



## Academic Programs Committee of Council

### University Course Challenge

**Scheduled posting: August 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 Engineering  
College of Graduate and Postdoctoral Studies  
School of Environment and Sustainability  
Western College of Veterinary Medicine

**Approval:**      Date of circulation: August 17, 2023  
                            Date of effective approval if no challenge received: August 31, 2023

**Next scheduled posting:**

The next scheduled posting will be September 15, 2023, with a submission deadline of **September 13, 2023**. Urgent items can be posted on request.

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

### **University Course Challenge – August 2023**

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

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

### **Item for Information - Correction**

#### **ARCH 403.3 relabeled/numbered to ANTH ~~405.3~~ 406.3**

Rationale: As part of the implemented department name change and the upcoming program name changes, the (now) Department of Anthropology will not offer undergraduate courses with the ARCH label after 2023-24. The details of these changes were included in the package that was approved by the Academic Programs Committee of Council in November 2022. In the package there was an error in the new number chosen for the relabel/renumber of ARCH 403.3 (Analysis and Public Exhibition of Cultural Artifacts). ANTH “405” is not an available number, and therefore the course will instead be changed to ANTH 406.

## **College of Graduate Studies and Research – August 2023**

### **Item for Information**

The following small correction is being made to a course modification in the June 2023 University Course Challenge. Changes were approved for SOC 803 in June 2023, but were meant for SOC 809, not SOC 803. The correction is noted in red, as follows:

### **Sociology Course Modification:**

**SOC 809.3** ~~SOC 803.3~~ – Sociology of Development

Current note: None

Proposed note: This course is a hybrid course with SOC 409, and this course cannot be taken for credit after previously taking SOC 409

**Rationale:** The joint offering of 400-level and 800-level courses allows the Department of Sociology to offer a wider range of graduate courses on a more frequent basis. Graduate students will be asked to submit longer autobiographies and reflection papers. Likewise, their research paper will be longer, and more references will be expected. They will be asked to pay more attention to theory and methodologies both in this paper and in their reflection papers and class presentations and will be marked harder. Graduate students be invited to engage more one-on-one with the instructor for discussions about their major paper and other work.

### College of Engineering – Item for Information

The removal of CMPT 332.3 as a requirement from the B.E. in Computer Engineering was approved in June 2023. To maintain the overall credit units for the program, 3 more credit units of focus areas in Year 3 are required. This was simply missed being indicated in June and is being noted here in blue for information.

### Bachelor of Science in Engineering (B.E.) - Computer Engineering (144 credit units)

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

All Engineering programs have a common first year.

#### Year 2 (34 credit units)

##### Fall Term

- [CMPT 214.3](#) Programming Principles and Practice
- [CMPT 270.3](#) Developing Object-Oriented Systems
- [EE 205.1](#) Safety and Stewardship in Electrical and Computer Engineering
- [EE 232.3](#) Digital Electronics
- [EE 265.3](#) Discrete Time Signals and Systems
- [MATH 223.3](#) Calculus III for Engineers

##### Winter Term

- [CMPT 280.3](#) Intermediate Data Structures and Algorithms
- [EE 216.3](#) Probability Statistics and Numerical Methods
- [EE 221.3](#) Analog Electronics
- [EE 271.3](#) Materials and Heat Transport in Electrical Engineering
- [EP 214.3](#) Analog Signals and Systems
- [MATH 224.3](#) Calculus IV for Engineers

#### Year 3 (33 credit units)

Focus Areas – Students must complete the Digital Systems Focus Area and one of the Digital Signal Processing and Applications Focus Area or Computer Software Focus Area.

##### Fall Term

- [CME 331.3](#) Microprocessor Based Embedded Systems
- [CME 341.3](#) Logic Design Using FPGAs
- [RCM 200.3](#) Effective Professional Communication

- 3 credit units Digital Systems Focus Area
- 3 credit units Second Focus Area
- 3 credit units Science Elective List 1 or List 2

#### Winter Term

- [CME 334.3](#) Network Architecture and Protocols
- ~~[CMPT 332.3](#) Operating Systems Concepts~~
- [GE 348.3](#) Engineering Economics
- 3 credit units Digital Systems Focus Area
- 3 6 credit units Second Focus Area

#### Year 4 (33 credit units)

##### Fall Term

- 3 credit units Senior Humanities/Social Elective
- 6 credit units Digital Systems Focus Area
- 6 credit units Second Focus Area

##### Winter Term

- [GE 449.3](#) Engineering in Society
- 3 credit units Digital Systems Focus Area
- 3 credit units Second Focus Area
- 3 credit units Complementary Studies Elective

##### Fall Term and Winter Term

6 credit units from the following:

- [CME 495.6](#) Capstone Design Project
- [GE 495.6](#) Technological Innovation Capstone Design Project

#### Focus Areas

Focus Areas – Students must complete Digital Systems Focus Area and one of the Digital Signal Processing and Applications Focus Area or Computer Software Focus Area.

#### Digital Systems

##### Year 3 - Fall Term

- [CME 342.3](#) Introduction to Digital Integrated Circuits and System on Chip

Year 3 - Winter Term

- [CME 332.3](#) Real Time Computing

Year 4 - Fall Term

- [CME 433.3](#) Digital Systems Architecture
- [CME 435.3](#) Verification of Digital Systems

Year 4 - Winter Term

- [CME 466.3](#) Design of an Advanced Digital System

### Digital Signal Processing and Applications

Year 3 - Fall Term

- [EE 362.3](#) Digital Signal Processing

Year 3 - Winter Term

- [EE 365.3](#) Algorithms and Circuits with Finite Precision Arithmetics

### Year 3 – Winter or Fall Term

Choose **3 cu** from this list:

- [CMPT 318.3](#) Data Analytics
- [CMPT 332.3](#) Operating Systems Concepts
- [CMPT 370.3](#) Intermediate Software Engineering

Year 4 - Fall Term

- [EE 456.3](#) Digital Communication
- [EE 461.3](#) Digital Filter Design

Year 4 - Winter Term

- [EE 465.3](#) Design of a DSP System

### Computer Software

Year 3 - Fall Term

- [CMPT 370.3](#) Intermediate Software Engineering

Year 3 - Fall or Winter Term

- 6 credit unit Group B Elective (choose from List B1 or B2)

Year 4 - Fall Term

- [CME 465.3](#) Embedded Machine Learning

Year 4 - Fall or Winter Term

- 6 credit units Group C Elective (choose from List C1 or C2)

### Group B Electives

Choose 6 credit units from B1 or B2

- **List B1**
- [CMPT 318.3](#) Data Analytics
- [CMPT 332.3](#)
- **List B2**
- [CMPT 353.3](#) Full Stack Web Programming
- [CMPT 381.3](#) Implementation of Graphical User Interfaces

### Group C Electives

- List C1
- [CMPT 423.3](#) Machine Learning
- [CMPT 436.3](#) Mobile and Cloud Computing
- [CMPT 481.3](#) Human Computer Interaction
- [CMPT 487.3](#) Image Processing and Computer Vision
- [CMPT 489.3](#) Deep Learning and Applications
- List C2
- [CMPT 432.3](#) Advanced Operating Systems Concepts
- [CMPT 434.3](#) Computer Networks
- [CMPT 438.3](#) Introduction to Computer Security
- [CMPT 470.3](#) Advanced Software Engineering

### Electives

#### Science Elective

#### List 1

- [BIOL 120.3](#) The Nature of Life
- [CHEM 115.3](#) General Chemistry II Chemical Processes
- [GEOL 121.3](#) Earth Processes
- [PHYS 125.3](#) Physics and Technology

## List 2

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

## Complementary Studies Elective

- [ANTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARBC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARCH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CHIN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CLAS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [CMRS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [COMM 201.3](#) Introduction to Financial Accounting
- [COMM 203.3](#) Introduction to Finance
- [COMM 204.3](#) Introduction to Marketing
- [COMM 205.3](#) Introduction to Operations Management
- [COMM 210.3](#) Introduction to Management Accounting
- [COMM 211.3](#) Human Resource Management
- [COMM 229.3](#) Personal Financial Management
- [COMM 304.3](#) Introduction to Business Law
- [COMM 306.3](#) Ethics and Strategic Decision Making
- [COMM 308.3](#) Cost Management Systems
- [COMM 321.3](#) Corporate Financial Reporting I
- [COMM 323.3](#) Corporate Financial Reporting II
- [COMM 329.3](#)
- [COMM 337.3](#) Business Information and Accounting Systems
- [COMM 340.3](#) Introduction to International Business
- [COMM 342.3](#) Organization Structure and Design
- [COMM 343.3](#) Recruitment Selection and Engagement
- [COMM 345.3](#) Business and Public Policy
- [COMM 346.3](#) Technology Commercialization



- [COMM 347.3](#) Indigenous Business in Canada
- [COMM 348.3](#) Leadership
- [COMM 349.3](#) Introduction to Entrepreneurship
- [COMM 352.3](#) Marketing Strategy
- [COMM 354.3](#) Consumer Behaviour
- [COMM 357.3](#) Marketing Research
- [COMM — 100-Level](#)
- [CREE — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ECON 111.3](#) Introductory Microeconomics
- [ECON 114.3](#) Introductory Macroeconomics
- [ECON 211.3](#) Intermediate Microeconomics
- [ECON 214.3](#) Intermediate Macroeconomics
- [ECON 221.3](#) Women and the Economy
- [ECON 223.3](#) Labour Economics
- [ECON 227.3](#) Wage Determination
- [ECON 231.3](#) Co operatives
- [ECON 234.3](#) Economics of Health Care
- [ECON 254.3](#) International Trading System
- [ECON 256.3](#) International Monetary System
- [ECON 270.3](#) Development in Non Industrialized Countries
- [ECON 272.3](#)
- [ECON 275.3](#) Economics of Natural Resources
- [ECON 277.3](#) Economics of the Environment
- [ECON 280.3](#) Classical Economics
- [ENG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [FREN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GE 431.3](#) Engineering Entrepreneurship Capstone
- [GE 450.3](#) Technology Innovation Management
- [GEOG 130.3](#) Environment Health and Planning
- [GEOG 202.3](#) Regional Geography of Canada
- [GEOG 204.3](#) Geography of the Prairie Region
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 280.3](#) Environmental Geography
- [GERM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [GRK — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HEB — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HIST — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [HNDI — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [INDG — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [IS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [JPNS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LATN — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LING — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [LIT — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [MUS 101.3](#) Fundamentals of Music I Exploring Foundations
- [PHIL 120.3](#) Knowledge Mind and Existence
- [PHIL 121.3](#) Introduction to World Philosophies

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

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

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

Senior Humanities or Social Science Elective

- [ANTH — 200-Level, 300-Level, 400-Level](#)
  - [ARCH — 200-Level, 300-Level, 400-Level](#)
  - [CLAS — 200-Level, 300-Level, 400-Level](#)
  - [ECON — 200-Level, 300-Level, 400-Level](#)
  - [ENG — 200-Level, 300-Level, 400-Level](#)
  - [GEOG 202.3](#) Regional Geography of Canada
  - [GEOG 204.3](#) Geography of the Prairie Region
  - [GEOG 208.3](#) World Regional Development
  - [GEOG 240.3](#) Sustainable Cities and Regions
  - [GEOG 280.3](#) Environmental Geography
  - [HIST — 200-Level, 300-Level, 400-Level](#)
  - [INDG — 200-Level, 300-Level, 400-Level](#)
  - [IS — 200-Level, 300-Level, 400-Level](#)
  - [PHIL — 200-Level, 300-Level, 400-Level](#)
  - [POLS — 200-Level, 300-Level, 400-Level](#)
  - [PSY — 200-Level, 300-Level, 400-Level](#)
  - [RLST — 200-Level, 300-Level, 400-Level](#)
  - [SOC — 200-Level, 300-Level, 400-Level](#)
  - [WGST — 200-Level, 300-Level, 400-Level](#)
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- **Exception:** ECON 204 cannot be used to meet the Complementary Studies, Senior Humanities or Social Science elective requirements of the program.
  - **Exception:** PSY 233 and PSY 236 cannot be used to meet the Complementary Studies, Senior Humanities or Social Science elective requirements of the program.
  - **Exception:** PHIL 241 cannot be used to meet the Senior Humanities or Social Science elective requirements of the program.
  - **Exception:** SOC 225 cannot be used to meet the Complementary Studies, Senior Humanities or Social Science elective requirements of the program.
  - **Note:** The following Engineering courses will also satisfy the Humanities/Social Science elective requirement: RCM 400, RCM 401, RCM 402, RCM 403, RCM 404, RCM 405, RCM 406, RCM 407, RCM 408, RCM 409, RCM 410, and RCM 495.

### School of Environment and Sustainability – Items for Information

The following corrections in red are being made. Please note that AREC 238 has been in the program since its inception; however, it has been relabeled several times and was in the program under the labels of BPBE 330 and AGECE/AREC 330. The other 2 corrections represent data entry typos and omissions.

## Certificate in Sustainability (21 credit units)

### Required Courses (6 credit units):

- [ENVS 201.3](#) Foundations of Sustainability
- [ENVS 401.3](#) Sustainability in Action or [EVSC 485.3](#) Environmental Science Capstone Course

### Indigenous Learning for Sustainability (3 credit units):

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

- [ANTH 202.3](#) Anthropology and Indigenous Peoples in Canada
- ANTH 480.3
- [ARCH 350.3](#) Introduction to Boreal Forest Archaeology
- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- [COMM 347.3](#) Indigenous Business in Canada
- [DRAM 111.3](#) Practicum I Indigenous Performance Methods
- [ENG 242.3](#) Indigenous Storytelling of the Prairies
- [ENG 243.3](#) Introduction to Indigenous Literatures
- [ENG 335.3](#) The Emergence of Indigenous Literatures in Canada
- [HIST 195.3](#) History Matters Indigenous Perspectives on Canadian History
- HIST 266.3
- [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [KIN 306.3](#) Introduction to Indigenous Wellness
- [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\*

\*These courses may not be used to count as credit for both Indigenous Learning and Area of Focus electives

### Techniques and Tools for Sustainability (3 credit units)

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

- [ENVE 381.3](#) Sustainability and Environmental Assessment
- [EVSC 203.3](#) Sampling and Laboratory Analysis
- [GEOG 290.3](#) Field Methods in Hydrology
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making

- [GEOG 386.3](#) Environmental Impact Assessment
- [INDG 210.3](#) Indigenous Ways of Knowing
- [POLS 256.3](#) Understanding Political Science Research
- [PSY 235.3](#) Research Methods and Design
- [RRM 323.2](#) Resource Data and Environmental Modeling and [RRM 201.1](#) Geographical Information Systems
- [SOC 225.3](#) An Introduction to Survey Research and Data Analysis in Sociology
- [SOC 232.3](#) Methods of Social Research

## Areas of Focus (9 credit units)

Students must choose one of the following three areas of focus, in consultation with an advisor:

Please note in each area of focus there are thesis and/or research course options listed. If a student chooses to use one of these courses towards the completion of the certificate it must be demonstrated to the certificate coordinator that the thesis pursued has a focus on sustainability and the theme of the chosen area of focus.

### Natural Resources and Sustainability Focus

Elective Course (9 credit units):

Choose one of:

- [AREC 238.3](#) **Natural Resource Economics**
- [BIOL 228.3](#) An Introduction to Ecology and Ecosystems
- [ECON 275.3](#) Economics of Natural Resources
- [ECON 277.3](#) Economics of the Environment
- [ENVE 201.3](#) Principles of Environmental Engineering
- [ENVE 212.2](#) Physical Principles of Plant Biosystems
- [EVSC 210.3](#) Environmental Physics
- [EVSC 220.3](#) Environmental Soil Science
- [GEOG 280.3](#) Environmental Geography
- [PHIL 226.3](#) Environmental Philosophy
- [PHIL 231.3](#) Moral Problems
- [PHIL 236.3](#) Ethics and Technology
- [PLSC 213.3](#) Principles of Plant Ecology
- [TOX 200.3](#) Poisons and Pollutants

Choose one of:

- [ANBI 375.3](#) Animals and the Environment

- AREC 330.3
- [BIOL 373.3](#) Community Ecology
- [CHEM 375.3](#) Environmental Chemistry
- [ECON 376.3](#) Energy Economics
- [EVSC 380.3](#) Grassland Soils and Vegetation
- [GEOG 333.3](#) Global Climate Change
- [GEOG 351.3](#) Northern Environments
- PLAN 329.3
- [RRM 312.3](#) Natural Resource Management and Indigenous Peoples
- [SLSC 342.3](#) Agronomic Soil Microbiology
- [SLSC 350.3](#) Terrestrial Restoration
- [TOX 301.3](#) Environmental Toxicology

Choose one of:

- [AREC 430.3](#) Advanced Natural Resource Economics
- [BIOL 410.3](#) Current Perspectives in Environmental Biology
- [BIOL 412.3](#) Limnology
- [BIOL 470.3](#) Conservation Biology
- [BIOL 475.3](#) Ecological Toxicology
- [ENVE 432.3](#) Land Management and Reclamation
- [EVSC 421.3](#) Contaminated Site Management and Remediation
- EVSC 430.3
- [EVSC 492.3](#) Research and Term Paper
- [EVSC 494.3](#) Research and Thesis
- [GEOG 490.3](#) Honours Thesis in Hydrology or Geomatics
- [GEOL 464.3](#) Geoscience of Green Energy and the Digital Economy
- [PLSC 413.3](#) Advanced Plant Ecology
- [PLSC 422.3](#) Rangeland Ecology and Management
- PLSC 423.3
- [PLSC 425.3](#) Forest Ecology
- [PLSC 492.3](#) Project Thesis in Plant Sciences
- [PLSC 494.6](#) Research Thesis in Plant Sciences
- ~~[PLSC 492.3](#) Project Thesis in Plant Sciences~~
- ~~[PLSC 494.3](#) Research Thesis in Plant Sciences~~
- [SLSC 444.3](#) Soil Ecology
- ~~[SLSC 492.3](#) Research and Term Paper~~
- ~~[SLSC 494.6](#) Research and Thesis~~

## Community and Sustainability Focus

Elective Course (9 credit units):

Choose one of:

- [ANTH 240.3](#) Cultural Landscapes and Environments
- [ANTH 244.3](#) Political Ecology Anthropology and Global Environmental Issues
- [CPSJ 203.3](#) Cultivating Humanity
- [ECON 275.3](#) Economics of Natural Resources
- [ECON 277.3](#) Economics of the Environment
- [GEOG 208.3](#) World Regional Development
- [GEOG 240.3](#) Sustainable Cities and Regions
- [GEOG 280.3](#) Environmental Geography
- [HIST 243.3](#) The Reverberations of the Industrial Revolution 1750 to today
- [HIST 257.3](#) The Canadian Prairie to 1905
- [HIST 258.3](#) The Canadian Prairies since 1905
- HIST 263.3
- HIST 290.3
- [HIST 292.3](#) The Menace of Progress I Enlightenment Colonialism Dispossession
- [HIST 293.3](#) The Menace of Progress II The Promise and Failure of Development
- [PHIL 226.3](#) Environmental Philosophy
- [PHIL 231.3](#) Moral Problems
- [PHIL 236.3](#) Ethics and Technology
- [POLS 226.3](#) Canadian Public Policy
- ~~[PLST 210.3](#)~~
- [RLST 210.3](#) Religion and Ecology
- [SOC 202.3](#) Environmental Sociology
- [SOC 204.3](#) Rural Sociology and Rural Development
- [SOC 206.3](#) Sociology of Communities and Community Development
- [SOC 227.3](#) Critical Issues in Canadian Society
- [WGST 210.3](#) Gendered Perspectives on Current Events

Choose one of:

- [ANTH 329.3](#) Environmental Anthropology
- ARCH 357.3
- AREC 330.3
- GEOG 340.3
- GEOG 352.3
- [GEOG 364.3](#) Geography of Environment and Health
- [GEOG 380.3](#) Environmental Geography of the Circumpolar North
- [GEOG 381.3](#) Development in the Canadian North Issues and Challenges
- [HIST 365.3](#) Recipes for a Nation Food History in Canada
- [HIST 371.3](#) Power and Change The History of Energy
- [PLAN 341.3](#) Urban Planning
- PLAN 342.3
- [PLAN 346.3](#) Introduction to Urban Design
- [PLAN 350.3](#) Transportation Planning and Geography
- [POLS 326.3](#) Comparative Public Policy
- [POLS 328.3](#) Public Policy Analysis
- [SOC 309.3](#) Theories of Social Change

- SOC 344.3
- [SOC 360.3](#) Globalization and Social Justice

Choose one of:

- [ANBI 475.3](#) Field Studies in Arctic Ecosystems and Indigenous Peoples
- [ANTH 401.3](#) Independent Research in Anthropology
- [AREC 430.3](#) Advanced Natural Resource Economics
- [AREC 432.3](#) Rural Development Theory and Applications
- [CHEP 402.3](#) Global Health and Local Communities Issues and Approaches
- [CPSJ 400.3](#) Critical Perspectives on Social Justice and the Common Good
- GEOG 464.3
- [GEOG 491.3](#) Honours Thesis in Environment and Society
- HIST 445.3
- HIST 459.3
- INDG 451.6
- [LAW 444.3](#) Environmental Law
- [PLAN 441.3](#) Challenges in Urban Development
- [PLAN 445.3](#) Planning with Indigenous Communities
- [PLAN 446.3](#) Advanced Urban Design Studio
- [POLS 403.3](#) Advanced Topics in Public Law and Public Policy
- [POLS 422.3](#) Indigenous Governance and Self Determined Sustainable Development
- [SOC 409.3](#) Sociology of Development
- SOC 421.3
- [WGST 411.3](#) Situated Transnational Feminisms

## Food Systems and Sustainability Focus

Elective Course (9 credit units):

Choose one of:

- [AREC 251.3](#) Introduction to Agricultural Policy
- [AGRC 211.3](#) Global Food Security
- [PLSC 235.3](#) Urban Agriculture

Choose one of:

- [ANBI 375.3](#) Animals and the Environment
- [ANSC 301.3](#) Animal Production Tour
- AREC 330.3
- [AREC 348.3](#) Food Economics and Consumer Behaviour



- [EVSC 380.3](#) Grassland Soils and Vegetation
- [FABS 371.3](#) Food Biotechnology
- [PLSC 345.3](#) Pesticides and Crop Protection
- [RRM 312.3](#) Natural Resource Management and Indigenous Peoples
- [SLSC 313.3](#) Environmental Soil Chemistry

Choose one of:

- [AREC 428.3](#) Case Studies in Agribusiness Management
- [AREC 432.3](#) Rural Development Theory and Applications
- [AREC 451.3](#) Agricultural Policy Analysis
- [EVSC 492.3](#) Research and Term Paper
- [EVSC 494.6](#) Research and Thesis
- [FABS 401.3](#) Dairy Science and Technology
- FABS 436.3
- FABS 450.3
- [FABS 492.3](#) Literature Thesis
- [FABS 494.3](#) Research Thesis
- [GEOG 491.3](#) Honours Thesis in Environment and Society
- [PLSC 401.3](#) Sustainable Crop Production
- [PLSC 413.3](#) Advanced Plant Ecology
- [PLSC 418.3](#) Management of Arable Grassland
- [PLSC 422.3](#) Rangeland Ecology and Management
- [PLSC 492.3](#) Project Thesis in Plant Sciences
- [PLSC 494.6](#) Research Thesis in Plant Sciences
- [SLSC 492.3](#) Research and Term Paper
- [SLSC 494.6](#) Research and Thesis
- [SOC 402.3](#) Sociology of Agriculture and Food

## **Western College of Veterinary Medicine – August 2023 University Course Challenge**

The following new courses have been approved through the WCVM Faculty Council and are being proposed here for final approval:

### **VLAC 430.1 History of Veterinary Medicine (12L overall)**

This is an introductory course to provide a background to why veterinary medicine is practiced the way that it is. The course will focus on developments over time relating to medicine, surgery, pain control, infection control and public health.

Prerequisite(s): Successful completion of year 2 of the D.V.M. program.

### **VLAC 440.1 Small Ruminant Health Management Elective (12L overall)**

This course is designed to provide veterinary students with an interest in small ruminants with basic knowledge in small ruminant health management. The emphasis of the course will be on increasing students' understanding of small ruminant health management in Canada with a focus on important infectious and production-limiting diseases incl. reproductive management. Content will also focus on appropriate and available drug therapies in these minor species.

Prerequisite(s): Successful completion of year 2 of the D.V.M. program.

### **VSAC 412.2 Emergency and Critical Care Elective 2(4L-20P overall)**

This is a hands on course focusing on emergency simulations, communication and hands on procedures. Topics that will be covered include wound management, ECGs, CPR, as well as common emergency presentations. Hands on techniques include thoracocentesis and chest tube placement.

Prerequisite(s): Successful completion of year 2 of the D.V.M. program.

### **VINT 416.1 Four Seasons of Reconciliation (12 S overall)**

The 4 Seasons of Reconciliation is an interactive course designed to introduce participants to the history and cultures of Indigenous peoples on Turtle Island from European contact to current times. Participants will engage with an online portal including slide shows and videos on various topics such as Indigenous innovations, treaties and government policies, UNDRIP and TRC calls to action, residential schools and the 60s scoop, economic reconciliation and the path forwards. Over several group sessions, participants will take part in conversation circles which are an opportunity to reflect on learning materials, learn from one another, and determine one's role in reconciliation. Following completion of the course, participants will receive a certificate which will document their participation.

Prerequisite(s): Successful completion of year 2 of the D.V.M. program.

### **VTMC 405.1 Antibiotics and Alternatives 12 L overall**

A lecture and seminar discussion-based course designed to introduce students to past and modern approaches to antibiotic discovery and the current focus on alternatives, including pro-, pre- and postbiotics. The course will highlight success stories to include many of the drugs that the students will rely on daily in their future practice of veterinary medicine. After a brief introduction to the field, students will select specific seminar topics of high interest.

Prerequisite(s): Successful completion of year 2 of the D.V.M. program.

**VSAC 474.2 Feline Internal Medicine Elective 2(22L overall)**

This 2-credit course will allow students with an interest in feline medicine to expand on their current knowledge base and skills. Emphasis will be placed on common feline health problems and on disorders that are not well covered in the current curriculum.

Prerequisite(s): Successful completion of year 2 of the D.V.M. program.

**Rationale:** The above new courses have been offered successfully as special topics courses and are now required to become permanent course offerings. They are elective courses that can be used to fulfill the electives requirement in year 3 of the Doctor of Veterinary Medicine (D.V.M.) program.

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