecture or [CME 331.3](#) Microprocessor Based Embedded Systems
- [CMPT 260.3](#) Mathematical Logic and Computing
- [CMPT 270.3](#) Developing Object-Oriented Systems
- [CMPT 280.3](#) Intermediate Data Structures and Algorithms

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

- ~~[CMPT 451.3](#) Modelling and Algorithms for Biological Systems~~
- ~~[CMPT — 300-Level, 400-Level](#)~~
- ~~up to at most 1 course from~~ [CME 332.3](#) Real Time Computing , [CME 334.3](#) Network Architecture and Protocols, [CME 341.3](#) Logic Design Using FPGAs , [CME 342.3](#) Introduction to Digital Integrated Circuits and System on Chip , [CME 433.3](#) Digital Systems Architecture , [CME 435.3](#) Verification of Digital Systems , ~~[CME 334.3](#) Network Architecture and Protocols~~

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

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

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

- [STAT 242.3](#) Statistical Theory and Methodology
- [STAT 245.3](#) Introduction to Statistical Methods
- [EE 216.3](#) Probability Statistics and Numerical Methods (only open to students in the College of Engineering)

C5 Electives Requirement (**24 21** credit units)

Arts and Science courses, or those from other colleges that have been approved for Arts and Science credit, to complete the requirements for the 90 credit unit Three-year program, of which at least 42 must be at the 200-level or higher-level.

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

PHIL 232 or GE 449 is recommended.

Rationale:

2. MATH 133.4 (Engineering Mathematics I) and MATH 134.3 (Engineering Mathematics II) are accepted in Arts & Science programs as equivalent to MATH 110.3/176.3 and MATH 116.3/177.3, respectively, so adding them here just makes that apparent.
- ...
5. Moving PHIL 232 and GE 449 out of the C4 Major Requirement will exclude it from being included in the Major Average.

The moves of STAT 241 and PHIL 232/GE 449 also ensure that these courses appear in the same requirements as they do in the Applied Computing programs (where used), which helps students compare program requirements/transfer.

Bachelor of Science Double Honours in Computer Science

Remove MATH 266 as an alternative to MATH 164; move MATH 110/176 to C3 Requirement (and add [MATH 133.4](#) as a third, equivalent option), and add MATH 163 to the C1 requirement.

Bachelor of Science Double Honours - Computer Science - Major 1

C3 Cognate Requirement (**9 12** credit units)

Junior course requirements:

Choose **9 credit units** from the following areas, such that no more than 6 credit units are from any one area:

Biology

Chemistry

Earth Science

Physics & Astronomy

Additional course requirements:

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

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

C5 Electives Requirement (~~45~~ **42** credit units)

Major 2 (36-42 credit units)

- Double Honours requirements in second discipline

Open Electives (~~3-9~~ **0-6** credit units)

Arts and Science courses, or those courses from other Colleges which have been approved for Arts and Science credit, to complete the requirements for 120 credit unit Double Honours program, of which at least 66 must be at the 200-level or higher.

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

PHIL 232 or [GE 449](#) is recommended.

Rationale: MATH 164 is now the prerequisite for MATH 266, so there is no longer any need to list them both. MATH 163 teaches students aspects of mathematical thinking that are also used in Computer Science. MATH 110/[133](#)/[176](#) are retained as a C3 courses, to fulfill prerequisite requirements for courses included in the program and they cannot be moved to the C4 requirement due to credit unit limits for Double Honours programs.

College of Graduate and Postdoctoral Studies, University Course Challenge – January 2023

The following new courses and curricular changes have been approved by the College of Graduate and Postdoctoral Studies and are now being submitted to University Course Challenge for approval:

Contact: Melissa Kyrejtó (melissa.kyrejto@usask.ca)

Anatomy, Physiology and Pharmacology

Course Deletions

ACB 830.3: Advanced Topics in Cell and Molecular Biology

Recent developments in cell and molecular biology research will be examined. Students will present and evaluate selected publications from current literature. Among the topics of interest are: signal transduction, development and differentiation, apoptosis, gene expression/transcription, cell and organelle structure, and DNA dynamics and chromosome structures.

Weekly hours: 4 Seminar/Discussion hours

Prerequisite(s): At least one senior level course in biochemistry, genetics or cell biology; or permission from the instructor.

ACB 898.3: Special Topics

Study in selected areas of morphological sciences may be undertaken with the consent of the faculty of Anatomy and Cell Biology. Involves reading assignments, lectures, and tutorials. Students will be required to critically analyse the scientific literature, participate in discussion, and give oral and/or written presentations.

Permission of the department required

ACB 899.6: Special Topics

Offered occasionally in special situations. Students interested in this course should contact the department of Anatomy and Cell Biology for more information.

ACB 990.3: Scientific Communication

Graduate students in the Anatomy and Cell Biology program will receive practical training in written and oral scientific communication. Topics include scientific writing technique and style, effective oral communication, electronic research tools and electronic presentation tools.

Graduate students will also attend a student-run seminar series, and make one presentation in that series each year they are enrolled in the program.

Prerequisite(s): Open only to graduate students in the Department of Anatomy and Cell Biology.

ACB 994.0: Research – Thesis

Students enrolled in the M.Sc. program must register for this course.

ACB 996.0: Research – Dissertation

Students enrolled in the Ph.D. program must register for this course.

PCOL 850.6: Graduate Pharmacology

Deals with the pharmacokinetics, pharmacodynamics, therapeutic uses and toxicity of drugs. Advanced pharmacological concepts, principles and methods are presented and discussed in weekly research seminars.

Weekly hours: 3 Lecture hours and 1 Seminar/Discussion hours

Prerequisite(s): HSC 208 and BIOC 211, or their equivalents.

PCOL 898.3: Special Topics

Work in specific areas of pharmacology may be undertaken by graduate students with the consent of the Graduate Chair of the Department. The student will work directly with a selected supervisor (i.e., a faculty member with expertise in the area selected). An Advisory Committee may also be established (optional) to include resource faculty, also with expertise in the area of interest. The student will be assigned topics to be researched and will be required to prepare reports, in the form of quality scientific reviews. The supervisor may also choose to supplement assigned topics with a series of laboratory exercises.

Weekly hours: 2 Reading hours and 2 Practicum/Lab hours and 2 Tutorial hours

PCOL 899.3: Special Topics

Work in selected areas of pharmacology may be undertaken by graduate students with the consent of the Graduate Chair of the Department. The student will work directly with a selected supervisor (i.e., a faculty member with expertise in the area selected). An Advisory Committee may also be established (optional) to include resource faculty, also with expertise in the area of interest. The student will be assigned topics to be researched and will be required to prepare reports, in the form of quality scientific reviews. The supervisor may also choose to supplement assigned topics with a series of laboratory exercises.

Weekly hours: 2 Reading hours and 2 Practicum/Lab hours and 2 Tutorial hours

PCOL 990.0: Seminar

Graduate students in the Department of Pharmacology must register for this course each year of their graduate program. The students are required to attend, and to take part in departmental seminars throughout their program.

Weekly hours: 1 Seminar/Discussion hours

PCOL 994.0: Research – Thesis

Students writing a Master's thesis in the Department of Pharmacology must register for this course in each year of their program.

Prerequisite(s): Students must be registered in the College of Graduate Studies and Research M.Sc. program.

PCOL 996.0: Research – Dissertation

Students writing a Ph.D thesis in the Department of Pharmacology must register for this course

in each year of their program.

Prerequisite(s): Students must be registered in the College of Graduate Studies and Research Ph.D. program.

PHSI 860.3: Advanced Seminar in Neuroscience

The course offers an in-depth examination of essential topics in neuroscience. Areas selected may range from fundamental neurobiological processes to neuropathophysiology and the clinical neurosciences and may vary in different years. Students will undertake an advanced study of original research papers and techniques significant to the field. Discussions will emphasize current concepts and the student will gain a thorough understanding of the selected topic through critical review and analysis.

Permission of the Department is required.

PHSI 898.3: Special Topics

Work in selected areas of physiology may be undertaken by advanced students with the consent of the department. This work may consist of essays, readings, and reports on assigned topics and/or a series of laboratory exercises.

PHSI 899.3: Special Topics

Offered occasionally in special situations. Students interested in these courses should contact the department for more information.

PHSI 990.3: Seminar

Throughout their program, graduate students in Physiology are required to attend department seminars and to participate in the presentation and discussion of papers in the journal club.

PHSI 994.0: Research – Thesis

Students writing a Master's thesis must register for this course.

PHSI 996.0: Research – Dissertation

Students writing a Ph.D. thesis must register for this course.

Rationale: APC granted final approval for the terminations of the individual graduate programs in ACB, PHSI, PCOL on December 18, 2019. The legacy graduate programs of Physiology, Pharmacology, and Anatomy and Cell Biology ceased admitting new students on April 30, 2020. As all graduate courses are now offered through the merged Anatomy, Physiology, and Pharmacology Graduate Program, the legacy courses should be closed.

Approved by CGPS' Graduate Programs Committee on January 10th, 2023

Community and Population Health Sciences

Minor Program Revision

Transfer from Master's to Ph.D.

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Degree Requirements

Students must maintain continuous registration in the 996 course.

- GPS 960.0
- GPS 961.0, if research involves human subjects
- GPS 962.0, if research involves animal subjects
- minimum of 21 credit units, depending on previous course work (defined as course work that may have been taken in previous Master's level program), including:
 - prior to transfer, a minimum 9 credit units total from MSc required courses,
 - the remaining credit units for the PhD including:
 - CHEP 817.3
 - an advanced research methods course, i.e. quantitative (e.g. CHEP 801, 806, 808 or equivalent) or qualitative (e.g. CHEP 818 or equivalent).
- CHEP 990.0
- CHEP 996.0
- qualifying examination prior to transfer
- comprehensive examination
- oral thesis defense
- Residency Requirement: Ph.D. students are required to live locally until core program requirements have been met, including thesis committee approval of pre-proposal, completion of required courses, and completion of the comprehensive exam.

Deleted: CHEP 800.3, CHEP 802.3, CHEP 813.3, CHEP 811.3

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Deleted: *By advanced course we mean a methods course that is not typically taken to meet the M.Sc. degree requirement (e.g. CHEP 805). Consult with Graduate Program Chair if there is a question about suitability of a course to meet this requirement.¶

Doctor of Philosophy (Ph.D.) - Direct Entry

...

Degree Requirements

Students must maintain continuous registration in the 996 course.

- GPS 960.0
- GPS 961.0, if research involves human subjects
- GPS 962.0, if research involves animal subjects
- At least 9 credit units of course work at the graduate level must be successfully completed in the first year of the program.
- Within the first year of the program, successfully complete a Ph.D. Qualifying Examination that is at least as rigorous as the defence for a Master's thesis in the program area.
- Write and successfully defend a thesis based on original investigation.
- comprehensive examination
- residency requirement: Ph.D. students are required to live locally until core program requirements have been met, including thesis committee approval of pre-proposal, completion of required courses, and completion of the comprehensive exam.

A minimum of 21 credit units including:

- 9 credit units from the Community and Population Health Sciences MSc program
- CHEP 817.3
- CHEP 990.0
- CHEP 996.0
- An advanced research methods course, i.e. quantitative (e.g. CHEP 801, 806, 808 or equivalent) or qualitative (CHEP 818 or equivalent). Approval by Graduate Program Chair is required for other research course selections.
- 6 credit units of electives chosen to support the student's research are approved by the student's advisory committee

Deleted: <#>CHEP 800.3¶
 <#>CHEP 802.3¶
 <#>CHEP 805.3 or a qualitative methods course (ERES 845.3, NURS 893.3, PSY 809.3, JSGS 851.3 or equivalent)¶
 <#>CHEP 811.3¶
 <#>CHEP 813.3¶

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Rationale: Not listing specific courses allows students with earlier MSc courses to transfer if appropriate; this change also allows selection of MSc courses which are appropriate to the student's background and area of research. For Master's students, CHEP 822.2 and 824.2 will prepare students for CHEP 818.3. Students can continue to request permission based on prior coursework or experience with qualitative methods.

Deleted: *An advanced course refers to a methods course that is not typically taken to meet the M.Sc. degree requirement (e.g. CHEP 805). Consult with Graduate Program Chair if there is a question about suitability of a course to meet this requirement.¶

Approved by CGPS' Graduate Programs Committee on January 10th, 2023

Economics

Minor Program Revision

Postgraduate Diploma (P.G.D.)

...

Degree Requirements

- GPS 960.0
- GPS 961.0, if research involves human subjects
- GPS 962.0, if research involves animal subjects
- a minimum of 30 credit units, at least 18 of which are at the 800-level in the same field of study.

Rationale: The additional qualification for degree requirements aligns with our PGD program description with current CGPS PGD program policies from the 2022-23 university catalogue. This also reduces the chances that a student will misunderstand degree requirements.

Co-operative Option in Economics

Admission Requirements

The Co-operative Option in Economics is open to students in both the thesis- and project-based Master of Arts in Economics programs.

Degree Requirements

Students are eligible for a co-op placement following successful completion of GPS 960.0, and a minimum of 15 credit units toward the M.A. in Economics, including ECON 800.3, ECON 801.3, and ECON 808.3. Placements are to be four months (1 term) in duration, and a student may complete up to three co-op internship placements.

- ECON 987.0

Rationale: The update brings clarity to the required prerequisites to take ECON 987, the only course taken for the Co-op designation.

Approved by CGPS' Graduate Programs Committee on January 10th, 2023

Environment and Sustainability

Deleted: course work requirements

Minor Program Revision

Graduate Certificate in Sustainability Solutions

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Certificate Requirements (10 credit units)

The certificate can be taken as a stand-alone program or the certificate can be applied to the completion of the Master of Sustainability (M.Ss).

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- ENVS 818.1 (This course is required for all the graduate certificates. Students that have successfully completed this course previously will not be required to repeat it.)

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A minimum of **9 credit units**, comprised of the following:

Deleted: including

- ENVS 850.1
- ENVS 851.2
- ENVS 853.3
- ENVS 807.3

Deleted: 805.3

Rationale: ENVS 805 will no longer be offered for the Master of Sustainability (MSs) students. ENVS 807 will continue to be a required course for the MSs program. ENVS 807 focuses on sustainability theory and practice, which makes it an appropriate fit for a certificate on Sustainability Solutions and would allow students to ladder into the MSs from the certificate.

Approved by CGPS' Graduate Programs Committee on January 10th, 2023

Indigenous Land-Based Education

Minor Program Revision

Master of Indigenous Land-Based Education (M.I.L.B.E.)

...

For more [information](#) on language proficiency requirements, see the College of Graduate and Postdoctoral Studies for **Academic Policies**.

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Degree Requirements (30 credit units)

- GPS 960.0
- GPS 961.0
- GPS 962.0

- EFDT 990.0
- EFDT 479.3
- ERES 810.3
- EFDT 844.3
- EFDT 870.3
- EFDT 854.3
- EFDT 845.3
- EFDT [825.3](#)
- EFDT 854.3
- ILBE [992.3](#)
- ILBE 869.3

Deleted: 817.3

Deleted: 991.3

Rationale: The Master of Indigenous Land-Based Education is a new program that the first cohort is currently completing. Through this iteration, one complication was made evident: while the program is designed as a full-time academic program, the number of courses per term varies and funding agencies consider the number of courses each term, not the program descriptor in their decision-making processes. The capstone course, while the culminating project in the program, is based on a portfolio developed over the seven terms of the program. Recognizing these two factors led us to change the capstone project from ILBE 991.3 in the last term to ILBE 992.3 with continuous registration. In addition, the required course in Climate Change Education has been regularized as EFDT 825.3; formerly it was a special topic under the Trends and Issues umbrella.

New Course Proposal

ILBE 992.3: Indigenous Land-Based Education Capstone Course

Students will demonstrate their scholarship in Indigenous land-based education through their capstone projects. Students will be continuously enrolled in this course through the seven terms of the program, creating a portfolio which may include multimedia presentations, critical reflections, professional development, workshops for peers, and programs developed during and through their courses in this program. The capstone project will be a synthesis of this portfolio. The components of the capstone project will be presented during the final term of the program.

Restriction: Permission required. Must be enrolled in the Master of Indigenous Land-Based

Education.

Note: Students may receive credit for one of ILBE 992 or ILBE 991.

Instructor: Dr. Alex Wilson

Rationale: Students are required to conduct a community Capstone project over the duration of their master's program. The course provides a way to assess the project while also providing an opportunity for a culminating experience on the land.

Approved by CGPS' Graduate Programs Committee on January 10th, 2023

Course Deletion

ILBE 991.3 Indigenous Land Based Capstone

Students will demonstrate their scholarship in Indigenous land-based education through their capstone projects. The capstone projects draw on academic and professional work developed throughout their program. The students will draw on their portfolios which may include multimedia presentations, critical reflections, professional development, workshops for peers, programs developed, during this and other courses.

Rationale: Students who began the MILBE program prior to 2023-24 will complete ILBE 991. Once these students have completed the program, this course will be closed. All students entering the MILBE in 2023-24 and after will complete ILBE 992.3 instead of ILBE 991.3.

Music

Minor Program Revision

Master of Arts (M.A.) (Musicology) - Thesis-based

...

Degree Requirements

Students must maintain continuous registration in MUS 994.

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

A minimum of 15 credit units, including the following:

- 3 credit units from MUS 853.3 or MUS 854.3
- 3 credit units from MUS 822.3, MUS 845.3, MUS 851.3, or MUS 855.3
- 6 credit units from MUS 821.3, MUS 853.3, or MUS 854.3, or MUS 898.3

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- MUAP 833.3 with permission of the department, or an alternate course approved by the student's advisory committee
- MUS 994.0
- MUS 990.0
- completion of a thesis (with thesis defence)
- participation in professional activities

Deleted: <#>MUS 811.3 (with permission), or an alternate approved course ¶

Deleted: comprehensive examination

Master of Music (M.Mus.) (Composition or Music Theory) - Thesis-based

This is a thesis-based program.

...

Degree Requirements - Music Theory

Students must maintain continuous registration in MUS 994.

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

A minimum of 15 credit units, including:

- MUS 822.3
- MUS 990.0
- MUS 994.0
- 3 credit units from MUS 821.3, MUS 853.3 or MUS 854.3
- 6 credit units from the following: MUS 845.3, MUS 851.3, MUS 855.3, MUS 898.3, or MUS 899.6

- MUAP 833.3 with permission of the department, or an alternative course approved by the student's advisory committee.
- completion of a thesis (with a thesis defence)
- participation in professional activities

Deleted: <#>MUS 811.3 (with permission), or an alternate approved course ¶

Deleted: <#>comprehensive examination

Rationale: The Department of Music recently created 2 new courses (these courses have been approved last year) MUAP 833 and MUAP 835 (Applied Lessons for Non-performance music

majors I and II) to provide an opportunity for graduate students pursuing a graduate degree in Theory, Musicology, or Music Education to continue taking private lessons on a specific instrument they studied previously. Prior to these new courses, students could enroll in MUS 811.3 which is an equivalent course, but for performance majors. The new course number is used to differentiate the major of the students as well as the requirements attached to the applied performance seminar/applied lessons. For the Musicology degree, MUS 811.3 is being replaced by MUAP 833.3. The completion of a comprehensive examination is the thesis – that is now made clear.

Approved by CGPS' Graduate Programs Committee on January 10th, 2023

Nursing

Course Modification

NURS 810.3: History of Health Systems Public Health and Nursing in Canada

Current Note: None

Proposed Note: This course is a hybrid course with NURS 410, and this course cannot be taken for credit after previously taking NURS 410.

Mutually exclusive to (and cross-listed with): NURS 410

Approved by CGPS' Graduate Programs Committee on January 10th, 2023

Scholarship of Teaching and Learning

Minor Program Revision

Master of the Scholarship of Teaching and Learning (M.SoTL.)

Students define a multi-study research program in their SoTL 990 Research Seminar, and then use research classes to prepare to prepare three studies or essential components of studies. Two or three studies will be conducted during the program. A thesis experience requires students to carry out a research project and synthesize their studies into a single, well-articulated document, share it publicly, and use feedback to prepare it for publication.

Admission Requirements

- a cumulative weighted average of at least a 70% (U of S grade system equivalent) in the last two years of study (i.e. 60 credit units)
- successful completion of a four-year bachelor's degree, or equivalent, from a recognized college or university
- teaching experience or equivalent experience in a non-formal or training environment

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- Language Proficiency Requirements: Proof of English proficiency may be required for international applicants and for applicants whose first language is not English.

For more information on language proficiency requirements, see the College of Graduate and Postdoctoral Studies [Academic Policies](#) for more information.

Degree Requirements

Required Courses (15 credit units)

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Students must complete the following required courses:

Note: Students must maintain continuous registration in the 994 course.

- GPS 960.0
- GPS 961.0, if research involves human subjects
- GPS 962.0, if research involves animal subjects
- ERES 800.3
- SOTL 801.3
- SOTL 802.3
- SOTL 803.3
- SOTL 804.3
- SOTL 990.0
- SOTL 994.0

Restricted Electives (6 credit units)

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- 6 credit units of electives as approved by the Director
- _____

Deleted: Students must complete 9 credit units of restricted electives, as follows:¶
 Three courses selected from the following list will complement the program of research, with the intention of conducting a SOTL research project from the student's research program – an outcome of each course is a completed proposal for a study to be completed as part of the student's program.¶
 EADM 816.3¶
 EADM 839.3¶
 ECUR 805.3¶
 ECUR 809.3¶
 ECUR 844.3¶
 EFDT 845.3¶
 ERES 810.3¶
 ERES 820.3¶
 ERES 840.3¶
 ERES 841.3¶
 ERES 845.3¶
 SOTL 804.3

Course Modification

SOTL 804.3: Research Experience in the Scholarship of Teaching and Learning

Current description: The purpose of this course is to apply the theory and skills of SoTL through the successful completion and publication of a research study in SoTL conducted in the student's own classroom or organization. The study will include a research proposal, ethics approval, review, and final preparation suitable for publication.

Proposed description: The purpose of this course is to apply the theory and skills of SoTL through the development of a SoTL research proposal that can be conducted in the student's

own context. The proposal will include an ethics application for the study approved by the instructor. By the end of the course, students will write an article appropriate for publication and develop a poster presentation based on their SoTL research proposal.

Rationale: The course description and outcomes related to the ethics application, completion of the research study, and publication are not realistic in a four-month course. SoTL 804 will be the final course in the SoTL Certificate Program and last course student in the MSoTL take before beginning their thesis work. The revisions to this course, will allow students to sufficiently prepare to take their research proposal and start their SoTL research project at their home institution or to use it as a continuing step towards the development of their thesis project.

Approved by CGPS' Graduate Programs Committee on January 10th, 2023

Small Animal Clinical Sciences

Minor Program Revision

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

...

Degree Requirements

Students must maintain registration in VSAC 994.0

- GPS 960.0
- GPS 961.0, if research involves human subjects
- GPS 962.0, if research involves animal subjects
- VSAC 990.0
- VSAC 994.0
- a minimum of 9 credit units of graduate level course work

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Doctor of Philosophy (Ph.D.) – Non-Direct

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Degree Requirements

Students must maintain continuous registration in VSAC 996.0.

- GPS 960.0

- GPS 961.0, if research involves human subjects
- GPS 962.0, if research involves animal subjects
- VSAC 990.0
- VSAC 996.0
- a minimum of 3 credit units of graduate level work beyond the M.Sc. requirements

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Doctor of Philosophy (Ph.D.) - Direct Entry

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Degree Requirements

Students must maintain continuous registration in 996 course.

- At least 6 credit units of course work at the graduate level must be successfully completed in the first year of the program.
- Within the first year of the program, successfully complete a Ph.D. Qualifying Examination that is at least as rigorous as the defence for a Master's thesis in the program area
- GPS 960.0
- GPS 961.0, if research involves human subjects
- GPS 962.0, if research involves animal subjects
- VSAC 990.0
- VSAC 996.0 comprehensive examination
- Write and successfully defend a thesis based on original investigation.
- a minimum of 12 credit units at the 800-level

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Transfer from Master's to Ph.D.

Students must maintain continuous registration in the 996 course.

Degree Requirements

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

- GPS 962.0, if research involves animal subjects
- VSAC 990.0
- VSAC 996.0
- a minimum of 12 credit units at the 800-level
- comprehensive exam
- thesis defence

Deleted: 18

Rationale: The department has not had PhD students prior to 2020 and are currently working on best policy for this program. We recognize that obtaining a total of 18 credit units requires significant time and effort in coursework for a student who has is primarily focused on research. Additionally, appropriate courses that benefit the student and their area of focus are lacking in many cases.

Approved by CGPS' Graduate Programs Committee on January 10th, 2023

Toxicology

New Course Proposal

TOX 870.3: Environmental Effects Assessment and Monitoring

This course will introduce students to key principles for designing robust environmental effects studies from industrial activities on the landscape, and the regulatory frameworks requiring these programs. It will cover selection of appropriate ecological effects and measurable parameters (endpoints) that can be used for pre-construction environmental assessments in regulatory approval applications, post-construction environmental effects monitoring programs, and post-project restoration.

Instructor:

Prerequisite: Undergraduate degree in Biology, Toxicology, Environmental Sciences or other related disciplines.

Rationale: Students graduating from Toxicology, Biology and Environmental science programs are trained well in hypothesis generation and testing, creatively exploring new techniques, instruments, and approaches, and writing journal article-style outputs. But they lack training in the practical application of those skills often demanded in environmental consulting and government regulatory agencies where they tend to be employed post-graduation. They are often unaware of the broader legal and policy contexts of such work. This course was designed to allow students a smoother transition into key positions post-graduation by introducing them to processes in environmental assessment and monitoring that they will encounter in the workforce.

Items For Information

The following new courses and curricular changes have been approved by the College of Graduate and Postdoctoral Studies and are now being submitted to University Course Challenge for information.

Course modification(s):

CHEP 822.2: Community and Population Health Research Methods

Current title: Community and Population Health Research Methods

Proposed title: Introduction to Community and Population Health Research Methods

Rationale: Correcting incorrect title.

CHEP 818.3: Advanced Qualitative Health Research Methods in Population and Public Health

Current prerequisite: One of the following courses: ERES 845, PUBH 846, JSGS 851, NURS 893, PSY 809, or permission of the instructor.

Proposed prerequisite: CHEP 822.2 and CHEP 824.2 or permission of the instructor.

Rationale: Prerequisites are being updated to reflect program changes and course relabeling.

NURS 881.3: Pathophysiology- Pharmacotherapy for Advanced Nursing Practice I

Current restriction: Admission to the Nurse Practitioner graduate program.

Proposed restriction: Admission to the Master of Nursing Primary Health Care Nurse Practitioner (MN-NP) or Post Graduate Nurse Practitioner Certificate (PGNPC) program or the Foundations for RN Specialty Practice Certificate.

NURS 883.3: Theory for Advanced Practice Nursing Roles and Primary Health Care

Current restriction: Admission to the Nurse Practitioner graduate program.

Proposed restriction: Admission to the Master of Nursing Primary Health Care Nurse Practitioner (MN-NP) or Post Graduate Nurse Practitioner Certificate (PGNPC) program or the Foundations for RN Specialty Practice Certificate.

Rationale: The change will standardize the language for all year 1, term 1 courses. As well, the new wording better reflects current practice. Students admitted into the Master of Nursing Primary Health Care Nurse Practitioner (MN-NP) or Post Graduate Nurse Practitioner Certificate (PGNPC) program must take NURS 881, 883, and 884.

PHAR 832.3: Drug Design

Current title: Drug Design

Proposed title: Drug Discovery and Development

PUBH 806.3: Public Health Pathology

Current title: Public Health Pathology

Proposed title: Public Health Pathobiology

College of Law – January 2023 University Course Challenge Submission

The following items have been approved by the College of Law and are being submitted to University Course Challenge for final approval:

New Courses:

LAW 349.3 Housing, Homelessness, and the Law 1/2(3S)

This 3-credit seminar critically examines issues relating to housing, homelessness, and the law. Housing is a fundamental human need, but affordable, secure housing remains elusive for many. International, federal, provincial, and municipal laws and policies shape housing realities and experiences, and housing also engages multiple substantive areas of law including contract, property, criminal, administrative, human rights, and family law. The seminar introduces students to the context and policy debates around housing and homelessness in Canada, and examines issues relating to housing and homelessness through multiple legal and interdisciplinary lenses. Seminar topics include Indigenous peoples and housing, the international human right to housing, Canada's federal housing legislation, approaches to the regulation of homelessness, and litigation about homelessness and the right to housing. We will also study residential tenancies law and procedures, with a special focus on evictions and access to justice in administrative housing law tribunals. Finally, the seminar explores policy and law reform proposals for the future of housing justice in Canada.

Prerequisite(s): Students must have completed Year 1 of the J.D. program.

Rationale: The College of Law currently has no course that focusses specifically on legal issues relating to housing and homelessness. Housing is a human right and a fundamental human need, but affordable, secure housing remains elusive for many, and homelessness remains a major social issue in Canada. International, federal, provincial, and municipal laws and policies shape housing realities and experiences, and housing also engages multiple substantive areas of law including contract, property, criminal, administrative, human rights, and family law. This seminar provides students with an in-depth overview of how law intersects with housing and provides students opportunities to develop critical perspectives about law and legal practice in this area. The course was offered as a special topics class and must be regularized to continue the offering.

LAW 468.3 Advanced Family Law 1/2(3S)

This seminar course allows those students who have taken one or more classes in Family Law to expand upon and research many current trends and themes relating to law and the family. Critical evaluation of the many issues in family law will be directed by the instructor and supplemented with guest lecturers from the legal and other professional disciplines. Students will be required to write a major paper with an expectation that they will present their research to the class.

Prerequisite(s): LAW 372.3 Family Law is the formal prerequisite. At the discretion of the college, preference may be given to those students who have already taken Family Law 2 or who are currently enrolled in Family Law 2.

Rationale: Family Law 1 and Family Law 2 presently offered by the College are two popular courses which are co-related. Family Law 1 has historically large classes. In 2020 for instance the total enrollment was 96 students. Both courses (1 and 2) cover separate and distinct areas of family law, with

Family Law 1 covering certain foundational aspects that inform this area of the law. Advanced Family Law was introduced on a trial basis several years ago. Prior to its introduction, the College had not offered a focused advanced course in family law. While courses such as Children and the Law may cover matters that are clearly family-related, no course presently allows students to “drill deep” into topics that are considered core family law matters.

LAW 348.3 Advanced Legal Research & Writing 1/2(3L)

Legal research is fundamental to providing legal analysis and advice. This advanced legal research course goes beyond what students have learned in their introductory legal research and writing course, thus allowing for the exploration of more advanced legal research skills. While it maintains the focus on practical legal research skills for purposes of providing professional support for client decision-making, it adds new approaches and skills. Thus, there may be a selected focus on such matters as development of research plans for more complex problems, engagement with interpretation statutes, comparative/foreign legal research, international law research, artificial intelligence and legal research, communication to clients, formulation of predictions with an awareness of effects of potential cognitive biases, ethical issues in research, and other advanced legal research matters.

Prerequisite(s): LAW 245.2 Legal Research and Writing

Rationale: Advanced Legal Research & Writing provides upper-year law students the opportunity to deepen and consolidate skills for research, analysis and writing, and prepare to use those skills in professional decision-making. The development of legal research, communication and client advising skills is a progressive process but connects to something very central to the tasks of professional lawyers (and academic lawyers as well). The proposed course is designed to extend, rather than duplicate, the research and writing skills introduced in the first-year course. This course focuses on deploying and applying research strategies to solve problems and provide advice to a client or other decision-maker. Techniques and concepts introduced in first year are refreshed, but the focus is on a greater variety of research finding tools, including quantum, annotated statutes, subject-specific research guides, advanced use of secondary sources, advanced legislative interpretation tools, Aboriginal and Indigenous legal sources, and international legal sources. As upper year students, students are expected to have a more sophisticated evaluation, selection and analysis of research results to solve legal problems.

Minor Program Modifications:

The new LAW 349 and 468 seminar courses will be added to the J.D. degree program and the Juris Doctor (J.D.) and Master of Business Administration (M.B.A.) Combined degree program, as follows (in red):

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

Year 1 (30 credit units)

Year 2 and Year 3 (60 credit units)

Students must register in **15 credit units** per term. Students must receive a grade of 60% or better in each of LAW 300 Minor Research Paper, LAW 301 Major Research Paper, and the seminar requirement, to receive credit for the research paper requirements or the seminar requirement.

The following courses are required in Year 2:

- [LAW 340.3](#) Administrative Law I
- [LAW 300.0](#) Law Minor Research Paper or [LAW 301.0](#) Law Major Research Paper

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

- [LAW 300.0](#) Law Minor Research Paper
- [LAW 301.0](#) Law Major Research Paper
- [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](#) Selected Topics in Indigenous Legal Studies Seminar
- LAW 480.3 Indigenous Peoples in International and Comparative Law

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

- [LAW — 300-Level, 400-Level](#)

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

- [LAW 305.3](#) Clinical Law
- [LAW 349.3](#) Housing, Homelessness, and the Law
- LAW 393.3
- [LAW 341.3](#) First Nations Economic Development
- [LAW 400.3](#) Wildlife Law
- [LAW 405.3](#) Advanced Criminal Law
- [LAW 406.3](#) Law and Culture
- [LAW 413.3](#) Current Issues in Law Reform
- [LAW 414.3](#) Access to Justice and the Institutions of Justice
- [LAW 416.3](#) Elder Law

- [LAW 418.3](#) Sexual Assault
- [LAW 420.3](#) Current Issues in Insolvency
- [LAW 422.3](#) Indigenous Legal Processes
- [LAW 424.3](#) Sports Law
- [LAW 426.3](#) Advanced Secured Transactions
- LAW 429.3
- [LAW 431.3](#) Advanced Constitutional Law
- [LAW 432.3](#) Human Rights
- [LAW 433.3](#) Sallows Human Rights Seminar
- [LAW 435.3](#) Law and Economics
- [LAW 438.3](#) Economic Inequality Poverty and the Law
- [LAW 442.3](#) Refugee Law
- [LAW 443.3](#) Indigenous Peoples and the Criminal Process
- [LAW 446.3](#) Natural Resources Law
- [LAW 453.3](#) Aboriginal Law and Policy in Canada
- [LAW 458.3](#) Advanced Health Law
- [LAW 463.3](#) Fiduciary Obligations
- [LAW 465.3](#) Law Development and the International System
- [LAW 468.3](#) **Advanced Family Law**
- [LAW 466.3](#) Youth Criminal Justice
- LAW 470.3
- LAW 473.3
- [LAW 474.3](#) Children and Law
- [LAW 479.3](#) Selected Topics in Indigenous Legal Studies Seminar
- LAW 480.3
- [LAW 481.3](#) Business Regulation
- [LAW 482.3](#) Criminal Intensive Seminar
- [LAW 485.3](#) International Criminal Law
- [LAW 486.3](#) Law and Psychiatry
- [LAW 488.3](#) Tax Policy
- [LAW 491.3](#) Clinical Law Seminar
- LAW 493.3
- [LAW 494.3](#) Prison Law and Human Rights
- [LAW 497.3](#) Legal Ethics Clinical Seminar

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

Admission Requirements

Degree Requirements

- [GPS 960.0](#) Introduction to Ethics and Integrity
- [GPS 961.0](#) Ethics and Integrity in Human Research, if research involves human subjects

- [GPS 962.0](#) Ethics and Integrity in Animal Research, if research involves animal subjects
- [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
- [LAW 300.0](#) Law Minor Research Paper
- [LAW 301.0](#) Law Major Research Paper
- [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, or [LAW 443.3](#) Indigenous Peoples and the Criminal Process, or [LAW 447.3](#) Aboriginal Rights Moot or [LAW 453.3](#) Aboriginal Law and Policy in Canada or LAW 473.3, or [LAW 479.3](#) Selected Topics in Indigenous Legal Studies Seminar, or LAW 480.3 or equivalent as approved by the Associate Dean Academic, College of Law
- [LAW 340.3](#) Administrative Law I
- [LAW 421.3](#) Legal Ethics and Professionalism or [LAW 497.3](#) Legal Ethics Clinical Seminar
- [LAW 430.3](#) Negotiation and Dispute Resolution
- [LAW 439.3](#) Mediation
- [LAW 467.3](#) Labour and Employment Law
- [MBA 803.3](#) Business and Society
- [MBA 819.3](#) Marketing for Organizational Decision Making
- [MBA 828.3](#) Tactical Strategy
- [MBA 830.3](#) Operations Management
- [MBA 846.3](#) Introduction to Entrepreneurship and Venture Development
- [MBA 859.4](#) Financial Reporting
- [MBA 862.3](#) Financial Management
- [MBA 863.2](#) International Business or an approved elective from an international partner institution or an Edwards "taught abroad" course
- [MBA 865.3](#) Accounting for Planning and Decision Making
- [MBA 866.2](#) Innovation Management
- [MBA 870.3](#) Corporate Finance
- [MBA 885.3](#) Essential Management Skills
- [MBA 992.3](#) Research - Project
- an **additional 33 credit units** of LAW course work which must include a minimum of 3 credit units (with a minimum 60% average) from the following list of Seminar Classes or equivalent, as approved by the Associate Dean Academic (Year 2 or Year 3). The Seminar Class may meet more than one requirement. Choices are as follows:
 - [LAW 305.3](#) Clinical Law
 - [LAW 341.3](#) First Nations Economic Development
 - [LAW 349.3](#) **Housing, Homelessness, and the Law**
 - [LAW 393.3](#) Gender and the Law
 - [LAW 400.3](#) Wildlife Law
 - [LAW 405.3](#) Advanced Criminal Law
 - [LAW 406.3](#) Law and Culture 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 and Disability
- [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 Natural Resources Law
- [LAW 453.3](#) Aboriginal Law and Policy in Canada
- [LAW 458.3](#) Advanced Health Law
- [LAW 463.3](#) Fiduciary Obligations
- [LAW 465.3](#) Law Development and the International System
- [LAW 466.3](#) Youth Criminal Justice
- [LAW 468.3](#) **Advanced Family Law**
- LAW 470.3 Business Finance
- LAW 473.3
- [LAW 474.3](#) Children and Law
- [LAW 479.3](#) Selected Topics in Indigenous Legal Studies Seminar
- LAW 480.3 Indigenous Peoples in International and Comparative Law
- [LAW 481.3](#) Business Regulation
- [LAW 482.3](#) Criminal Intensive Seminar
- [LAW 485.3](#) International Criminal Law
- [LAW 486.3](#) Law and Psychiatry
- [LAW 488.3](#) Tax Policy
- [LAW 491.3](#) Clinical Law Seminar
- LAW 493.3
- [LAW 494.3](#) Prison Law and Human Rights
- [LAW 497.3](#) Legal Ethics Clinical Seminar

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College of Nursing – January 2023 University Course Challenge

The following has been approved by the College of Nursing and is now being submitted to University Course Challenge for approval:

New Course Proposal

NURS 410.3 History of Health Systems, Public Health, and Nursing in Canada

This course will assist students in exploring issues and trends in Canadian health systems, public health, and nursing history during the nineteenth and twentieth centuries. Students will engage in critical analysis of scholarly historiography and select primary sources. Emphasis will be placed on exploring key aspects of Canadian healthcare history, with attention to broader social changes influencing health professionals and their practice contexts.

Prerequisite(s): N/A

Note: This course is hybrid with NURS 810. Students may receive credit for one of NURS 810 or NURS 410.

Rationale: This course offers the opportunity to explore historical scholarship related to Canadian health systems, public health, and nursing during the 19th and 20th centuries. Key scholarly works will be examined to understand major social and cultural changes in healthcare, including analysis of shifting concepts such as religion, gender, class, place, and race, as well as the impact of institutions and policy on healthcare, public health, and nursing in Canada. For example, students will explore the rise of professional nursing, transitions of the modern hospital, the influence of Medicare, and changes in health prevention and outcomes will be explored. We will examine the processes associated with historical research, analysis, and criticism, including the opportunity to analyze primary sources from an archival collection in relation to the scholarly works explored in this course.

The new course will be added to the programs, as follows in red:

Bachelor of Science in Nursing (B.S.N.) (133 credit units)

- [Pre-Professional Year 1 \(30 credit units\)](#)
- [Nursing Year 2 \(37 credit units\)](#)
- [Nursing Year 3 \(36 credit units\)](#)
- [Nursing Year 4 \(30 credit units\)](#)

Nursing Year 4 (30 credit units)

- [NURS 422.3](#) Issues in Leadership and Management Transformative Practice in Health Care Organizations
- [NURS 430.3](#) Community Health Nursing Building Partnerships

- [NURS 431.6](#) Community Nursing Practice*
- [NURS 440.3](#) Interprofessional Perspectives Health Systems and Policy Development within a Global Context
- [NURS 441.3](#) Transitioning to Professional Practice
- [NURS 450.9](#) Practice Integration*

Restricted elective (3 credit units). Students will choose one of the eligible electives from the Restricted Electives List below, or other courses with approval from the College of Nursing. Students must complete the Restricted Elective at the same time or before [NURS 431.6](#) Community Nursing Practice and [NURS 450.9](#) Practice Integration.

*Students are expected to have at least one clinical experience outside of the city in which they study.

Restricted Electives List

To receive credit for a restricted elective, the course must have been completed within the last 6 years from the date of admission to the program. A grade of 60% will be required to receive credit from courses taken outside the College of Nursing.

University of Saskatchewan:

- [NURS 410.3](#) History of Health Systems, Public Health, and Nursing in Canada
- [AGMD 800.3](#) Public Health and Agricultural Rural Ecosystem PHARE
- [ARCH 472.3](#) Palaeopathology
- [CHEP 402.3](#) Global Health and Local Communities Issues and Approaches
- [CHEP 403.3](#) Global Health II
- [COMM 306.3](#) Ethics and Strategic Decision Making
- [COMM 384.3](#) Workplace Health and Safety
- [EFDT 301.3](#) Educator Identity in Contexts Anti Oppressive and Ethical Beginnings
- [EFDT 435.3](#) Critical Perspectives in Educational Thought and Values
- EFDT 335.3
- [ENVS 401.3](#) Sustainability in Action
- [EPSE 302.3](#) Situated Learners Contexts of Learning and Development
- [INDG 230.3](#) Gender in Traditional and Contemporary Indigenous Societies
- [INDG 264.3](#) Aboriginal People and Canadian Politics
- [INDG 265.3](#) Aboriginal People and Development
- [KIN 232.3](#) Physical Activity in Society
- [KIN 423.3](#) Adapted Physical Activity
- [KIN 424.3](#) Aging and Activity
- Etc.

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Post-Degree Bachelor of Science in Nursing (PDBSN) Option (94 credit units)

- [Year 1 \(52 credit units\)](#)
- [Year 2 \(42 credit units\)](#)

Restricted Electives List

To receive credit for a restricted elective, the course must have been completed within the last 6 years from the date of admission to the program. A grade of 60% will be required to receive credit from courses taken outside the College of Nursing.

University of Saskatchewan:

- **NURS 410.3** History of Health Systems, Public Health, and Nursing in Canada
- [AGMD 800.3](#) Public Health and Agricultural Rural Ecosystem PHARE
- [ARCH 472.3](#) Palaeopathology
- [CHEP 402.3](#) Global Health and Local Communities Issues and Approaches
- [CHEP 403.3](#) Global Health II
- [COMM 306.3](#) Ethics and Strategic Decision Making
- [COMM 384.3](#) Workplace Health and Safety
- [EFDT 301.3](#) Educator Identity in Contexts Anti Oppressive and Ethical Beginnings
- [EFDT 435.3](#) Critical Perspectives in Educational Thought and Values
- EFDT 335.3
- [ENVS 401.3](#) Sustainability in Action
- Etc.

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University Course Challenge – January 2023

The following curricular changes were approved by the College of Pharmacy and Nutrition - Nutrition Program Advisory Committee (B.Sc.Nutr curriculum changes) and the Pharmacy Program Advisory Committee (PharmD curriculum changes) and are being submitted to the January 2023 course challenge for approval.

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

New Course

NUTR 190.0

Title: Introduction to the B.Sc.(Nutr.) Program

This course will provide students with important introductory information related to the College of Pharmacy and Nutrition and the BSc(Nutr) program. It will also provide students with an opportunity to complete some of the mandatory training required as part of the program.

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

Rationale: This course will provide students with important introductory information related to the College of Pharmacy and Nutrition and the BSc(Nutr) program. It will also provide students with an opportunity to complete some of the mandatory training required in the program, rather than taking class time in other courses as is happening currently. By creating a course that includes the completed mandatory training as a course requirement, it allows the College a way to ensure the training is completed (i.e., students are not able to progress in the program until the course is completed).

This course requirement will be implemented in 2023-24.

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

Year 1

33 credit units

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

Unrestricted Electives

- Choose 3 credit units of unrestricted electives

Year 2

36 credit units

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

*offered in Spring and Summer terms

Unrestricted Electives

- Choose 3 credit units of unrestricted electives

Year 3

33 credit units

- [COMM 201.3](#) Introduction to Financial Accounting
- [NUTR 420.3](#) Current Issues in Nutrition
- [NUTR 425.3](#) Nutritional Assessment
- [NUTR 430.3](#) Professional Practice III
- [NUTR 441.3](#) Clinical Nutrition I
- [NUTR 442.3](#) Clinical Nutrition II
- [NUTR 450.3](#) Nutrition Program Planning and Evaluation
- [NUTR 466.3](#) Organization and Management of Nutrition Services
- Advanced food safety training instruction

Unrestricted Electives

- Choose 9 credit units of unrestricted electives

Year 4

30 credit units

- [NUTR 531.30](#) Professional Practice IV
- Successful completion of the practicum

New Course

PHAR 293.0

Title: Capstone Year 2

This course consists of a capstone (comprehensive) exam at the conclusion of Year 2 of the PharmD program to formatively assess the competencies across all courses in year 2. Sessions

and resources will be provided during the term(s) to provide guidance, including how to effectively prepare for a comprehensive exam.

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

Prerequisite(s): PHAR 290.0

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. This course requirement will be implemented in 2023-24.

Doctor of Pharmacy (Pharm.D.) (173 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 Community Pharmacy Practice Experience

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

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 Hospital Pharmacy Practice Experience

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 5

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 6

PHAR 368.1 Pharmacy Practice 6

PHAR 375.3 Pharmacy Skills Development 6

PHAR 392.1 IPE Activities

PHAR 395.3 Preparing for Patient Care/Complex Cases Capstone

Fall and Winter Terms

PHAR 388.2 Experiential Learning 3

Year 4 (35 credit units)

PHAR 481.8 Advanced Practice Experience 1: Acute Care (Hospital) Experience

PHAR 482.8 Advanced Practice Experience 2: Community Pharmacy Experience

PHAR 483.8 Advanced Practice Experience 3: Other Direct Patient Care Experience

PHAR 484.8 Advanced Practice Experience 4: Elective Practice Experience or PHAR 485.4 and PHAR 486.4

PHAR 487.1 Integrating Seminar

PHAR 488.1 Integrating Seminar

PHAR 489.1 Integrating Seminar

PHAR 490.0 Introduction to Year 4

Course Revisions

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

The following changes are in response to the new Food and Nutrition program offered through the College of Agriculture and Bioresources. These changes will allow students enrolled in the program to be able to take the necessary Nutrition courses without having completed all required prerequisites or corequisites currently required for students enrolled in the B.Sc.(Nutr.) program.

NUTR 221.3 Advanced Nutrition Micronutrients

Current Corequisite:

NUTR 120; BMSC 230; and PHSI 208 or BMSC 207 and 208

New Corequisite:

NUTR 120; BMSC 230; and PHSI 208 or BMSC 207 and 208; or permission of the instructor

NUTR 305.3 Research Methods

Current Prerequisite(s): NUTR 221 and PLSC 214

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

NUTR 321.3 Advanced Nutrition Macronutrients and Energy

Current Corequisite: NUTR 120; BMSC 230; and PHSI 208 or BMSC 207 and 208.

New Corequisite: NUTR 120; BMSC 230; and PHSI 208 or BMSC 207 and 208; or permission of the instructor.

NUTR 365.3 Quantity Food Production and Service

Current Prerequisite: FABS 110 (formerly FABS 210)

New Prerequisite: FABS 110 (formerly FABS 210); NUTR 310; or permission of the instructor

Items for Information

The following course changes only involve NUTR courses. As such, they are being submitted here for information:

NUTR 230.3 Professional Practice I

New Prerequisite: NUTR 190.0

NUTR 310.3 Food Culture and Human Nutrition

Current Prerequisite(s): NUTR 221

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

NUTR 322.3 Nutrition Throughout the Lifespan

Current Prerequisite: NUTR 221

New Prerequisite: NUTR 221; or permission of the instructor

NUTR 420.3 Current Issues in Nutrition

Current:

Prerequisite(s): NUTR 425.

Corequisite(s): NUTR 441 and 442.

New:

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