



Academic Programs Committee of Council

University Course Challenge

Scheduled posting: November, 2019

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 Education
College of Engineering
College of Kinesiology
College of Law

Approval: Date of circulation: November 14, 2019
 Date of effective approval if no challenge received: November 29, 2019

Next scheduled posting:

The next scheduled posting will be December 12, 2019, with a submission deadline **December 10, 2019**. 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 Office of the University Secretary.

University Course Challenge – November 2019

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)

Health Studies

Add Lower Level of Concentration

Bachelor of Arts and Science Honours and Four-year in Health Studies

New concentration in “Changing Climates and Health.

Bachelor of Arts and Science Honours (B.A.& Sc. Honours) – Changing Climates and Health

Climate change has been described as a public health emergency. The effects of climate change are already altering our physical environments. Human health is intrinsically linked to the health of our environment, from air and water quality to food and energy security. In addition to direct impacts on health, climate change can disrupt healthcare systems, local economies, and governance structures. The Changing Climates and Health stream provides a critical foundation in ecosystem, climate, and climate change science that can be applied to better understand mechanisms for assessing and planning for health in changing environments or to explore public health implications of natural disasters or for Indigenous populations.

D. Changing Climates and Health

No more than 6 credit units from one subject may be used in Requirements J1, J2, and J3.

J1 College Requirement (9 credit units)

English Language Requirement

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

- ENG 110.6
- ENG 111.3
- ENG 112.3
- ENG 113.3
- ENG 114.3
- ENG 120.3

If ENG 110 is chosen, 3 credit units will be used to fulfill the Arts Distribution Requirement (J3).

Indigenous Learning

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

- ANTH 202.3
- ARCH 350.3
- ENG 242.3
- ENG 335.3
- HIST 266.3

- INDG 107.3 (Recommended for Option D)
- PLAN 445.3
- POLS 222.3

Quantitative Reasoning

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

- [MATH 110.3](#)
- [MATH 125.3](#) (recommended)
- [MATH 176.3](#)

J2 Science Distribution Requirement (15 credit units)

- BIOL 120.3
- BIOL 121.3
- CHEM 112.3
- CHEM 250.3

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

- [GEOG 120.3](#) (This course is a prerequisite for required courses in Option D.)
- [PHYS 115.3](#)

J3 Arts Distribution Requirement (12 credit units)

- [PSY 120.3](#) (formerly half of PSY 110)
- [PSY 121.3](#) (formerly half of PSY 110)

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

Note that many of the required courses described below have first year prerequisites. [ANTH 111.3](#), [ECON 111.3](#), [GEOG 130.3](#), 3 credit units 100-level HIST, [SOC 111.3](#), [SOC 112.3](#), [WGST 112.3](#) are recommended options. GEOG 130.3 is recommended for Option D.

If selected in College Requirement J1, 3 credit units of ENG 110.6 will be counted here.

- [ANTH 111.3](#)
- [ARCH 112.3](#)
- [ARCH 116.3](#)
- [ART 111.6](#)
- [ART 112.6](#)
- [ART 136.3](#)
- [ART 151.3](#)
- [ART 152.3](#)
- [ART 141.3](#)
- [ART 161.3](#)
- [ARTH 120.3](#)
- [ARTH 121.3](#)
- [CHIN 114.3](#)
- [CHIN 117.3](#)
- [CLAS 110.3](#)

- [CLAS 111.3](#)
- [CMRS 110.3](#)
- [CMRS 111.3](#)
- [CREE 101.6](#)
- [CREE 120.6](#)
- [DRAM 101.3](#)
- [DRAM 104.6](#)
- [DRAM 110.3](#)
- [DRAM 113.3](#)
- [DRAM 118.3](#) (formerly DRAM 116)
- [DRAM 119.3](#) (formerly DRAM 117)
- [DRAM 121.3](#)
- [ECON 111.3](#)
- [ECON 114.3](#)
- ENG 110.6
- ENG 111.3
- ENG 112.3
- ENG 113.3
- ENG 114.3
- ENG 120.3
- [FREN 103.3](#)
- [FREN 106.3](#)
- [FREN 122.3](#)
- [FREN 125.3](#)
- [FREN 128.3](#)
- [FREN 218.3](#)
- [GEOG 130.3](#)
- [GEOG 150.3](#)
- [GERM 114.3](#)
- [GERM 117.3](#)
- [GRK 113.3](#)
- [HEB 114.3](#)
- [HEB 117.3](#)
- [HIST 110.3](#)
- [HIST 111.3](#)
- [HIST 115.3](#)
- [HIST 120.6](#)
- [HIST 121.3](#)
- [HIST 122.3](#)
- [HIST 125.3](#)
- [HIST 135.3](#)
- [HIST 145.3](#)
- [HIST 151.3](#)
- [HIST 152.3](#)
- [HIST 155.3](#)
- [HIST 165.3](#)
- [HIST 170.6](#)
- [HIST 175.3](#)
- [INCC 120.1](#)
- [INDG 107.3](#)
- [INTS 101.12](#)
- [IS 110.3](#)
- [LATN 112.3](#)

- [LATN 113.3](#)
- [LING 110.3](#)
- [LING 111.3](#)
- [LING 112.3](#)
- [LIT 100.6](#)
- [MUS 101.3](#)
- [MUS 105.3](#)
- [MUS 111.3](#)
- [MUS 120.2](#)
- [MUS 121.2](#)
- [MUS 133.3](#)
- [MUS 134.3](#)
- [MUS 150.3](#)
- [MUS 151.3](#)
- [MUS 184.3](#)
- [PHIL 110.6](#)
- [PHIL 115.3](#)
- [PHIL 120.3](#)
- [PHIL 133.3](#)
- [PHIL 140.3](#)
- [POLS 111.3](#)
- [POLS 112.3](#)
- [RLST 110.6](#)
- [RUSS 114.3](#)
- [RUSS 117.3](#)
- [SNSK 114.3](#)
- [SNSK 117.3](#)
- [SOC 111.3](#)
- [SOC 112.3](#)
- [SPAN 114.3](#)
- [SPAN 117.3](#)
- [UKR 114.3](#)
- [UKR 117.3](#)
- [WGST 112.3](#)
- Any senior-level fine arts, humanities or social sciences course, provided that the prerequisite is met and not more than 6 credit units in one subject are used for the Arts Distribution Requirement.
- [CLAS 103.3](#), [CLAS 104.3](#), [CLAS 105.3](#), and [CLAS 106.3](#) may not be used to fulfill the Arts Distribution Requirement.
- Statistics courses in social sciences are not accepted for credit toward the Arts Distribution Requirement (eg. [PSY 233.3](#), [PSY 234.3](#), [SOC 225.3](#) and [SOC 325.3](#)).

J4 Major Requirement (63 credit units)

- HLST 110.3
- HLST 210.3
- HLST 310.3
- HLST 410.6

Students must choose one of the options upon entering the Health Studies program. Concentration within a stream of study, including specific clusters of courses, facilitates depth in specific areas, thus facilitating job training in particular areas or further study in specific disciplines. The approved courses within each stream are listed, but other appropriate courses may be approved by the Program Chair.

Option D: Changing Climates and Health (48 credit units)

This stream emphasizes how and why environmental processes and factors that influence human health are changing, and the implications for current and future human health. Students focusing on this stream will develop a multidimensional understanding of the nature and role of changing climate and environments on health.

Within Option D, students must take courses from at least 4 subjects.

D1. Science cluster (12 credit units):

At least 3 credit units must be at the 300-level or higher.

Changing Environments (12 credit units):

- [BIOL 228.3](#) An Introduction to Ecology and Ecosystems
- [GEOG 233.3](#) Intro Weather and Climate
- [GEOG 333.3](#) Global Climate Change

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

- [GEOG 235.3](#) Earth Processes and Natural Hazards
- [BIOL 363.3](#) Population Ecology
- [BIOL 373.3](#) Community Ecology
- [BIOL 314.3](#) Life in the North

D2. Choose one of the following Arts clusters (12 credit units):

Additional requirement across all clusters:

- [GEOG 364.3](#) Geography of Environment and Health

Choose **9 credit units** from **one** of the following clusters:

At least 3 credit units must be at the 300-level or higher.

i. Changing Indigenous Environments:

- [INDG 210](#) Indigenous Ways of Knowing OR [INDG 241](#) Weaving Indigenous Science and Western Science
- [INDG 221](#) Indigenous Food Sovereignty
- [GEOG 464.3](#) Indigenous Peoples, Environment, and Health

ii. Disasters:

- [ANTH 405](#) Anthropology of Disaster
- [INDG 321](#) Indigenous Disaster Risk Reduction
- [GEOG 280.3](#) Environmental Geography
- [PSY 207.3](#) Psychology of Death and Dying OR [PSY 261.3](#) Community Psychology
- [PLAN 445.3](#) Planning with Indigenous Communities
- [GEOG 235](#) Earth Processes and Natural Hazards A Canadian Perspective

iii. Assessing and Planning:

- [INDG 210](#) Indigenous Ways of Knowing
- [GEOG 464.3](#) Indigenous Peoples, Environment, and Health
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 322.3](#) Introduction to Geographic Information Systems
- [GEOG 323.3](#) Remote Sensing
- [GEOG 348.3](#) Introduction to Demography
- [GEOG 386.3](#) Environmental Impact Assessment
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 420.3](#) Cartography and Professional Communication
- [PLAN 445.3](#) Planning with Indigenous Communities

D3. Statistics:

Complete the following statistics requirements:

- PSY 233.3
- PSY 234.3

*Students who are not eligible to take PSY 233 or PSY 234 as a result of having previously taken a different Statistics course(s) must consult the Program Chair to determine the effect on their program requirements. Equivalent courses will be accepted, but their designation as Science or Social Science courses may cause the program requirements below to be revised.

D4. Choose 6 credit units from the following "CE&H" Science courses:

At least 3 credit units chosen to fulfill D4, D5 or D6 must be at the 300-level or higher.

GEOG 235 is recommended if taking D2 Cluster ii (Disasters)

- [ARCH 270](#) Introduction to Human Evolution
- [ARCH 475](#) Bioarchaeology
- [BIOL 324.3](#) Plants and Human Affairs
- [BIOL 363.3](#) Population Ecology
- [BIOL 373.3](#) Community Ecology
- [BIOL 410.3](#) Current Perspectives in Environmental Biology
- [BIOL 412.3](#) Limnology
- [BIOL 436.3](#) Animal Parasitology
- [BIOL 470.3](#) Conservation Biology
- [BIOL 475.3](#) Ecological Toxicology
- [CHEM 375.3](#) Environmental Chemistry
- [FABS 212.3](#) Agrifood and Resources Microbiology
- [FABS 323.3](#) Food Additives and Toxicants
- [FABS 360.3](#) Water Microbiology and Safety
- [FABS 430.3](#)
- [GEOG 225](#) Hydrology of Canada
- [GEOG 235](#) Earth Processes and Natural Hazards A Canadian Perspective
- [TOX 300.3](#) General Principles of Toxicology
- [TOX 301.3](#) Environmental Toxicology
- [TOX 302.3](#) Introduction to Aquatic Toxicology
- [TOX 310.3](#) Radiation and Radionuclide Toxicology

- [TOX 320.3](#) Inhalation and Environmental Toxicology of Air Pollutants
- [TOX 321.3](#) Risk Assessment and Regulatory Toxicology
- [TOX 403.3](#) Biotoxins
- [TOX 412.3](#) Toxicology of Industrial Pollutants

D5. Choose 6 credit units from the following Health Studies Science courses:

At least 3 credit units chosen to fulfill D4, D5 or D6 must be at the 300-level or higher.

*Students with credit for BMSC 207.3 and BMSC 208.3 (formerly [PHSI 208.6](#)) may not subsequently receive credit for [BIOL 224.3](#). Students may receive credit for both of [BIOL 224.3](#) and both of BMSC 207.3 and BMSC 208.3 only if [BIOL 224.3](#) is completed first. [BIOL 224.3](#) may not be taken concurrently with either of [BMSC 207.3](#) or BMSC 208.3. [BIOL 224.3](#) is a prerequisite for a number of senior Biology courses including [BIOL 317.3](#); [BMSC 208.3](#) is a prerequisite for most 300-level PHPY courses.

- [ACB 310.3](#)
- [ACB 330.3](#)
- [BIOL 224.3](#)*
- [BIOL 226.3](#)
- [BIOL 228.3](#)
- [BIOL 317.3](#)
- BIOL 314.3
- [BIOL 318.3](#)
- [BIOL 324.3](#)
- [BIOL 361.3](#)
- [BIOL 363.3](#)
- [BIOL 373.3](#)
- [BIOL 410.3](#)
- [BIOL 412.3](#)
- [BIOL 430.3](#)
- [BIOL 436.3](#)
- [BIOL 470.3](#)
- [BIOL 475.3](#)
- [CHEM 375.3](#)
- [BMSC 200.3](#)
- [BMSC 210.3](#)
- [BMSC 220.3](#)
- [FABS 110.3](#)
- [FABS 212.3](#)
- [FABS 323.3](#)
- [FABS 325.3](#)
- [FABS 360.3](#)
- [FABS 362.3](#)
- [FABS 371.3](#)
- [FABS 430.3](#)
- [GEOG 233.3](#)
- [GEOG 235.3](#)
- [GEOG 333.3](#)
- [HSC 350.3](#)
- [MCIM 308.3](#)
- [MCIM 309.3](#)
- [MCIM 321.3](#)
- [MCIM 423.3](#)

- [NUTR 120.3](#)
- [PHPY 301.3](#)
- [PHPY 302.3](#)
- [PHPY 303.3](#)
- [PHPY 304.3](#)
- [PHPY 305.3](#)
- [PHPY 402.3](#)
- [PHPY 404.3](#)
- [PHSI 208.6*](#)
- [TOX 300.3](#)
- [TOX 301.3](#)
- [TOX 302.3](#)
- [TOX 310.3](#)
- [TOX 320.3](#)
- [TOX 321.3](#)
- [TOX 403.3](#)
- [TOX 412.3](#)

D6. Choose 6 credit units from the following Health Studies Arts courses:

At least 3 credit units chosen to fulfill D4, D5 or D6 must be at the 300-level or higher. PHIL 234 is strongly recommended for all students.

- [ANTH 231.3](#)
- [ANTH 332.3](#)
- [ANTH 403.3](#)
- [ANTH 405](#)
- [ANTH 480.3](#)
- [ARCH 270.3](#)
- [ARCH 470.3](#)
- [ARCH 471.3](#)
- [ARCH 472.3](#)
- [ECON 234.3](#)
- [GEOG 222](#)
- [GEOG 235](#)
- [GEOG 280](#)
- [GEOG 322](#)
- [GEOG 348](#)
- [GEOG 364.3](#)
- [GEOG 385](#)
- [GEOG 386](#)
- [GEOG 420](#)
- [GEOG 464.3](#)
- [HIST 253.3](#)
- [HIST 303.3](#)
- [HIST 333.3](#)
- [HIST 334.3](#)
- [HIST 353.3](#)
- [HIST 365.3](#)
- [HIST 387.3](#)
- [HIST 481.3](#)
- [HIST 484.3](#)

- [HIST 488.3](#)
- [INDG 210](#)
- [INDG 221.3](#)
- [INDG 241](#)
- [INDG 255.3](#)
- [INDG 256.3](#)
- [INDIG 321](#)
- [INDG 496](#)
- [PHIL 224.3](#)
- [PHIL 231.3](#)
- [PHIL 234.3](#)
- [PHIL 294.3](#)
- [PLAN 445.3](#)
- [PSY 207.3](#)
- [PSY 213.3](#)
- [PSY 214.3](#)
- [PSY 216.3](#)
- [PSY 223.3](#)
- [PSY 224.3](#)
- [PSY 226.3](#)
- [PSY 227.3](#)
- [PSY 230.3](#)
- [PSY 236.3](#)
- [PSY 242.3](#)
- [PSY 246.3](#)
- [PSY 256.3](#)
- [PSY 257.3](#)
- [PSY 260.3](#)
- [PSY 261.3](#)
- [PSY 315.3](#)
- [PSY 316.3](#)
- [PSY 317.3](#)
- [PSY 318.3](#)
- [PSY 347.3](#)
- [PSY 348.3](#)
- [PSY 380.3](#)
- [PSY 410.3](#)
- [PSY 418.3](#)
- [PSY 423.3](#)
- [PSY 427.3](#)
- [PSY 448.3](#)
- [RLST 282.3](#)
- [SOC 202.3](#)
- [SOC 219.3](#)
- [SOC 235.3](#)
- [SOC 242.3](#)
- [SOC 238.3](#)
- [SOC 319.3](#)
- [SOC 328.3](#)
- [SOC 341.3](#)
- [SOC 344.3](#)
- [SOC 347.3](#)
- [SOC 402.3](#)

- [SOC 409.3](#)
- [SOC 420.3](#)
- [SOC 421.3](#)
- [SOC 428.3](#)

J5 Electives (21 credit units)

Electives

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

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

Bachelor of Arts and Science Four-year (B.A.& Sc. 4 Year) – Changing Climates and Health

Climate change has been described as a public health emergency. The effects of climate change are already altering our physical environments. Human health is intrinsically linked to the health of our environment, from air and water quality to food and energy security. In addition to direct impacts on health, climate change can disrupt healthcare systems, local economies, and governance structures. The Changing Climates and Health stream provides a critical foundation in ecosystem, climate, and climate change science that can be applied to better understand mechanisms for assessing and planning for health in changing environments or to explore public health implications of natural disasters or for Indigenous populations.

D. Changing Climates and Health

No more than 6 credit units from one subject may be used in Requirements J1, J2, and J3.

J1 College Requirement (9 credit units)

English Language Requirement

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

- ENG 110.6
- ENG 111.3
- ENG 112.3
- ENG 113.3
- ENG 114.3
- ENG 120.3

If ENG 110 is chosen, 3 credit units will be used to fulfill the Arts Distribution Requirement (J3).

Indigenous Learning

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

- ANTH 202.3
- ARCH 350.3

- ENG 242.3
- ENG 335.3
- HIST 266.3
- INDG 107.3 (Recommended for Option D)
- PLAN 445.3
- POLS 222.3

Quantitative Reasoning

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

- [MATH 110.3](#)
- [MATH 125.3](#) (recommended)
- [MATH 176.3](#)

J2 Science Distribution Requirement (15 credit units)

- BIOL 120.3
- BIOL 121.3
- CHEM 112.3
- CHEM 250.3

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

- [GEOG 120.3](#) (This course is a prerequisite for required courses in Option D.)
- [PHYS 115.3](#)

J3 Arts Distribution Requirement (12 credit units)

- [PSY 120.3](#) (formerly half of PSY 110)
- [PSY 121.3](#) (formerly half of PSY 110)

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

Note that many of the required courses described below have first year prerequisites. [ANTH 111.3](#), [ECON 111.3](#), [GEOG 130.3](#), 3 credit units 100-level HIST, [SOC 111.3](#), [SOC 112.3](#), [WGST 112.3](#) are recommended options. GEOG 130.3 is recommended for Option D.

If selected in College Requirement J1, 3 credit units of ENG 110.6 will be counted here.

- [ANTH 111.3](#)
- [ARCH 112.3](#)
- [ARCH 116.3](#)
- [ART 111.6](#)
- [ART 112.6](#)
- [ART 136.3](#)
- [ART 151.3](#)
- [ART 152.3](#)
- [ART 141.3](#)
- [ART 161.3](#)
- [ARTH 120.3](#)

- [ARTH 121.3](#)
- [CHIN 114.3](#)
- [CHIN 117.3](#)
- [CLAS 110.3](#)
- [CLAS 111.3](#)
- [CMRS 110.3](#)
- [CMRS 111.3](#)
- [CREE 101.6](#)
- [CREE 120.6](#)
- [DRAM 101.3](#)
- [DRAM 104.6](#)
- [DRAM 110.3](#)
- [DRAM 113.3](#)
- [DRAM 118.3](#) (formerly DRAM 116)
- [DRAM 119.3](#) (formerly DRAM 117)
- [DRAM 121.3](#)
- [ECON 111.3](#)
- [ECON 114.3](#)
- ENG 110.6
- ENG 111.3
- ENG 112.3
- ENG 113.3
- ENG 114.3
- ENG 120.3
- [FREN 103.3](#)
- [FREN 106.3](#)
- [FREN 122.3](#)
- [FREN 125.3](#)
- [FREN 128.3](#)
- [FREN 218.3](#)
- [GEOG 130.3](#)
- [GEOG 150.3](#)
- [GERM 114.3](#)
- [GERM 117.3](#)
- [GRK 113.3](#)
- [HEB 114.3](#)
- [HEB 117.3](#)
- [HIST 110.3](#)
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- [IS 110.3](#)
- [LATN 112.3](#)
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- [LING 110.3](#)
- [LING 111.3](#)
- [LING 112.3](#)
- [LIT 100.6](#)
- [MUS 101.3](#)
- [MUS 105.3](#)
- [MUS 111.3](#)
- [MUS 120.2](#)
- [MUS 121.2](#)
- [MUS 133.3](#)
- [MUS 134.3](#)
- [MUS 150.3](#)
- [MUS 151.3](#)
- [MUS 184.3](#)
- [PHIL 110.6](#)
- [PHIL 115.3](#)
- [PHIL 120.3](#)
- [PHIL 133.3](#)
- [PHIL 140.3](#)
- [POLS 111.3](#)
- [POLS 112.3](#)
- [RLST 110.6](#)
- [RUSS 114.3](#)
- [RUSS 117.3](#)
- [SNSK 114.3](#)
- [SNSK 117.3](#)
- [SOC 111.3](#)
- [SOC 112.3](#)
- [SPAN 114.3](#)
- [SPAN 117.3](#)
- [UKR 114.3](#)
- [UKR 117.3](#)
- [WGST 112.3](#)
- Any senior-level fine arts, humanities or social sciences course, provided that the prerequisite is met and not more than 6 credit units in one subject are used for the Arts Distribution Requirement.
- [CLAS 103.3](#), [CLAS 104.3](#), [CLAS 105.3](#), and [CLAS 106.3](#) may not be used to fulfill the Arts Distribution Requirement.
- Statistics courses in social sciences are not accepted for credit toward the Arts Distribution Requirement (eg. [PSY 233.3](#), [PSY 234.3](#), [SOC 225.3](#) and [SOC 325.3](#)).

J4 Major Requirement (57 credit units)

- HLST 110.3
- HLST 210.3
- HLST 310.3

Students must choose one of the options upon entering the Health Studies program. Concentration within a stream of study, including specific clusters of courses, facilitates depth in specific areas, thus facilitating job training in particular areas or further study in specific disciplines. The approved courses within each stream are listed, but other appropriate courses may be approved by the Program Chair.

Option D: Changing Climates and Health (48 credit units)

This stream emphasizes how and why environmental processes and factors that influence human health are changing, and the implications for current and future human health. Students focusing on this stream will develop a multidimensional understanding of the nature and role of changing climate and environments on health.

Within Option D, students must take courses from at least 4 subjects.

D1. Science cluster (12 credit units):

At least 3 credit units must be at the 300-level or higher.

Changing Environments (12 credit units):

- [BIOL 228.3](#) An Introduction to Ecology and Ecosystems
- [GEOG 233.3](#) Intro Weather and Climate
- [GEOG 333.3](#) Global Climate Change

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

- [GEOG 235.3](#) Earth Processes and Natural Hazards
- [BIOL 363.3](#) Population Ecology
- [BIOL 373.3](#) Community Ecology
- [BIOL 314.3](#) Life in the North

D2. Choose one of the following Arts clusters (12 credit units):

Additional requirement across all clusters:

- [GEOG 364.3](#) Geography of Environment and Health

Choose **9 credit units** from one of the following clusters:

At least 3 credit units must be at the 300-level or higher.

i. Changing Indigenous Environments:

- [INDG 210](#) Indigenous Ways of Knowing OR [INDG 241](#) Weaving Indigenous Science and Western Science
- [INDG 221](#) Indigenous Food Sovereignty
- [GEOG 464.3](#) Indigenous Peoples, Environment, and Health

ii. Disasters:

- [ANTH 405](#) Anthropology of Disaster

- [INDG 321](#) Indigenous Disaster Risk Reduction
- [GEOG 280.3](#) Environmental Geography
- [PSY 207.3](#) Psychology of Death and Dying OR **PSY 261.3** Community Psychology
- [PLAN 445.3](#) Planning with Indigenous Communities
- [GEOG 235](#) Earth Processes and Natural Hazards A Canadian Perspective

iii. Assessing and Planning:

- [INDG 210](#) Indigenous Ways of Knowing
- [GEOG 464.3](#) Indigenous Peoples, Environment, and Health
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 322.3](#) Introduction to Geographic Information Systems
- [GEOG 323.3](#) Remote Sensing
- [GEOG 348.3](#) Introduction to Demography
- [GEOG 386.3](#) Environmental Impact Assessment
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 420.3](#) Cartography and Professional Communication
- [PLAN 445.3](#) Planning with Indigenous Communities

D3. Statistics:

Complete the following statistics requirements:

- PSY 233.3
- PSY 234.3

*Students who are not eligible to take PSY 233 or PSY 234 as a result of having previously taken a different Statistics course(s) must consult the Program Chair to determine the effect on their program requirements. Equivalent courses will be accepted, but their designation as Science or Social Science courses may cause the program requirements below to be revised.

D4. Choose 6 credit units from the following "CE&H" Science courses:

At least 3 credit units chosen to fulfill D4, D5 or D6 must be at the 300-level or higher.

GEOG 235 is recommended if taking D2 Cluster ii (Disasters)

- [ARCH 270](#) Introduction to Human Evolution
- [ARCH 475](#) Bioarchaeology
- [BIOL 324.3](#) Plants and Human Affairs
- [BIOL 363.3](#) Population Ecology
- [BIOL 373.3](#) Community Ecology
- [BIOL 410.3](#) Current Perspectives in Environmental Biology
- [BIOL 412.3](#) Limnology
- [BIOL 436.3](#) Animal Parasitology
- [BIOL 470.3](#) Conservation Biology
- [BIOL 475.3](#) Ecological Toxicology
- [CHEM 375.3](#) Environmental Chemistry
- [FABS 212.3](#) Agrifood and Resources Microbiology
- [FABS 323.3](#) Food Additives and Toxicants
- [FABS 360.3](#) Water Microbiology and Safety
- [FABS 430.3](#)

- [GEOG 225](#) Hydrology of Canada
- [GEOG 235](#) Earth Processes and Natural Hazards A Canadian Perspective
- [TOX 300.3](#) General Principles of Toxicology
- [TOX 301.3](#) Environmental Toxicology
- [TOX 302.3](#) Introduction to Aquatic Toxicology
- [TOX 310.3](#) Radiation and Radionuclide Toxicology
- [TOX 320.3](#) Inhalation and Environmental Toxicology of Air Pollutants
- [TOX 321.3](#) Risk Assessment and Regulatory Toxicology
- [TOX 403.3](#) Biotoxins
- [TOX 412.3](#) Toxicology of Industrial Pollutants

D5. Choose 6 credit units from the following Health Studies Science courses:

At least 3 credit units chosen to fulfill D4, D5 or D6 must be at the 300-level or higher.

*Students with credit for BMSC 207.3 and BMSC 208.3 (formerly [PHSI 208.6](#)) may not subsequently receive credit for [BIOL 224.3](#). Students may receive credit for both of [BIOL 224.3](#) and both of BMSC 207.3 and BMSC 208.3 only if [BIOL 224.3](#) is completed first. [BIOL 224.3](#) may not be taken concurrently with either of [BMSC 207.3](#) or [BMSC 208.3](#). [BIOL 224.3](#) is a prerequisite for a number of senior Biology courses including [BIOL 317.3](#); [BMSC 208.3](#) is a prerequisite for most 300-level PHPY courses.

- [ACB 310.3](#)
- [ACB 330.3](#)
- [BIOL 224.3](#)*
- [BIOL 226.3](#)
- [BIOL 228.3](#)
- [BIOL 317.3](#)
- [BIOL 314.3](#)
- [BIOL 318.3](#)
- [BIOL 324.3](#)
- [BIOL 361.3](#)
- [BIOL 363.3](#)
- [BIOL 373.3](#)
- [BIOL 410.3](#)
- [BIOL 412.3](#)
- [BIOL 430.3](#)
- [BIOL 436.3](#)
- [BIOL 470.3](#)
- [BIOL 475.3](#)
- [CHEM 375.3](#)
- [BMSC 200.3](#)
- [BMSC 210.3](#)
- [BMSC 220.3](#)
- [FABS 110.3](#)
- [FABS 212.3](#)
- [FABS 323.3](#)
- [FABS 325.3](#)
- [FABS 360.3](#)
- [FABS 362.3](#)
- [FABS 371.3](#)
- [FABS 430.3](#)
- [GEOG 233.3](#)
- [GEOG 235.3](#)

- [GEOG 333.3](#)
- [HSC 350.3](#)
- [MCIM 308.3](#)
- [MCIM 309.3](#)
- [MCIM 321.3](#)
- [MCIM 423.3](#)
- [NUTR 120.3](#)
- [PHPY 301.3](#)
- [PHPY 302.3](#)
- [PHPY 303.3](#)
- [PHPY 304.3](#)
- [PHPY 305.3](#)
- [PHPY 402.3](#)
- [PHPY 404.3](#)
- [PHSI 208.6*](#)
- [TOX 300.3](#)
- [TOX 301.3](#)
- [TOX 302.3](#)
- [TOX 310.3](#)
- [TOX 320.3](#)
- [TOX 321.3](#)
- [TOX 403.3](#)
- [TOX 412.3](#)

D6. Choose 6 credit units from the following Health Studies Arts courses:

At least 3 credit units chosen to fulfill D4, D5 or D6 must be at the 300-level or higher. PHIL 234 is strongly recommended for all students.

- [ANTH 231.3](#)
- [ANTH 332.3](#)
- [ANTH 403.3](#)
- [ANTH 405](#)
- [ANTH 480.3](#)
- [ARCH 270.3](#)
- [ARCH 470.3](#)
- [ARCH 471.3](#)
- [ARCH 472.3](#)
- [ECON 234.3](#)
- [GEOG 222](#)
- [GEOG 235](#)
- [GEOG 280](#)
- [GEOG 322](#)
- [GEOG 348](#)
- [GEOG 364.3](#)
- [GEOG 385](#)
- [GEOG 386](#)
- [GEOG 420](#)
- [GEOG 464.3](#)
- [HIST 253.3](#)
- [HIST 303.3](#)
- [HIST 333.3](#)

- [HIST 334.3](#)
- [HIST 353.3](#)
- [HIST 365.3](#)
- [HIST 387.3](#)
- [HIST 481.3](#)
- [HIST 484.3](#)
- [HIST 488.3](#)
- [INDG 210](#)
- [INDG 221.3](#)
- [INDG 241](#)
- [INDG 255.3](#)
- [INDG 256.3](#)
- [INDIG 321](#)
- [INDG 496](#)
- [PHIL 224.3](#)
- [PHIL 231.3](#)
- [PHIL 234.3](#)
- [PHIL 294.3](#)
- [PLAN 445.3](#)
- [PSY 207.3](#)
- [PSY 213.3](#)
- [PSY 214.3](#)
- [PSY 216.3](#)
- [PSY 223.3](#)
- [PSY 224.3](#)
- [PSY 226.3](#)
- [PSY 227.3](#)
- [PSY 230.3](#)
- [PSY 236.3](#)
- [PSY 242.3](#)
- [PSY 246.3](#)
- [PSY 256.3](#)
- [PSY 257.3](#)
- [PSY 260.3](#)
- [PSY 261.3](#)
- [PSY 315.3](#)
- [PSY 316.3](#)
- [PSY 317.3](#)
- [PSY 318.3](#)
- [PSY 347.3](#)
- [PSY 348.3](#)
- [PSY 380.3](#)
- [PSY 410.3](#)
- [PSY 418.3](#)
- [PSY 423.3](#)
- [PSY 427.3](#)
- [PSY 448.3](#)
- [RLST 282.3](#)
- [SOC 202.3](#)
- [SOC 219.3](#)
- [SOC 235.3](#)
- [SOC 242.3](#)
- [SOC 238.3](#)

- [SOC 319.3](#)
- [SOC 328.3](#)
- [SOC 341.3](#)
- [SOC 344.3](#)
- [SOC 347.3](#)
- [SOC 402.3](#)
- [SOC 409.3](#)
- [SOC 420.3](#)
- [SOC 421.3](#)
- [SOC 428.3](#)

J5 Electives (27 credit units)

Electives

Arts and Science courses, or those from other Colleges that have been approved for Arts and Science credit, to complete the requirements for 120 credit unit Four-year program. Of the 120 credit units required at least 66 must be at the 200-level or higher.

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

Rationale: Climate change has been described as a public health emergency. The effects of climate change are already altering our physical environments. Human health is intrinsically linked to the health of our environment, from air and water quality to food and energy security. In addition to direct impacts on health, climate change can disrupt healthcare systems, local economies, and governance structures. The Changing Climates and Health stream provides a critical foundation in ecosystem, climate, and climate change science that can be applied to better understand mechanisms for assessing and planning for health in changing environments or to explore public health implications of natural disasters or for Indigenous populations.

The objectives of this stream are:

- To provide a solid scientific foundation in climate and climate change science for future health professionals
- To apply climate and climate change science to specific environmental health issues (Indigenous health, natural disasters, measurement and assessment)

This stream provides welcome breadth into a cutting edge area of health training and research (i.e. climate change). It augments the interdisciplinary connections between departments through the inclusion of the departments of Geography and Planning and Indigenous Studies in core Health Studies streams. The stream represents the overall objectives of the Health Studies program through the integration of science, social science, and humanities/fine arts courses applied to a complex emerging public health threat. The reality of climate change requires a next generation of health professionals trained in integrative perspectives that emphasize how health and wellness are understood within the context of inter- relationships between the environment, culture, and society.

Ultimately, this stream is in direct response to a recommendation from the Canadian Public Health Association and the Canadian Medical Association in response to the Lancet Countdown report (2018) to "rapidly integrate climate change and health into the curriculum of all medical and health sciences faculties" (Lancet 2018 Countdown Report Briefing for Canadian Policymakers).

Lists 5 and 6 in the Major Requirement for each stream are comprised of all of the Science and Arts courses, respectively, from all streams. With the addition of new courses in the proposed stream, BIOL 314.3 and GEOG 233.3, 235.3, and 333.3 will be added to List 5 for the Biology, Development & Health; Individual, Society & Health; and Culture, Environment & Health streams. ANTH 405.3; GEO 222.3, 235.3, 280.3, 322.3, 348.3, 385.3, 386.3, and 420.3; INDG 210.3, 241.3, 321.3, and 496.3; and PLAN 445.3 will be added to List 6 for each of these streams.

Items for Information

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

Bioinformatics

Minor program revisions

Bachelor of Science Honours and Four-year in Bioinformatics

Mark-up of changes approved in the October Challenge, in the new Type C template.

Bachelor of Science Honours (B.Sc. Honours)

C4 Major Requirement (78 credit units)

- BINF 200.3
- BINF 300.3
- BINF 400.3*
- BIOC 310.3
- BIOC 311.3 or MCIM 391.3 or BIOL 420.3
- BIOL 120.3
- BIOL 121.3
- BIOL 226.3 or MCIM 326.3
- BMSC 200.3
- BMSC 240.3
- CHEM 250.3
- CMPT 141.3
- CMPT 145.3
- CMPT 260.3
- CMPT 270.3
- CMPT 280.3
- **CMPT 353.3** or CMPT 355.3
- CMPT 360.3
- STAT 242.3 or STAT 245.3 or STAT 246.3 (STAT 242 recommended)

* Requires completion of a research project (undergraduate thesis) on a bioinformatics topic. Students also have to attend the research seminars as determined by their project supervisor. With permission of the Academic Coordinator, project courses from other relevant departments may be used to fulfill this requirement, providing a bioinformatics project is pursued.

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

A minimum of 3 credit units must be completed from each list. At least 6 of the 21 credit units must be at the 300-level or higher.

List 1

- *No change*

List 2

- CMPT 214.3
- CMPT 215.3
- CMPT 317.3
- ~~CMPT 350.3~~
- CMPT 364.3
- CMPT 370.3
- CMPT 381.3
- **CMPT 384.3**
- CMPT 394.3
- CMPT 423.3
- CMPT 463.3

List 3

- *No change*

List 4

- *No change*

**Bachelor of Science Four-year (B.Sc. Four-year)
C4 Major Requirement (75 credit units)**

- BINF 200.3
- BINF 300.3
- BIOC 310.3
- BIOC 311.3 or MCIM 391.3 or BIOL 420.3
- BIOL 120.3
- BIOL 121.3
- BIOL 226.3 or MCIM 326.3
- BMSC 200.3
- BMSC 240.3
- CHEM 250.3
- CMPT 141.3
- CMPT 145.3
- CMPT 260.3
- CMPT 270.3
- CMPT 280.3

- **CMPT 353.3** or CMPT 355.3
- CMPT 360.3
- STAT 242.3 or STAT 245.3 or STAT 246.3 (STAT 242 recommended)

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

A minimum of 3 credit units must be completed from each list.

List 1

- *No change*

List 2

- CMPT 214.3
- CMPT 215.3
- CMPT 317.3
- ~~CMPT 350.3~~
- CMPT 364.3
- CMPT 370.3
- CMPT 381.3
- **CMPT 384.3**
- CMPT 394.3
- CMPT 423.3
- CMPT 463.3

List 3

- *No change*

List 4

- *No change*

Food Science

Minor program revisions

Bachelor of Science Honours and Four-year in Food Science

Mark-up of changes approved in the October Challenge, in the new Type C template.

Bachelor of Science Honours (B.Sc. Honours)

C4 Major Requirement (~~54~~ **57 credit units)**

- BLE 303.3
- BMSC 200.3
- BMSC 230.3
- CHEM 250.3
- FABS 110.3

- **FABS 211.3**
- FABS 212.3
- FABS 315.3
- FABS 325.3
- FABS 345.3
- FABS 417.3
- FABS 452.3
- FABS 494.6

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

- [FABS 323.3](#)
- [FABS 334.3](#)
- [FABS 360.3](#)
- [FABS 362.3](#)
- [FABS 366.3](#)
- [FABS 371.3](#)
- [FABS 401.3](#)
- [FABS 411.3](#)
- [FABS 457.3](#)
- [FABS 460.3](#)
- [FABS 474.3](#)
- [FABS 486.3](#)
- FABS 493.3

C5 Electives Requirement (~~15~~ 12 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 120 credit unit Honours program, of which at least 66 credit units must be at the 200-level or higher.

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

Students are encouraged to choose from the following list of recommended courses:

- [BIOC 310.3](#)
- [BIOL 226.3](#) (formerly BIOL 211)
- [BMSC 230.3](#)
- [BMSC 240.3](#)
- [AREC 292.3](#)
- [CHEM 115.3](#)
- [CHEM 221.3](#)
- [CHEM 231.3](#)
- [CHEM 242.3](#) (if not taken as part of C6 or as a required cognate course)
- [CHEM 255.3](#)
- [COMM 204.3](#) or [AREC 230.3](#) or [ENT 210.3](#)
- 200 and 300-level NUTR courses ([NUTR 221.3](#), [NUTR 305.3](#), [NUTR 310.3](#), [NUTR 321.3](#), and [NUTR 322.3](#) recommended)
- other courses at the discretion of the undergraduate student advisor

**Bachelor of Science Four-year (B.Sc. Four-year)
C4 Major Requirement (36 39 credit units)**

- BLE 303.3
- BMSC 200.3
- BMSC 230.3
- CHEM 250.3
- FABS 110.3
- **FABS 211.3**
- FABS 212.3
- FABS 315.3
- FABS 325.3
- FABS 345.3
- FABS 417.3
- FABS 452.3
- FABS 492.3

C5 Electives Requirement (33 30 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 120 credit unit Four-year program, of which at least 66 must be at the 200 or higher level.

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

Students are encouraged to choose from the following list of recommended courses:

- [BMSC 240.3](#)
- [AREC 292.3](#)
- [CHEM 115.3](#)
- [CHEM 221.3](#)
- [CHEM 231.3](#)
- [CHEM 242.3](#)
- [CHEM 255.3](#)
- [COMM 204.3](#) or [AREC 230.3](#) or [ENT 210.3](#)
- [FABS 323.3](#)
- [FABS 334.3](#)
- [FABS 360.3](#)
- [FABS 362.3](#)
- [FABS 366.3](#)
- [FABS 371.3](#)
- [FABS 401.3](#)
- [FABS 411.3](#)
- [FABS 457.3](#)
- [FABS 460.3](#)
- [FABS 474.3](#)
- [FABS 486.3](#)
- [FABS 493.3](#)
- PLSC 420.3

- 200 and 300-level NUTR courses ([NUTR 221.3](#), [NUTR 305.3](#), [NUTR 310.3](#), [NUTR 321.3](#), and [NUTR 322.3](#) recommended)
- other courses at the discretion of the undergraduate student advisor

Geophysics

Minor program revisions

Bachelor of Science Honours and Four-year in Geophysics

Mark-up of changes approved in the October Challenge, in the new Type C template.

Bachelor of Science Honours (B.Sc. Honours)

C3 Cognate Requirement (21 credit units)

Junior course requirements:

Students intending to register in CMPT 116 must contact the geophysics program advisor for permission.

- CHEM 112.3
- CMPT 116.3 or CMPT 141.3
- **MATH 164.3**

Senior course requirements:

- EP 320.3
- **MATH-266.3**
- MATH 331.3
- MATH 339.3
- PHYS 356.3 or EE 301.3

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

C3 Cognate Requirement (18 credit units)

Junior course requirements:

Students intending to register in CMPT 116 must contact the geophysics program advisor for permission.

- CHEM 112.3
- CMPT 116.3 or CMPT 141.3

Senior course requirements:

- EP 320.3
- **MATH 164.3** **MATH-266.3**
- PHYS 356.3 or EE 301.3

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

Students are advised to take [MATH 331.3](#) & [MATH 339.3](#)

- 200-Level, 300-Level, 400-Level courses in Science

Interactive Systems Design

Minor program revisions

Bachelor of Arts and Science Four-year in Interactive Systems Design

Mark-up of changes approved in the October Challenge, in the new Type J template.

Bachelor of Arts and Science Four-year (B.A. and Sc. Four-year)

J4 Major Requirement (~~54~~ **57 credit units)**

Science Requirement (30 credit units)

- CMPT 270.3
- CMPT 281.3
- CMPT 381.3
- CMPT 406.3 or CMPT 405.3
- CMPT 481.3
- ~~PHIL 232.3~~

Choose ~~42~~ **15** credit units from the following:

At least 3 credit units must be chosen at the 300-level or above

- Appropriate Special Topics courses may also be available in some terms.
- CMPT 214.3, CMPT 350.3, CMPT 352.3, CMPT 355.3, CMPT 370.3, CMPT 394.3 and CMPT 408.3 are recommended choices.
- CMPT — 200-Level, 300-Level, 400-Level

Arts Requirement (~~24~~ **27 credit units)**

- [PHIL 232.3](#)

Choose one of the following **12 credit unit** options:

- ART 211.6 and ART 311.6
- ART 212.6 and ART 312.6
- ART 214.6, or (ART 241.3 and ART 242.3); and ART 341.3 and 3 credit units senior ART or ARTH courses
- ART 216.6 and ART 316.6
- ART 236.3 and ART 237.3 and ART 338.3; and ARTH 250.3 or ARTH 251.3
- ART 251.3 and ART 313.6 and 3 credit units senior ART or ARTH courses
- ARTH 250.3 or ARTH 251.3; and 9 credit units senior ARTH courses including at least 3 credit units at the 300-level or above.

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

- PSY 213.3
- PSY 214.3
- PSY 216.3
- PSY 226.3
- PSY 252.3
- PSY 253.3
- PSY 255.3
- PSY 256.3

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

ARTH 250.3 may only be chosen to fulfill this requirement if not taken as part of the ART/ARTH requirements above.

- ARTH 250.3
- HIST 284.3
- PHIL 236.3
- SOC 244.3
- SOC 246.3
- WGST 201.3

J5 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 120 credit unit 4-year program subject to the condition that not more than 54 credit units may be at the junior level; at least 66 credit units must be at the 200 or higher level.

Mathematics

Minor program revisions

Bachelor of Science four-year and Three-year in Mathematics

Mark-up of changes approved in the October Challenge, in the new Type C template.

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

C4 Major Requirement (42 45 credit units)

- MATH 163.3
- [MATH 164.3](#) (formerly [MATH 264.3](#)) ~~or~~ [MATH 266.3](#)
- [MATH 266.3](#)
- [STAT 241.3](#)

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

- [MATH 110.3](#)
- MATH 176.3

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

- [MATH 116.3](#)
- MATH 177.3

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

Students contemplating Honours should choose MATH 276.

- [MATH 225.3](#)
- [MATH 276.3](#)

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

- [MATH 226.3](#) Intermediate Calculus II
- [MATH 277.3](#) Vector Calculus II (recommended)

Choose the remaining **24 21 credit units** from the following, using the following rules:

Choose at least 12 credit units that are at the 300-level or higher. ~~In total, at least 24 of the 30 senior credit units required for the major must be designated MATH.~~ Courses in mathematics and statistics at the 200-level other than those listed in this section are not acceptable as part of a major in mathematics.

Students contemplating Honours should take MATH 211, MATH 238, and MATH 277.

- 300-Level or 400-Level MATH Courses
- ~~300-Level or 400-Level STAT Courses~~
- [MATH 211.3](#) or ~~CMPT 141.3~~
- ~~MATH 226.3~~
- [MATH 238.3](#)
- [MATH 258.3](#)
- ~~MATH 266.3~~
- ~~MATH 277.3~~
- [STAT 242.3](#)

Students with interest in the following areas are recommended to take the courses below as part of their C6 Requirements:

Computational Mathematics

- MATH 211.3
- MATH 238.3
- MATH 313.3
- MATH 314.3
- MATH 439.3

Discrete Mathematics

- MATH 325.3
- MATH 327.3
- MATH 328.3

- MATH 364.3
- MATH 485.3

Pure Mathematics

- MATH 238.3
- MATH 361.3
- MATH 362.3
- MATH 371.3
- MATH 379.3

C5 Electives Requirement (45 42 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 120 credit unit Four-year program, of which at least 66 must be at the 200 or higher level.

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

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

C4 Major Requirement (30 33 credit units)

- MATH 163.3
- [MATH 164.3](#) (formerly [MATH 264.3](#)) or ~~[MATH 266.3](#)~~
- ~~[MATH 266.3](#)~~
- [STAT 241.3](#)

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

- [MATH 110.3](#)
- MATH 176.3

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

- [MATH 116.3](#)
- MATH 177.3

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

Students contemplating Honours should choose MATH 276.

- [MATH 225.3](#)
- [MATH 276.3](#)

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

- [MATH 226.3](#) Intermediate Calculus II
- [MATH 277.3](#) Vector Calculus II (recommended)

Choose the remaining **12.9 credit units** from the following, using the following rules:

At least 6 credit units must be at the 300-level or higher. ~~In total, at least 15 of the 18 senior credit units required for the major must be designated MATH.~~ Courses in mathematics and statistics at the 200-level other than those listed in this section are not acceptable as part of a major in mathematics.

Students contemplating Honours should take MATH 211 and MATH 238, ~~and MATH 277.~~

- 300-Level or 400-Level MATH Courses
- [MATH 211.3](#) or ~~CMPT 141.3~~
- ~~MATH 226.3~~
- [MATH 238.3](#)
- [MATH 258.3](#)
- ~~MATH 266.3~~
- ~~MATH 277.3~~
- [STAT 242.3](#)

C5 Electives Requirement (27.24 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 or higher level.

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

Palaeobiology

Minor program revisions

Bachelor of Science Honours and Four-year in Palaeobiology

Mark-up of changes approved in the October Challenge, in the new Type C template.

Bachelor of Science Honours (B.Sc. Honours)

C4 Major Requirement (66 credit units)

Junior course requirements:

- [ANTH 111.3](#)
- [ARCH 112.3](#)
- [BIOL 120.3](#)
- [BIOL 121.3](#)
- [GEOL 121.3](#)
- [GEOL 122.3](#)

Senior course requirements:

- [BIOL 222.3](#) (formerly BIOL 205)
- [BIOL 224.3](#) or [PBIO 230.3](#)
- [GEOL 206.3](#)
- [GEOL 245.3](#)

- [GEOL 247.3](#)

Choose 33 credit units to be selected from Categories A, B, C, and D, such that at least 18 credit units are chosen at the 300-400 level, of which at least 12 credit units must be at the 400-level. Students must complete a minimum of 6 credit units from each of Categories A, B, and C.

Category A

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

- [ARCH 250.3](#)
- [ARCH 251.3](#)
- [ARCH 270.3](#)
- [ARCH 361.6](#)
- [ARCH 458.6](#)
- [ARCH 459.3](#)
- [ARCH 462.3](#)
- [ARCH 470.3](#)
- [ARCH 471.3](#)

Category B

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

- [BIOL 226.3](#) (formerly BIOL 211)
- [BIOL 228.3](#) (formerly BIOL 253)
- [BIOL 302.3](#) (formerly BIOL 263)
- [BIOL 323.3](#)
- [BIOL 324.3](#)
- [BIOL 325.3](#)
- [BIOL 326.3](#)
- [BIOL 361.3](#)
- [BIOL 451.3](#)
- [BIOL 455.3](#)
- [BIOL 458.3](#)

Category C

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

- [GEOL 308.3](#)
- [GEOL 343.3](#)
- [GEOL 442.3](#)
- [GEOL 446.3](#)
- [GEOL 447.3](#)
- [GEOL 448.3](#)
- [GEOL 450.3](#)

Category D

- [GEOL 490.3](#)
- [GEOL 492.6](#)
- [P BIO 489.6](#)

Bachelor of Science Four-year (B.Sc. Four-year) C4 Major Requirement (66 credit units)

Junior course requirements:

- [ANTH 111.3](#)
- [ARCH 112.3](#)
- [BIOL 120.3](#)
- [BIOL 121.3](#)
- [GEOL 121.3](#)
- [GEOL 122.3](#)

Senior course requirements:

- [BIOL 222.3](#) (formerly BIOL 205)
- [BIOL 224.3](#) or [P BIO 230.3](#)
- [GEOL 206.3](#)
- [GEOL 245.3](#)
- [GEOL 247.3](#)

Choose 33 credit units to be selected from Categories A, B, C, and D, such that at least 18 credit units are chosen at the 300-400 level, of which at least 12 credit units must be at the 400-level. Students must complete a minimum of 6 credit units from each of Categories A, B, and C.

Category A

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

- [ARCH 250.3](#)
- [ARCH 251.3](#)
- [ARCH 270.3](#)
- [ARCH 361.6](#)
- [ARCH 458.6](#)
- [ARCH 459.3](#)
- [ARCH 462.3](#)
- [ARCH 470.3](#)
- [ARCH 471.3](#)

Category B

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

- [BIOL 226.3](#) (formerly BIOL 211)
- [BIOL 228.3](#) (formerly BIOL 253)

- [BIOL 302.3](#) (formerly BIOL 263)
- [BIOL 323.3](#)
- [BIOL 324.3](#)
- [BIOL 325.3](#)
- [BIOL 326.3](#)
- [BIOL 361.3](#)
- [BIOL 451.3](#)
- [BIOL 455.3](#)
- [BIOL 458.3](#)

Category C

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

- [GEOL 308.3](#)
- [GEOL 343.3](#)
- [GEOL 442.3](#)
- [GEOL 446.3](#)
- [GEOL 447.3](#)
- [GEOL 448.3](#)
- [GEOL 450.3](#)

Category D

- [GEOL 490.3](#)
- [GEOL 492.6](#)
- [P BIO 489.6](#)

Regional and Urban Planning

Minor program revisions:

Bachelor of Arts Honours and Four-year in Regional and Urban Planning

Mark-up of changes approved in the October Challenge, in the new Type B template.

Bachelor of Arts Honours (B.A. Honours)

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

B3 Cognate Requirement (21 credit units)

Junior course requirements:

- [ECON 111.3](#)
- [POLS 111.3](#) (see Note 1 below)
- [SOC 111.3](#) or [SOC 112.3](#) (see Note 2 below)

Senior course requirements (12 credit units):

Students must complete one of the following streams of concentration:

Communities

- PLAN 441.3

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

- CE 329.3 (see Note 3 below)
- CE 467.3 (see Note 3 below)
- **GEOG 348.3**
- INTS 201.3
- PLAN 350.3
- PLSC 235.3
- SOC 202.3
- SOC 203.3
- SOC 206.3
- SOC 214.3
- ~~SOC 217.3~~
- SOC 309.3
- SOC 321.3
- SOC 402.3
- SOC 409.3
- ~~WGST 235.3~~
- ~~WGST 335.3~~

Design

- PLAN 446.3

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

- ART 111.6
- ART 112.6
- ART 136.3
- ART 141.3
- ART 151.3
- ART 152.3
- ART 161.3
- **ART 230.3**
- **ART 231.3**
- **ART 235.3**
- **ART 236.3**
- **ART 330.3**
- **ART 331.3**
- INTS 111.3

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

- ARTH 253.3
- ARTH 255.3

- ARTH 257.3
- ARTH 260.3
- ~~ARTH 261.3~~
- ~~ARTH 324.3~~
- ARTH 306.3
- ARTH 325.3
- ARTH 329.3
- CLAS 240.3
- CLAS 242.3
- ~~GEOG 340.3~~

Environment

- PLAN 329.3

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

- ECON 275.3
- ECON 277.3
- ENVE 381.3
- ENVS 201.3
- GEOG 235.3
- GEOG 322.3
- GEOG 385.3
- GEOG 386.3
- GEOG 420.3
- PLSC 235.3
- RRM 312.3
- SOC 202.3

Indigenous and Northern

- PLAN 445.3

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

- GEOG 150.3
- INDG 210.3
- INDG 212.3
- INDG 214.3
- INDG 215.3
- INDG 220.3
- INDG 221.3
- INDG 230.3
- INDG 255.3
- INDG 256.3
- INDG 261.3
- INDG 262.3
- INDG 264.3

- INDG 265.3
- ~~INDG 271.3~~
- INDG 273.3
- INDG 281.3
- INDG 331.3
- INDG 340.3
- INDG 351.3
- INDG 373.3
- INDG 410.3
- INDG 430.3
- POLS 222.3
- POLS 322.3
- POLS 323.3
- POLS 422.3
- RRM 312.3

Planning Touchstones

- PLAN 329.3
- PLAN 441.3
- PLAN 445.3
- PLAN 446.3

B4 Major Requirement (57 credit units)

- AREC 432.3 or ECON 347.3 or ECON 348.3
- ECON 211.3
- GEOG 222.3
- GEOG 240.3
- GEOG 280.3
- ~~INCC 210.3 or ART 235.3 or ART 236.3~~
- PLAN 341.3
- ~~PLAN 342.3~~
- PLAN 343.3
- PLAN 346.3
- **PLAN 360.3**
- PLAN 390.3
- PLAN 395.3
- PLAN 442.3
- PLAN 490.3
- PLAN 495.3
- POLS 306.3
- SOC 204.3 or SOC 206.3

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

- ~~INCC 210.3~~
- **ART 230.3**
- **ART 231.3**

- [ART 235.3](#)
- [ART 236.3](#)

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

- COMM 104.3
- EPSE 441.3
- GE 210.3
- PLSC 214.3
- PSY 233.3
- SOC 225.3
- STAT 242.3
- STAT 244.3
- STAT 245.3
- STAT 246.3

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

- POLS 225.3
- POLS 226.3
- POLS 328.3
- POLS 425.3

College of Education – November 2019 University Course Challenge

The curricular revisions listed below were approved by the College of Education Faculty Council on Friday, November 1, 2019 and are now submitted to the University Course Challenge for approval.

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

Minor program revision:

- To add EDST 322.3: Field Experience Relational Curriculum Making in Practice, Planning, Adapting and Assessing as a “Prerequisite or Corequisite” for EADM/ECUR/EPSE/EFDT 411.3 effective 2020-2021.

EADM 411.3/ECUR 411.3/EPSE 411.3/EFDT 411.3

Inquiry Project and Community Learning Field Experience

Students will develop an independent or interdependent inquiry project connected with their on-campus and field study experiences. Students will be facilitated in developing understanding approaches to inquiring appropriate to questions they wish to address and will be encouraged to organize an inter-professional community-learning field experience through which they will develop positive attitudes toward community partnerships in education and develop skills related to community engagement and community-based learning.

Prerequisite(s): Students pursuing the B.Ed. Direct Entry Program must complete EFDT 101.3; ECUR 163.3 or ECUR 164.3 or ECUR 165.3; EFDT 265.3 or ECUR 265.3; EPSE 202.3.

Prerequisite(s) or Corequisite(s): EDST 322.3.

Note: Students with credit for EDUC 411, EADM 411, ECUR 411, or EPSE 411 will not receive credit for this course.

Minor program revision:

Bachelor of Education – Social Sciences/Social Studies Teaching Areas 1 and 2

- To update the list of acceptable requirements for the Indigenous Studies component of the Social Sciences/Social Studies teaching areas for all Bachelor of Education program routes, including the Indian Teacher Education Program (ITEP) and the Saskatchewan Urban Native Teacher Education Program (SUNTEP – Saskatoon and PA).

Course and Program Catalogue Entries

Early/Middle Years

Teaching Area 1 – Social Sciences/Social Studies

Teacher candidates may choose Social Sciences/Social Studies OR Indigenous Studies as a Teaching Area, but cannot choose both. Any 100-level course taken after the first 6 credit units will be counted as a senior course.

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

Choose 6 credit units from the following Indigenous Studies courses:

- INDG — 100-Level, 200-Level, 300-Level or 400-Level
- **HIST 193.3: History Matters Topics in Canadian History***
**with the topic [Turtle Island: A History of North America's Ancient Civilizations](#)*
- **HIST 264.3: Native Newcomer Relations in Canada to 1880**
- **HIST 265.3: Native Newcomer Relations in Canada 1880 to Present**
- **HIST 315.3: Indigenous Health History**
- **KIN 306.3: Introduction to Indigenous Wellness**
- [POLS 222.3](#) Indigenous Governance and Politics
- **POLS 322.3: First Nations Management and Administrative Systems**
- **POLS 323.3: First Nations Policies and Programs**
- ~~**SOC 203.3 Race and Ethnic Relations in Canada**~~
- [SOC 219.3](#) Indigenous Peoples and Justice in Canada
- **SOC 319.3: Indigenous People in Urban Areas**
- [SOC 341.3](#) Institutional Racism and Indigenous People

Choose 6 credit units from the following History courses:

- HIST — 100-Level, 200-Level, 300-Level or 400-Level
- [INDG 212.3](#) Nehiyaw Tapsinowin Cree Cultural Histories
- [INDG 262.3](#) Aboriginal Narratives of Historical Memory
- [INDG 280.6](#) Metis History in Western Canada
- [INDG 281.3](#) First Nations History in Western Canada

Choose 6 credit units from the following Social Sciences/Social Studies courses:

- ANTH — 100-Level, 200-Level, 300-Level or 400-Level
- CMRS — 100-Level, 200-Level, 300-Level or 400-Level
- CTST — 100-Level, 200-Level, 300-Level or 400-Level
- ECON — 100-Level, 200-Level, 300-Level or 400-Level
- HIST — 100-Level, 200-Level, 300-Level or 400-Level
- INDG — 100-Level, 200-Level, 300-Level or 400-Level

- IS — 100-Level, 200-Level, 300-Level or 400-Level
- PHIL — 100-Level, 200-Level, 300-Level or 400-Level
- POLS — 100-Level, 200-Level, 300-Level or 400-Level
- PSY — 100-Level, 200-Level, 300-Level or 400-Level
- RLST — 100-Level, 200-Level, 300-Level or 400-Level
- SOC — 100-Level, 200-Level, 300-Level or 400-Level
- WGST — 100-Level, 200-Level, 300-Level or 400-Level
- [CLAS 110.3](#) Greek Civilization
- [CLAS 111.3](#) Roman Civilization
- [CLAS 220.3](#) Daily Life in Ancient Greece and Rome
- [CLAS 225.3](#) Women in Antiquity
- [CLAS 240.3](#) Ancient Art and Architecture I Bronze Age to Classical Greece
- [CLAS 242.3](#) Ancient Art and Architecture II Graeco Roman World
- [CLAS 247.3](#)
- [CLAS 248.3](#)
- [GEOG 130.3](#) Environment Health and Planning
- [GEOG 202.3](#) Regional Geography of Canada
- [GEOG 204.3](#) Geography of the Prairie Region
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 340.3](#)
- [GEOG 364.3](#) Geography of Environment and Health
- [GEOG 381.3](#) Development in the Canadian North Issues and Challenges
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 386.3](#) Environmental Impact Assessment
- [GEOG 491.3](#) Research Topics in Human Geography
- [PLAN 341.3](#) Urban Planning
- [PLAN 342.3](#) Demographic Analysis in Planning
- [PLAN 343.3](#) Legal Issues in Planning
- [PLAN 346.3](#) Introduction to Urban Design
- [PLAN 350.3](#) Transportation Planning and Geography
- [PLAN 392.3](#) Early History of Geographic and Planning Thought
- [PLAN 442.3](#) Regional Planning
- [PLAN 446.3](#) Advanced Urban Design Studio

Early/Middle Years

Teaching Area 2 – Social Sciences/Social Studies

Choose 3 credit units from the following Indigenous Studies courses:

- INDG — 100-Level, 200-Level, 300-Level or 400-Level
- HIST 193.3: History Matters Topics in Canadian History*
*with the topic *Turtle Island: A History of North America's Ancient Civilizations*
- HIST 264.3: Native Newcomer Relations in Canada to 1880
- HIST 265.3: Native Newcomer Relations in Canada 1880 to Present
- HIST 315.3: Indigenous Health History
- KIN 306.3: Introduction to Indigenous Wellness
- [POLS 222.3](#) Indigenous Governance and Politics
- POLS 322.3: First Nations Management and Administrative Systems
- POLS 323.3: First Nations Policies and Programs
- ~~SOC 203.3 Race and Ethnic Relations in Canada~~
- [SOC 219.3](#) Indigenous Peoples and Justice in Canada
- SOC 319.3: Indigenous People in Urban Areas
- [SOC 341.3](#) Institutional Racism and Indigenous People

Choose 3 credit units from the following History courses:

- HIST — 100-Level, 200-Level, 300-Level or 400-Level
- [INDG 212.3](#) Nehiyaw Tapsinowin Cree Cultural Histories
- [INDG 262.3](#) Aboriginal Narratives of Historical Memory
- [INDG 280.6](#) Metis History in Western Canada
- [INDG 281.3](#) First Nations History in Western Canada

Choose 6 credit units from the following Social Sciences/Social Studies courses:

- ANTH — 100-Level, 200-Level, 300-Level or 400-Level
- CMRS — 100-Level, 200-Level, 300-Level or 400-Level
- CTST — 100-Level, 200-Level, 300-Level or 400-Level
- ECON — 100-Level, 200-Level, 300-Level or 400-Level
- HIST — 100-Level, 200-Level, 300-Level or 400-Level
- INDG — 100-Level, 200-Level, 300-Level or 400-Level
- IS — 100-Level, 200-Level, 300-Level or 400-Level
- PHIL — 100-Level, 200-Level, 300-Level or 400-Level
- POLS — 100-Level, 200-Level, 300-Level or 400-Level
- PSY — 100-Level, 200-Level, 300-Level or 400-Level
- RLST — 100-Level, 200-Level, 300-Level or 400-Level
- SOC — 100-Level, 200-Level, 300-Level or 400-Level
- WGST — 100-Level, 200-Level, 300-Level or 400-Level
- [CLAS 110.3](#) Greek Civilization

- [CLAS 111.3](#) Roman Civilization
- [CLAS 220.3](#) Daily Life in Ancient Greece and Rome
- [CLAS 225.3](#) Women in Antiquity
- [CLAS 240.3](#) Ancient Art and Architecture I Bronze Age to Classical Greece
- [CLAS 242.3](#) Ancient Art and Architecture II Graeco Roman World
- [CLAS 247.3](#)
- [CLAS 248.3](#)
- [GEOG 130.3](#) Environment Health and Planning
- [GEOG 202.3](#) Regional Geography of Canada
- [GEOG 204.3](#) Geography of the Prairie Region
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 340.3](#)
- [GEOG 364.3](#) Geography of Environment and Health
- [GEOG 381.3](#) Development in the Canadian North Issues and Challenges
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 386.3](#) Environmental Impact Assessment
- [GEOG 491.3](#) Research Topics in Human Geography
- [PLAN 341.3](#) Urban Planning
- [PLAN 342.3](#) Demographic Analysis in Planning
- [PLAN 343.3](#) Legal Issues in Planning
- [PLAN 346.3](#) Introduction to Urban Design
- [PLAN 350.3](#) Transportation Planning and Geography
- [PLAN 392.3](#) Early History of Geographic and Planning Thought
- [PLAN 442.3](#) Regional Planning
- [PLAN 446.3](#) Advanced Urban Design Studio

Secondary

Teaching Area 1 – Social Sciences/Social Studies

Choose 6 credit units from the following Indigenous Studies courses:

- INDG — 100-Level, 200-Level, 300-Level or 400-Level
- HIST 193.3: History Matters Topics in Canadian History*
*with the topic *Turtle Island: A History of North America's Ancient Civilizations*
- HIST 264.3: Native Newcomer Relations in Canada to 1880
- HIST 265.3: Native Newcomer Relations in Canada 1880 to Present
- HIST 315.3: Indigenous Health History
- KIN 306.3: Introduction to Indigenous Wellness
- [POLS 222.3](#) Indigenous Governance and Politics
- POLS 322.3: First Nations Management and Administrative Systems
- POLS 323.3: First Nations Policies and Programs
- ~~SOC 203.3: Race and Ethnic Relations in Canada~~
- [SOC 219.3](#) Indigenous Peoples and Justice in Canada
- SOC 319.3: Indigenous People in Urban Areas
- [SOC 341.3](#) Institutional Racism and Indigenous People

Choose 6 credit units from the following History courses:

- HIST — 100-Level, 200-Level, 300-Level or 400-Level
- [INDG 212.3](#) Nehiyaw Tapsinowin Cree Cultural Histories
- [INDG 262.3](#) Aboriginal Narratives of Historical Memory
- [INDG 280.6](#) Metis History in Western Canada
- [INDG 281.3](#) First Nations History in Western Canada

Choose 12 credit units from the following Social Sciences/Social Studies courses:

- ANTH — 100-Level, 200-Level, 300-Level or 400-Level
- CMRS — 100-Level, 200-Level, 300-Level or 400-Level
- CTST — 100-Level, 200-Level, 300-Level or 400-Level
- ECON — 100-Level, 200-Level, 300-Level or 400-Level
- HIST — 100-Level, 200-Level, 300-Level or 400-Level
- INDG — 100-Level, 200-Level, 300-Level or 400-Level
- IS — 100-Level, 200-Level, 300-Level or 400-Level
- PHIL — 100-Level, 200-Level, 300-Level or 400-Level
- POLS — 100-Level, 200-Level, 300-Level or 400-Level
- PSY — 100-Level, 200-Level, 300-Level or 400-Level
- RLST — 100-Level, 200-Level, 300-Level or 400-Level
- SOC — 100-Level, 200-Level, 300-Level or 400-Level
- WGST — 100-Level, 200-Level, 300-Level or 400-Level
- [CLAS 110.3](#) Greek Civilization

- [CLAS 111.3](#) Roman Civilization
- [CLAS 220.3](#) Daily Life in Ancient Greece and Rome
- [CLAS 225.3](#) Women in Antiquity
- [CLAS 240.3](#) Ancient Art and Architecture I Bronze Age to Classical Greece
- [CLAS 242.3](#) Ancient Art and Architecture II Graeco Roman World
- [CLAS 248.3](#)
- [GEOG 130.3](#) Environment Health and Planning
- [GEOG 202.3](#) Regional Geography of Canada
- [GEOG 204.3](#) Geography of the Prairie Region
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 340.3](#)
- [GEOG 364.3](#) Geography of Environment and Health
- [GEOG 381.3](#) Development in the Canadian North Issues and Challenges
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 386.3](#) Environmental Impact Assessment
- [GEOG 491.3](#) Research Topics in Human Geography
- [PLAN 341.3](#) Urban Planning
- [PLAN 342.3](#) Demographic Analysis in Planning
- [PLAN 343.3](#) Legal Issues in Planning
- [PLAN 346.3](#) Introduction to Urban Design
- [PLAN 350.3](#) Transportation Planning and Geography
- [PLAN 392.3](#) Early History of Geographic and Planning Thought
- [PLAN 442.3](#) Regional Planning
- [PLAN 446.3](#) Advanced Urban Design Studio

Secondary

Teaching Area 2 – Social Sciences/Social Studies

Choose 6 credit units from the following Indigenous Studies courses:

- INDG — 100-Level, 200-Level, 300-Level or 400-Level
- HIST 193.3: History Matters Topics in Canadian History*
*with the topic *Turtle Island: A History of North America's Ancient Civilizations*
- HIST 264.3: Native Newcomer Relations in Canada to 1880
- HIST 265.3: Native Newcomer Relations in Canada 1880 to Present
- HIST 315.3: Indigenous Health History
- KIN 306.3: Introduction to Indigenous Wellness
- [POLS 222.3](#) Indigenous Governance and Politics
- POLS 322.3: First Nations Management and Administrative Systems
- POLS 323.3: First Nations Policies and Programs
- ~~SOC 203.3: Race and Ethnic Relations in Canada~~
- [SOC 219.3](#) Indigenous Peoples and Justice in Canada
- SOC 319.3: Indigenous People in Urban Areas
- [SOC 341.3](#) Institutional Racism and Indigenous People

Choose 6 credit units from the following History courses:

- HIST — 100-Level, 200-Level, 300-Level or 400-Level
- [INDG 212.3](#) Nehiyaw Tapsinowin Cree Cultural Histories
- [INDG 262.3](#) Aboriginal Narratives of Historical Memory
- [INDG 280.6](#) Metis History in Western Canada
- [INDG 281.3](#) First Nations History in Western Canada

Choose 3 credit units from the following Social Sciences/Social Studies courses:

- ANTH — 100-Level, 200-Level, 300-Level or 400-Level
- CMRS — 100-Level, 200-Level, 300-Level or 400-Level
- CTST — 100-Level, 200-Level, 300-Level or 400-Level
- ECON — 100-Level, 200-Level, 300-Level or 400-Level
- HIST — 100-Level, 200-Level, 300-Level or 400-Level
- INDG — 100-Level, 200-Level, 300-Level or 400-Level
- IS — 100-Level, 200-Level, 300-Level or 400-Level
- PHIL — 100-Level, 200-Level, 300-Level or 400-Level
- POLS — 100-Level, 200-Level, 300-Level or 400-Level
- PSY — 100-Level, 200-Level, 300-Level or 400-Level
- RLST — 100-Level, 200-Level, 300-Level or 400-Level
- SOC — 100-Level, 200-Level, 300-Level or 400-Level
- WGST — 100-Level, 200-Level, 300-Level or 400-Level
- [CLAS 110.3](#) Greek Civilization

- [CLAS 111.3](#) Roman Civilization
- [CLAS 220.3](#) Daily Life in Ancient Greece and Rome
- [CLAS 225.3](#) Women in Antiquity
- [CLAS 240.3](#) Ancient Art and Architecture I Bronze Age to Classical Greece
- [CLAS 242.3](#) Ancient Art and Architecture II Graeco Roman World
- [CLAS 247.3](#)
- [CLAS 248.3](#)
- [GEOG 130.3](#) Environment Health and Planning
- [GEOG 202.3](#) Regional Geography of Canada
- [GEOG 204.3](#) Geography of the Prairie Region
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 340.3](#)
- [GEOG 364.3](#) Geography of Environment and Health
- [GEOG 381.3](#) Development in the Canadian North Issues and Challenges
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 386.3](#) Environmental Impact Assessment
- [GEOG 491.3](#) Research Topics in Human Geography
- [PLAN 341.3](#) Urban Planning
- [PLAN 342.3](#) Demographic Analysis in Planning
- [PLAN 343.3](#) Legal Issues in Planning
- [PLAN 346.3](#) Introduction to Urban Design
- [PLAN 350.3](#) Transportation Planning and Geography
- [PLAN 392.3](#) Early History of Geographic and Planning Thought
- [PLAN 442.3](#) Regional Planning
- [PLAN 446.3](#) Advanced Urban Design Studio



College of Engineering Submission to University Course Challenge

November 2019

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

Contact: Aleksandra Pajic (Aleksandra.pajic@usask.ca)

Environmental Engineering

Minor Program Revisions:

- a) **Remove BLE 313.3** Instrumentation as a required class in the ENVE program.
Rationale: Mechanical Engineering plans to discontinue BLE 313.3. In consideration of the resources required to independently develop and offer a new course on environmental instrumentation, the ENVE instructors would instead prefer to incorporate relevant materials into existing courses.
- b) **Remove EE 204.3:** Basic Electronics and Electrical Power as a required class in the ENVE program.
Rationale: This is a prerequisite course for BLE 313. The information most relevant to ENVE students (basic electrical circuits and power concepts) are effectively being delivered in the recently revamped PHYS 155 and will continue to be well covered in the 1st year redesign.
- c) **Remove CE 201.3** as a required class in the ENVE program.
Rationale: Course would be effectively replaced by addition of CE 202. ENVE students currently take CE 201.0 Elements of CAD (offered through Sask. Polytechnic), but it has been noted that this course is insufficient.
- d) **Add CE 202.3:** Spatial Analysis and Engineering Drawings as a required course in the ENVE program, to be offered in Y3T1.
Rationale: Taking CE 202.3 would better prepare students for their design capstone project and provide the level of drafting competency that employers are expecting.
- e) **Create a new course, ENVE 395.3:** Design Project, to be cross-listed with CE 295.3 Design Project. Add ENVE 395.3: Design Project as a required course in the ENVE program, to be offered in Y3T2. (see new course proposal below)
- f) **Move RCM 300.3** from Y3T2 to Y3T1 (ENVE program).
Rationale: This is to allow RCM300 to be taken as a prerequisite for CE 295.
- g) **Move the complementary studies elective** from Y3 to Y4 (ENVE program).



Rationale: Required to make room for CE 202.

Year 2 (38 credit units)

Fall Term

- CE 212.3
- ENVE 201.3
- GE 210.3
- GEOE 218.3
- MATH 223.3

Winter Term

- CHE 210.3
- CMPT 141.3
- ENVE 212.3
- GE 213.3
- MATH 224.3

Spring Term

- CE 271.2 (may be completed in year 2 or year 3)

Fall Term or Winter Term

- ~~• CE 201.0 (may be completed in year 2 or year 3)~~

Choose 6 credit units from the following:

- BIOL 120.3
- CHEM 115.3
- GEOL 121.3

Students must complete BIOL 120, CHEM 115 and GEOL 121 by the end of Year 2.

Year 3 (36 credit units)

Fall Term

- ~~• 3 credit units Complementary Studies Elective~~
- CE 202.3
- CE 315.3
- CE 318.3
- CE 328.3
- CHEM 250.3



- RCM 300.3
- ~~EE 204.3~~

Winter Term

- CE 319.3
- CE 327.3
- CHE 223.3
- ENVE 381.3
- ENVE 395.3
- GE 348.3
- ~~RCM 300.3~~

Year 4 (36 credit units)

Fall Term

- CE 320.3
- ENVE 482.3

Winter Term

- ~~BLE 313.3~~
- CHE 454.3

Fall Term and Winter Term

- ENVE 495.6

Fall Term or Winter Term

- 3 credit units Environmental Engineering Electives (Group A or B)
- 3 credit units Environmental Science Elective
- 3 credit units Senior Humanities or Social Science Elective
- 6 credit units Environmental Engineering Electives (Group A)
- GE 449.3
- 3 credit units Complementary Studies Elective

New Course Proposal:

ENVE 395.3 Design Project (3L)

A design course in which the principles of design are learned by application to a suitable environmental engineering project. The course requires that the students work in groups to achieve the desired outcome. Group interaction and performance is monitored throughout. Guest lectures from various industrial and other representatives will be provided to enhance the student's design experience.



This course is to be cross-listed with CE 295.3 Design Project, which is a required course for all students in the Civil Engineering and Geological Engineering programs. The cross-listed course will be coordinated by a single faculty member from the Civil, Geological and Environmental Engineering (CGEE) department, and will be supported by faculty advisors from the CGEE department. The courses will share lectures and practicum sessions. The primary distinction will be that ENVE 395 students will work on design problems that are specific to the field of Environmental Engineering.

Rationale for introducing this course: Students currently in the Environmental Engineering program have limited exposure to the design process before they start their capstone design course. When compared to CE and GEOE students in 495 courses, both students and faculty have noted that the ENVE students are less prepared for complex design problems.

Geological Engineering- Mining Engineering Option

- a) **Remove the requirement of specified Group B** electives from the Mining Engineering Option. A group B elective would still be required as part of the Geological Engineering degree.

Reduce the number of required credit units in the Geological Engineering Mining Option from 18 to 15 credit units. The overall credit units for the B.E. in Geological Engineering remain the same.

Rationale: the Department is finding it difficult to get students into these courses.

Mining Engineering Option

An "Option" within the College of Engineering is a prescribed set of courses that provides a concentration of specialized training in one particular field of study in the Bachelor of Science in Engineering (B.E.) program. Options are approved at the College level but are unique to Departments within the College, consisting of at least ~~18~~ 15 credit units, none of which are core courses taken by all students within the Department.

This option equips students pursuing the Bachelor of Science in Engineering (B.E.) Geological Engineering program with a foundational knowledge of mining operations. Curricular emphasis is placed on process engineering, mine design, excavation techniques, and mineral deposits. Graduates of this option are anticipated to have an interest in the mining operations and are likely to pursue careers in the associated industry.

Required Courses (~~18~~ 15 credit units)

- GEOE 377.3 (replaces a Group C elective)
- GEOE 380.3 (replaces a Group C elective)
- GEOE 430.3 (replaces a Group C elective)
- GEOE 431.3 (replaces a Group C elective)
- ~~GEOE 384.3 or GEOE 334.3 (replaces a Group B elective)~~
- GEOL 465.3 (replaces a Group A elective)



For Information

The following items have been approved by the Undergraduate Academic Programs Committee in the College of Engineering and are now being submitted to the University Course Challenge for information.

Mechanical Engineering

- a) Change the term descriptor of ME 462.3: Structure and Properties of Polycrystalline Materials, from “Term 2 (Technical Elective)” to “Term 1 or Term 2 (Technical Elective)”, effective 2019-05.

Technical Electives

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

Term 1

- GEOE 377.3
- GEOE 466.3

Term 2

- BLE 313.3
- CHE 464.3
- EE 471.3
- GEOE 380.3
- ME 460.3
- ME 461.3
- ~~ME 462.3~~
- ME 463.3
- ME 471.3
- ME 472.3
- ME 475.3
- ME 477.3
- ME 478.3

Term 1 or Term 2

- CHE 453.3
- ME 450.3
- ME 473.3
- **ME 462.3**
- approved senior course(s) from science or engineering

College of Kinesiology, University Course Challenge, November 2019

The following new course was approved by the College of Kinesiology Faculty Council on October 24th, 2019, and is being submitted here for approval:

New Course Proposal

KIN 324.3: Athletics (3L)

This course will offer student's the opportunity to increase their understanding of the coaching aspects and physical requirements within the sport of Athletics (Track and Field). The course will center on expanding one's understanding of coaching; combining elements of coaching theory and science, technical event skill development, and practical applications of the sport.

Prerequisite: KIN 121 and KIN 122 or KIN 146

Rationale for introducing this course. The College of Kinesiology is in the process of moving away from the 2 credit KINA courses. Not only does the new 3 credit Athletics course align better with college program requirements, it also allows for an enhanced theoretical foundation in athletics, experiential learning, and an opportunity for student community engagement. As well, students completing Kin 324.3 may obtain credit for the NCCP Athletics Sport Coach Workshop.

Contact: Keeran Wagner

College of Law, November 2019 University Course Challenge

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

New Course **LAW 426.3 Advanced Secured Transactions** **1/2 (2S-1R)**
In this seminar students are given the opportunity to explore features of personal property security law and real property security law that are not addressed or only superficially addressed in survey courses in these areas.
Prerequisite: Law 303
Note: Law 307 is recommended

Rationale To add to and complement the existing array of course offerings.
Contact Person Instructor – Clayton Bangsund, telephone: (306) 966-5884
Consultation Consultation within the College
Approval Date **November 1, 2019**

New Course **LAW 315.3 Entertainment Law** **1/2 (3L)**
This course provides an overview of the key areas relevant to entertainment law, including: artist rights, copyright infringement, fair dealing, negotiation, trade-marks in entertainment, talent and guild agreements, collective bargaining, publicity rights, defamation, entertainment contracts, and emerging entertainment law issues in the digital age. The course will provide examples from film, television, music, visual art, live performance and other areas. Some classes may involve guest speakers. Students will have an opportunity to consider and discuss both practical and theoretical issues regarding entertainment law.
Prerequisites: None

Rationale Entertainment Law in the age of social media, internet, technology, plays an important role in the music, art and culture, theatre, and video gaming industries. The introduction of this course as a permanent course at the college of law will equip Law Student interested in practicing in the entertainment, business, and areas labour law areas - the course enriches opportunities for creatives to develop in our communities.

Contact Person Instructor – Jamesy Patrick
Consultation Consultation within the College
Approval Date **November 1, 2019**

New Course	<p>LAW 443.3 Indigenous Peoples and the Criminal Process 1/2 (2S-1R)</p> <p>This seminar will be designed to give exposure to a myriad of subtopics relating generally to the relationship between the criminal justice system and Indigenous people of Canada. From Policing to Sentencing Indigenous people have been overrepresented and mistreated by the justice system at all stages. Certainly there is significant alienation from police and courts. The Supreme Court of Canada has acknowledged that the system has been systemically racist in the sentencing decisions of Gladue and Ipeelee. Indeed, Gladue, while appearing to have not had much of an impact, is being used in many stages of the criminal justice system beyond sentencing. The seminar will be designed to explore the myriad of reasons for the alienation of Indigenous peoples and search for solutions thereto. The seminar will provide readings in a wide range of historical and modern sources to provide a strong grounding for the student in relevant topics.</p>
Rationale	<p>Prerequisite: None. Law 423 and Law 425 are recommended</p> <p>Recent events have proven that there are significant issues that need to be addressed to stop the injustice being inflicted on Indigenous peoples by the criminal justice system. This was the focus of several of the recommendations of the TRC in 2015 and many issues were further brought to light by several high profile trials in 2017-18. This seminar will be designed to explore the myriad of reasons and frustrations with the criminal justice system by Indigenous people. New developments, especially relating to the over-incarceration of Indigenous offenders, will be a major focus.</p>
Contact Person	Instructors– Glen Luther telephone: (306) 966-5887 and Hilary Peterson (e-mail: hilary.peterson@usask.ca)
Consultation	Consultation within the College
Approval Date	November 1, 2019

New Course	<p>LAW 320.3 Regulation of Professions 1/2 (3L)</p> <p>This course will provide in-depth coverage of legal issues that arise in context to professional regulation in Canada. Topics will include unauthorized practice, registration, investigation, quality assurance, marketing, mobility, and discipline. The course will address how professional regulation intersects with other areas of the law, including administrative law, human rights, and the Charter.</p>
Rationale	<p>Prerequisites: None</p> <p>Whereas the College of Law’s existing Juris Doctor curriculum offers courses on labour and employment law and legal ethics (i.e. “professional responsibility”), this course is unique in focusing on the common principles governing the regulation of self-governing professions across Canada.</p>

Many lawyers are involved in the investigation, prosecution, or defence of members of their own profession or other self-regulated professions in this common practice area for litigators. Each province hosts several dozen self-regulating professions with their own specialized statutory regimes and tribunals for governing the registration, investigation, quality assurance, fitness to practice, and discipline of their members. At the same time, there are many common features shared among the self-regulating professions that have given rise to a rich and vibrant jurisprudence, as set out in several Canadian looseleaves, textbooks, and blogs dedicated to this topic.

The law of professional regulation allows for deep engagement with administrative law principles, as well as internal trade agreements, human rights, and the Charter. This course also canvasses long-standing controversies over the theory and origins of professional self-regulation in Canada, including conflicts between the public interest and the interests of the profession. These broader debates have been the subject of multiple commissions of inquiry and extensive academic treatment in Canada as well as internationally. They have also led to the dismantling of many self-governing professions in other common law countries, whereas Canadian jurisdictions have instead expanded the number of professions that benefit from the privilege of self-regulation. These broader debates provide an important theoretical and political backdrop to the discrete topics explored throughout the course.

Contact Person
Consultation
Approval Date

Instructors– Benjamin Ralston (e-mail: benjamin.ralston@usask.ca)
Consultation within the College
November 1, 2019