

Academic Programs Committee of Council

University Course Challenge

Scheduled posting: **March 2026**

Date of circulation: **March 17, 2026**

Date approval is effective if no challenge received: **March 31, 2026**

Curricular and program changes approved by University Course Challenge include additions and deletions of courses, lower levels of study and program options; straightforward program changes; and curricular changes which affect other colleges.

Included are submissions for information and approval from the following colleges and schools:

College of Agriculture and Bioresources

College of Arts and Science

College of Engineering

College of Graduate and Postdoctoral Studies

College of Law

The next scheduled posting will be **April 17, 2026** with a submission deadline of **April 14, 2026**. Urgent items can be posted on request.

Please direct challenges to both of the following: seanine.warrington@usask.ca in the Registrar's Office and danielle.rudulier@usask.ca in the Governance Office.

College of Agriculture and Bioresources – University Course Challenge March 2026

The following changes were approved through the College of Agriculture and Bioresources Undergraduate Affairs Committee and are now submitted to the University Course Challenge for approval.

Contact: Megan Loessl (megan.loessl@usask.ca)

New Courses

RRM 302.3

Agricultural and Environmental Geomatics

An introduction to geographic information systems (GIS) focused on agricultural and environmental applications and uses. The role of GIS continues to grow in the agricultural sector across the globe from farm-level management to large-scale understanding of trends across space and time. This course introduces students to computer-based GIS software (QGIS) for data management, analysis, and map production. The course will focus on basic GIS topics and techniques including data structures, spatial data, geo-referencing, spatial statistics, and modelling. Students will gain practical experience using and collecting GIS data through experiential learning exercises.

Prerequisites: One of AGRC 111, AGRC 113, EVSC 110, or RRM 114; or completed 21 credits; or permission from instructor.

Weekly Hours: 3 Lecture hours and 2 Practicum/Lab hours

Note: Students with credit for RRM 398 “**Agricultural and Environmental Geomatics**” will not receive credit to this course.

Rationale: Geographic information systems (GIS) have become critical tools in agriculture and environmental management, supporting applications from precision farming and soil health monitoring to large-scale analysis of environmental change. This course provides students with foundational GIS knowledge and hands-on experience using QGIS, ensuring they acquire practical skills directly applicable to agricultural and bioresource contexts. By offering a college-specific GIS course, AgBio can better support students’ needs and ensure clear alignment with programs such as the Precision Agriculture Certificate, where GIS competency is a key component.

This course has been offered once as RRM 398. The Department of Geography and Planning has been consulted about this course.

Revisions to Course Prerequisites

PLSC 402.3 — 2(3L-2P)

Advanced Precision Agriculture

This course is the capstone course in the Precision Agriculture Certificate. It will allow students to integrate knowledge from their specific subdiscipline with real-world precision agriculture solutions to increase the sustainability and production of crops. Students will learn advanced concepts in precision agriculture and how to analyze spatial and temporal variability in crop production. They will utilize a variety of data, ranging from satellite imagery, soil topography and soil properties, to understand and develop variable rate prescriptions for crop inputs. Finally,

students will apply this knowledge in diverse teams that utilize discipline-specific knowledge to solve real-world precision agriculture problems.

Prerequisite(s): PLSC 202.3 and **RRM 302.3** or GEOG 222.3 ~~or RRM 321.3~~ One of PLSC 214.3, STAT 245.3 or GE 210.3 is strongly

Rationale: Adding the newly created RRM 302.3 as a prerequisite option. PLSC 402 is the capstone course for the Certificate in Precision Agriculture and RRM 302 aligns well as a building block for PLSC 402.

Revisions to Course and Program Catalogue

1. Add new course RRM 302.3 to program requirements for Bachelor of Science in Agriculture Environmental Science major, and Bachelor of Science in Renewable Resource Management Resource Science major, and Certificate in Precision Agriculture

Rationale: Adding RRM 302.2 to the Environmental Science and Resource Science majors provides students with advanced analytical skills, practical field experience, and GIS training tailored to agricultural and environmental applications. This course enhances program relevance, supports experiential learning, and aligns with industry and program outcomes. Including RRM 302.3 as an option for the geomatics requirement ensures students gain GIS skills specifically tailored to agricultural and environmental applications. This addition aligns with the certificate's focus on precision agriculture.

Environmental Science

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

Minimum Requirements for Degree (120 credit units)

Year 1 (30 credit units)

- **AGRC 110.3** Scientific Literacy and Communication for the Agricultural Sciences
- **AGRC 111.3** Introduction to Plant and Soil Sciences
- **AGRC 112.3** Animal Agriculture and Food Science
- **AGRC 113.3** Introduction to Agri Food Economics
- **AREC 220.3** History of Indigenous Agriculture in Canada or **INDG 107.3** Introduction to Canadian Indigenous Studies
- **BIOL 120.3** The Nature of Life
- **BIOL 121.3** The Diversity of Life or **EVSC 110.3** Renewable Resources and Environment
- **CHEM 112.3** General Chemistry I Structure Bonding and Properties of Materials
- **CHEM 115.3** General Chemistry II Chemical Processes or **CHEM 250.3** Introduction to Organic Chemistry

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

Humanities

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

Social Sciences

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

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

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

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

Fine Arts

- [ART — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [DRAM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [MUS — 100-Level, 200-Level, 300-Level, 400-Level](#)

Year 2 (30 credit units)

- [EVSC 203.3](#) Sampling and Laboratory Analysis
- [EVSC 210.3](#) Environmental Physics
- [EVSC 220.3](#) Environmental Soil Science
- [FABS 212.3](#) Agrifood and Resources Microbiology OR [BMSC 210.3](#) Microbiology
- [GEOL 206.3](#) Earth Systems or [GEOG 120.3](#) Introduction to Global Environmental Systems
- [MATH 104.3](#) Elementary Calculus or [MATH 110.3](#) Calculus I or [MATH 125.3](#) Mathematics for the Life Sciences
- [PLSC 213.3](#) Principles of Plant Ecology
- [PLSC 214.3](#) Statistical Methods or [STAT 245.3](#) Introduction to Statistical Methods

English Language Writing Requirement

Choose 3 credit units from the following:

- [ANTH 302.3](#) The Practice of Ethnography
- [ANTH 306.3](#) Anthropology of Disaster and Dislocation
- [ANTH 310.3](#) Anthropology of Gender
- ANTH 421.3
- [CPSJ 203.3](#) Cultivating Humanity
- [ENG 111.3](#) Literature and Composition Reading Poetry
- [ENG 112.3](#) Literature and Composition Reading Drama
- [ENG 113.3](#) Literature and Composition Reading Narrative
- [ENG 114.3](#) Literature and Composition Reading Culture
- [ENG 120.3](#) Introduction to Creative Writing
- [HIST 115.3](#) History Matters Ideas and Culture
- [HIST 125.3](#) History Matters Indigenous Colonial and Post Colonial Histories
- [HIST 135.3](#) History Matters Gender Sex and Society
- [HIST 145.3](#) History Matters War Violence and Politics
- [HIST 155.3](#) History Matters Science and Environment
- [HIST 165.3](#) History Matters Health and Society
- [HIST 175.3](#) History Matters Identities and Communities in Transition
- [HIST 185.3](#) History Matters Conflict Law Politics and the State
- [HIST 193.3](#) History Matters Topics in Canadian History
- [HIST 194.3](#) History Matters Topics in European History

- [PHIL 120.3](#) Knowledge Mind and Existence
- [PHIL 121.3](#) Introduction to World Philosophies
- [PHIL 133.3](#) Introduction to Ethics and Values
- [PHIL 208.3](#) Ancient Philosophy Presocratics to Plato
- [PHIL 233.3](#) Ethical Theory
- [POLS 245.3](#) Politics of Africa
- [POLS 323.3](#) First Nations Policies and Programs
- [POLS 328.3](#) Public Policy Analysis
- [POLS 333.3](#) Theory and Politics of Law
- [POLS 336.3](#) Justice and Democracy
- [POLS 422.3](#) Indigenous Governance and Self Determined Sustainable Development
- [POLS 461.3](#) Topics in Global Politics
- [PSY 323.3](#) Qualitative Study of Lives and Social Practices
- [PSY 355.3](#) Research in Advanced Cognitive Science
- [RLST 280.3](#) Methodologies and Approaches to Study of Religions
- [RLST 362.3](#) Monsters and Mischief Makers

Open Electives

- Choose 3 credit units open electives

Years 3 & 4 (60 credit units)

- [RRM 302.3](#) Agricultural and Environmental Geomatics (RRM 302.3 preferred) or [GEOG 222.3](#) Geomatics

Choose 3 credit units from the following:

Selection will depend upon the student's area of interest.

- [EVSC 485.3](#) Environmental Science Capstone Course
- [ENVS 401.3](#) Sustainability in Action
- [EVSC 492.3](#) Research and Term Paper
- [EVSC 494.6](#) Research and Thesis
- [RRM 421.6](#) Applied Resource and Environmental Management Project

Choose 3 credit units of Environmental Policy from the following:

- [AREC 238.3](#) Natural Resource Economics
- [ECON 275.3](#) Economics of Natural Resources
- [ECON 277.3](#) Economics of the Environment
- [GEOG 280.3](#) Environmental Geography

Choose 3 credit units of Environmental Risk Assessment from the following:

- [ENVE 381.3](#) Sustainability and Environmental Assessment
- [EVSC 400.3](#) Quantitative Environmental Assessment
- [GEOG 235.3](#) Earth Processes and Natural Hazards A Canadian Perspective
- [GEOG 386.3](#) Environmental Impact Assessment
- [TOX 301.3](#) Environmental Toxicology

- [TOX 321.3](#) Risk Assessment and Regulatory Toxicology

Choose 6 credit units of Environmental Quality from the following:

- [CHEM 375.3](#) Environmental Chemistry
- [EVSC 421.3](#) Contaminated Site Management and Remediation
- [GEOG 225.3](#) Fundamentals of Hydrology
- [GEOG 233.3](#) Weather and Climate
- [GEOG 325.3](#) River Systems
- [GEOG 333.3](#) Global Climate Change
- [GEOL 229.3](#) Introductory Geochemistry
- [SLSC 350.3](#) Terrestrial Restoration

Choose 3 credit units Field Courses from the following:

- [EVSC 380.3](#) Grassland Soils and Vegetation
- [SLSC 450.3](#) Practical and Applied Restoration
- [SLSC 480.3](#) Soils and Boreal Landscapes or [SLSC 460.3](#) Forest Soils

Choose 6 credit units of Agriculture and the Environment from the following:

- [ANBI 375.3](#) Animals and the Environment
- [ENVE 432.3](#) Land Management and Reclamation
- [EVSC 202.3](#) Agricultural Climate Change in Saskatchewan
- [PLSC 201.3](#) Field Crops of Western Canada or [PLSC 222.3](#) Introduction to Field Crops
- [PLSC 401.3](#) Advanced Crop Agronomy
- [PLSC 422.3](#) Rangeland Ecology and Management
- [PLSC 425.3](#) Forest Ecology
- [SLSC 312.3](#) Soil Fertility and Fertilizers

Choose 6 credit units from the following:

- [SLSC 232.3](#) Soil Genesis and Classification
- [SLSC 313.3](#) Environmental Soil Chemistry
- [SLSC 322.3](#) Environmental Soil Physics
- [SLSC 342.3](#) Soil Microbiology
- [SLSC 444.3](#) Soil Ecology

Choose 12 credit units of restricted electives:

Direct entry students are required to select a minor in one of the fields of specialization within the College or an approved cross-college minor. Completion of the minor requirements will satisfy the Restricted Electives requirement. Students transferring under a block transfer agreement with another college or institution do not require a minor but instead must take a prescribed number of courses from a list of approved restricted electives. For a list of these classes see the Block Transfer section below.

Open Electives

- Choose 15 credit units open electives

Resource Science

Bachelor of Science in Renewable Resource Management [B.Sc.(RRM)]

Minimum Requirements for Degree (120 credit units)

Students are required to achieve a 60% Cumulative Weighted Average on 120 credit units of approved courses.

Year 1 (30 credit units)

- 3 credit units open electives
- [BIOL 120.3](#) The Nature of Life
- [BIOL 121.3](#) The Diversity of Life
- [CHEM 112.3](#) General Chemistry I Structure Bonding and Properties of Materials
- [ECON 111.3](#) Introductory Microeconomics
- [EVSC 110.3](#) Renewable Resources and Environment
- [GEOG 120.3](#) Introduction to Global Environmental Systems or [GEOL 206.3](#) Earth Systems
- [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [MATH 104.3](#) Elementary Calculus or [MATH 110.3](#) Calculus I or [MATH 125.3](#) Mathematics for the Life Sciences
- [RRM 114.3](#) Introductory Resource Economics and Policy

Year 2 (30 credit units)

- 9 credit units open electives
- [AGRC 110.3](#) Scientific Literacy and Communication for the Agricultural Sciences or [RCM 200.3](#) Effective Professional Communication
- [EVSC 202.3](#) Agricultural Climate Change in Saskatchewan or [GEOG 233.3](#) Weather and Climate
- [EVSC 203.3](#) Sampling and Laboratory Analysis
- [RRM 302.3](#) Agricultural and Environmental Geomatics (RRM 302.3 preferred) or [GEOG 222.3](#) Geomatics
- [GEOG 280.3](#) Environmental Geography
- [PLSC 213.3](#) Principles of Plant Ecology or [BIOL 228.3](#) Ecology in a Changing World
- [RRM 215.3](#) Identification of Saskatchewan Plants and Soils

Note: Students planning to declare a Soil Science minor are advised to register in [EVSC 220.3](#) Environmental Soil Science or [SLSC 240.3](#) Agricultural Soil Science as an open elective and meet with an academic advisor as soon as possible to plan their program.

Year 3 (30 credit units)

- 6 credit units open electives
- [PLSC 214.3](#) Statistical Methods or [STAT 245.3](#) Introduction to Statistical Methods
- [RRM 301.9](#) Field Course in Renewable Resource Management
- [RRM 312.3](#) Natural Resource Management and Indigenous Peoples

- [RRM 321.3](#) Resource Data and Environmental Modeling
- [SLSC 232.3](#) Soil Genesis and Classification
- one of [GEOG 385.3](#) Analysis of Environmental Management and Policy Making, [GEOG 386.3](#) Environmental Impact Assessment or [ENVE 381.3](#) Sustainability and Environmental Assessment or [SLSC 350.3](#) Terrestrial Restoration

Note: Students in their third year Fall (T1) semester should consider taking [RRM 301.9](#) Field Course in Renewable Resource Management, [RRM 321.3](#) Resource Data and Environmental Modeling and [SLSC 232.3](#) Soil Genesis and Classification, if possible.

Year 4 (30 credit units)

- [EVSC 485.3](#) Environmental Science Capstone Course or [ENVS 401.3](#) Sustainability in Action
- [RRM 421.6](#) Applied Resource and Environmental Management Project

Choose 21 credit units of restricted electives from the following, depending on area of interest:

Indigenous Land Management

- [ANTH 111.3](#) One World Many Peoples Introduction to Cultural Anthropology
- [ANTH 329.3](#) Environmental Anthropology
- [ASKI 202.1](#) Introduction to Land Management Frameworks
- [ASKI 204.2](#) Introduction to the Duty to Consult
- [COMM 347.3](#) Indigenous Business in Canada
- [LAW 436.3](#) Aboriginal Law

Ecology

- [AGRC 111.3](#) Introduction to Plant and Soil Sciences
- [ANBI 375.3](#) Animals and the Environment
- [ANBI 420.3](#) Comparative Animal Endocrinology
- [BIOL 323.3](#) Plant Systematics and Evolution
- [EVSC 380.3](#) Grassland Soils and Vegetation
- [PLSC 413.3](#) Advanced Plant Ecology
- [PLSC 418.3](#) Management of Arable Grassland
- [PLSC 422.3](#) Rangeland Ecology and Management
- [PLSC 425.3](#) Forest Ecology
- [PLSC 427.3](#) Ecology and Management of Invasive Plants

Northern Studies

- [GEOG 150.3](#) Introduction to the Circumpolar World
- [GEOG 351.3](#) Northern Environments
- [GEOG 380.3](#) Environmental Geography of the Circumpolar North

Policy

- [AGRC 211.3](#) Global Food Security

- [AREC 342.3](#) Industrial Organization of Agricultural Markets
- [AREC 432.3](#) Rural Development Theory and Applications
- [AREC 451.3](#) Agricultural Policy Analysis
- [COMM 201.3](#) Introduction to Financial Accounting
- [ECON 231.3](#) Co operatives
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [PHIL 226.3](#) Environmental Philosophy
- [POLS 111.3](#) Politics Power and Government or [POLS 112.3](#) Justice and Injustice in Politics and Law
- [POLS 225.3](#) Canadian Public Administration and Administrative Law
- [POLS 226.3](#) Canadian Public Policy
- [POLS 326.3](#) Comparative Public Policy
- [POLS 328.3](#) Public Policy Analysis

Resource Economics Policy

- [AREC 238.3](#) Natural Resource Economics
- [AREC 315.3](#) Application of Microeconomic Theory to Agriculture
- [AREC 430.3](#) Advanced Natural Resource Economics
- [ECON 211.3](#) Intermediate Microeconomics
- [ECON 275.3](#) Economics of Natural Resources
- [ECON 277.3](#) Economics of the Environment

Soil Science

- [EVSC 220.3](#) Environmental Soil Science
- [EVSC 421.3](#) Contaminated Site Management and Remediation
- [GEOG 235.3](#) Earth Processes and Natural Hazards A Canadian Perspective
- [SLSC 312.3](#) Soil Fertility and Fertilizers
- [SLSC 313.3](#) Environmental Soil Chemistry
- [SLSC 322.3](#) Environmental Soil Physics
- [SLSC 342.3](#) Soil Microbiology
- [SLSC 350.3](#) Terrestrial Restoration
- [SLSC 444.3](#) Soil Ecology
- [SLSC 450.3](#) Practical and Applied Restoration
- [SLSC 460.3](#) Forest Soils

Techniques

- [AGRC 445.3](#) Experiential Learning in the Workplace
- [ENVE 381.3](#) Sustainability and Environmental Assessment
- [EVSC 400.3](#) Quantitative Environmental Assessment
- [FABS 212.3](#) Agrifood and Resources Microbiology or [BMSC 210.3](#) Microbiology
- [GEOG 322.3](#) Geographic Information Systems
- [GEOG 323.3](#) Remote Sensing
- [GEOG 385.3](#) Analysis of Environmental Management and Policy Making
- [GEOG 386.3](#) Environmental Impact Assessment

Water Science

- [BIOL 412.3](#) Limnology
- [BIOL 475.3](#) Ecological Toxicology
- [CHEM 375.3](#) Environmental Chemistry
- [ENVE 432.3](#) Land Management and Reclamation
- [GEOG 225.3](#) Fundamentals of Hydrology
- [GEOG 328.3](#) Groundwater Hydrology
- [TOX 301.3](#) Environmental Toxicology
- [TOX 321.3](#) Risk Assessment and Regulatory Toxicology

Precision Agriculture

Certificate (Cert.)

Certificate Requirements (18 credit units)

Required Courses (9 credit units)

- [RRM 302.3](#) Agricultural and Environmental Geomatics or [GEOG 222.3](#) Geomatics
- [PLSC 202.3](#) Introductory Precision Agriculture
- [PLSC 402.3](#) Advanced Precision Agriculture

Electives (9 credit units)

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

- [AREC 220.3](#) History of Indigenous Agriculture in Canada
- [AREC 222.3](#) Introduction to Farm Business Management
- [AREC 272.3](#) Introduction to Agricultural Economics
- [AREC 315.3](#) Application of Microeconomic Theory to Agriculture
- [AREC 354.3](#) Economic Decision Analysis in Agribusiness
- [AREC 262.3](#) Agricultural Data Analytics II
- [AREC 420.3](#) Operations Management for Agriculture
- [AREC 459.3](#) The Economics of Agricultural Innovation
- BLE 313.3
- [CE 202.3](#) Spatial Analysis and Engineering Drawings
- [CE 395.3](#) Transportation Design Project
- [CE 319.3](#) Hydrology

- [CE 328.3](#) Fundamentals of Soil Mechanics
- [CMPT 214.3](#) Programming Principles and Practice
- [CMPT 317.3](#) Introduction to Artificial Intelligence
- CMPT 350.3
- CMPT 355.3
- [CMPT 384.3](#) Information Visualization
- [CMPT 423.3](#) Machine Learning
- [CMPT 453.3](#) Cloud and Mobile Computing
- [CMPT 481.3](#) Human Computer Interaction
- [CMPT 487.3](#) Image Processing and Computer Vision
- [CMPT 489.3](#) Deep Learning and Applications
- [GEOG 225.3](#) Fundamentals of Hydrology
- [GEOG 290.3](#) Field Methods in Hydrology
- [GEOG 302.3](#) Quantitative Methods in Geography
- [GEOG 322.3](#) Geographic Information Systems
- [GEOG 323.3](#) Remote Sensing
- [GEOG 423.3](#) Advanced Remote Sensing
- [GEOG 390.3](#) Methods in Hydrometeorology
- [ENVE 212.3](#) Physical Principles of Plant Biosystems
- [ENVE 395.3](#) Environmental Engineering Design Project
- [ENVE 432.3](#) Land Management and Reclamation
- [EVSC 220.3](#) Environmental Soil Science
- [ME 214.3](#) Introduction to Materials and Manufacturing
- [ME 229.3](#) Introduction to Mechanical Engineering Design
- [ME 329.3](#) Collaborative Design and Manufacturing
- [PLSC 201.3](#) Field Crops of Western Canada

- [PLSC 222.3](#) Introduction to Field Crops
 - [PLSC 260.3](#) Principles of Plant Protection
 - [PLSC 335.3](#) Field Crop Disease Management
 - [PLSC 340.3](#) Weed Science
 - [PLSC 382.3](#) Introduction to Field Scouting
 - [PLSC 401.3](#) Advanced Crop Agronomy
 - [PLSC 418.3](#) Management of Arable Grassland
 - [PLSC 450.3](#) Applied Entomology
 - [PLSC 475.3](#) Insect Ecology
 - [SLSC 232.3](#) Soil Genesis and Classification
 - [SLSC 240.3](#) Agricultural Soil Science
 - [SLSC 312.3](#) Soil Fertility and Fertilizers
 - [SLSC 322.3](#) Environmental Soil Physics
 - [SLSC 313.3](#) Environmental Soil Chemistry
 - [SLSC 342.3](#) Soil Microbiology
2. Add COMM 225.3 to program requirements for Bachelor of Science in Agriculture Horticulture Science major.

Rationale: COMM 225.3 was created by Edwards School of Business for non-ESB students who need practical financial literacy and basic accounting skills. Adding this course as an option in the Horticulture Science major will give students essential business competencies—such as budgeting, interpreting financial information, and understanding costs—that support decision-making in horticultural operations and related careers.

Horticulture Science

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

Year 1 (30 credit units)

- [AGRC 110.3](#) Scientific Literacy and Communication for the Agricultural Sciences
- [AGRC 111.3](#) Introduction to Plant and Soil Sciences
- [AGRC 112.3](#) Animal Agriculture and Food Science
- [AGRC 113.3](#) Introduction to Agri Food Economics

- [AREC 220.3](#) History of Indigenous Agriculture in Canada or [INDG 107.3](#) Introduction to Canadian Indigenous Studies
- [BIOL 120.3](#) The Nature of Life
- [BIOL 121.3](#) The Diversity of Life
- [CHEM 112.3](#) General Chemistry I Structure Bonding and Properties of Materials
- [MATH 104.3](#) Elementary Calculus or [MATH 110.3](#) Calculus I or [MATH 125.3](#) Mathematics for the Life Sciences

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

Humanities

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

Social Sciences

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

- [POLS — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [PSY — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [SOSC — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [WGST — 100-Level, 200-Level, 300-Level, 400-Level](#)

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

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

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

Fine Arts

- [ART — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [ARTH — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [DRAM — 100-Level, 200-Level, 300-Level, 400-Level](#)
- [MUS — 100-Level, 200-Level, 300-Level, 400-Level](#)

Year 2 (30 credit units)

- [BIOL 222.3](#) The Living Plant
- [BIOL 226.3](#) Genes to Genomics
- [CHEM 250.3](#) Introduction to Organic Chemistry
- [PLSC 214.3](#) Statistical Methods or [STAT 245.3](#) Introduction to Statistical Methods
- [PLSC 220.3](#) Fundamentals of Horticulture
- [PLSC 260.3](#) Principles of Plant Protection
- [SLSC 240.3](#) Agricultural Soil Science

English Language Writing Requirement

Choose 3 credit units from the following:

- [ANTH 302.3](#) The Practice of Ethnography
- [ANTH 306.3](#) Anthropology of Disaster and Dislocation
- [ANTH 310.3](#) Anthropology of Gender
- ANTH 421.3
- [CPSJ 203.3](#) Cultivating Humanity
- [ENG 111.3](#) Literature and Composition Reading Poetry
- [ENG 112.3](#) Literature and Composition Reading Drama
- [ENG 113.3](#) Literature and Composition Reading Narrative
- [ENG 114.3](#) Literature and Composition Reading Culture
- [ENG 120.3](#) Introduction to Creative Writing
- [HIST 115.3](#) History Matters Ideas and Culture
- [HIST 125.3](#) History Matters Indigenous Colonial and Post Colonial Histories

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

Open Electives

- Choose 6 credit units open electives

Years 3 & 4 (60 credit units)

~~PLSC 433 and PLSC 451 are offered ONLY in odd years;~~ PLSC 330, ~~PLSC 441~~, PLSC 461 and PLSC 470 are offered ONLY in even years.

- [BIOL 331.3](#) Plant Physiology or [PLSC 317.3](#) Plant Metabolism
- [PLSC 405.3](#) Genetics of Plant Populations or [PLSC 411.3](#) Plant Breeding
- [AGRC 311.3](#) International Study Tour or [EVSC 485.3](#) Environmental Science Capstone Course or [PLSC 492.3](#) Project Thesis in Plant Sciences or [PLSC 494.6](#) Research Thesis in Plant Sciences Research Thesis in Plant Sciences (3 credit units count as restricted elective)

Choose 15 credit units (Horticulture Science)

- [PLSC 330.3](#) Ornamental Plants
- [PLSC 433.3](#) Greenhouse Crop Production
- [PLSC 435.3](#) Landscape Design
- [PLSC 441.3](#) Fruit Science
- [PLSC 451.3](#) Vegetable Agronomy

- [PLSC 461.3](#) Post Harvest Management of Horticultural Crops
- [PLSC 470.3](#) Plant Propagation

Choose 9 credit units (Additional Plant Science)

- [AGRC 311.3](#) International Study Tour
- [BIOL 324.3](#) Plants and Human Affairs
- [BIOL 342.3](#) Fungi Environment and People
- [EVSC 485.3](#) Environmental Science Capstone Course
- [PLSC 311.3](#) General Apiculture
- [PLSC 330.3](#) Ornamental Plants
- [PLSC 333.3](#) Tropical Crops of the World
- [PLSC 342.3](#) Medicinal Plants Agriculture and Human Health
- [PLSC 405.3](#) Genetics of Plant Populations
- [PLSC 411.3](#) Plant Breeding
- [PLSC 416.3](#) Applied Plant Biotechnology
- [PLSC 433.3](#) Greenhouse Crop Production
- [PLSC 435.3](#) Landscape Design
- [PLSC 441.3](#) Fruit Science
- [PLSC 451.3](#) Vegetable Agronomy
- [PLSC 461.3](#) Post Harvest Management of Horticultural Crops
- [PLSC 470.3](#) Plant Propagation
- [PLSC 492.3](#) Project Thesis in Plant Sciences or [PLSC 494.6](#) Research Thesis in Plant Sciences (3 credit units count as restricted elective)

Choose 6 credit units (Agribusiness and Entrepreneurship)

- [AGRC 445.3](#) Experiential Learning in the Workplace
- [AREC 230.3](#) Innovation and Entrepreneurship
- [AREC 346.3](#) Principles of Selling
- [AREC 347.3](#) Agribusiness Marketing Management
- [COMM 204.3](#) Introduction to Marketing
- [COMM 225.3](#) Introduction to Accounting and Financial Literacy for Entrepreneurs

Choose 18 credit units of restricted electives:

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

- [AGRC 211.3](#) Global Food Security
- [AGRC 311.3](#) International Study Tour
- [AGRC 445.3](#) Experiential Learning in the Workplace
- [AREC 230.3](#) Innovation and Entrepreneurship
- [AREC 254.3](#) Agribusiness Taxation
- [AREC 346.3](#) Principles of Selling
- [AREC 347.3](#) Agribusiness Marketing Management
- [BIOL 324.3](#) Plants and Human Affairs
- [BIOL 342.3](#) Fungi Environment and People

- [BIOL 345.3](#) Introductory Plant Pathology
- [BIOL 365.3](#) Insect Diversity and Evolution
- [COMM 204.3](#) Introduction to Marketing
- [GEOG 222.3](#) Geomatics
- [GEOG 240.3](#) Sustainable Cities and Regions
- [NUTR 120.3](#) Basic Nutrition
- any 200-level or above course in PLSC, EVSC, FABS, RRM, or SLSC not required for the major or courses approved by an advisor. If a student chooses to register in [PLSC 494.6](#) Research Thesis in Plant Sciences, 3 credit units will be applied here.

Open Electives

- Choose 3 credit units open electives

University Course Challenge – March 2026

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)

Chemistry

Minor program revisions

Bachelor of Science Honours, Double Honours, Four-year and Three-year and Minor in Chemistry

Update introductory course options.

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

C4 Major Requirement (54 credit units)

Junior course requirements (~~3~~ 6 credit units):

- ~~CHEM 112.3~~ General Chemistry I Structure Bonding and Properties of Materials and ~~CHEM 115.3~~ General Chemistry II Chemical Processes; or ~~CHEM 146.3~~ General Chemistry for Engineering-
- CHEM 112.3 General Chemistry I Structure Bonding and Properties of Materials or CHE 113.3 Unit Operations in Chemical Process Engineering
- CHEM 115.3 General Chemistry II Chemical Processes or CHEM 146.3 General Chemistry for Engineering

Senior course requirements (48 ~~54~~ credit units):

- 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
- CHEM 255.3 Bio Organic Chemistry
- CHEM 322.3 Analytical Chemistry II
- CHEM 332.3 Inorganic Chemistry II
- CHEM 344.3 Introductory Chemical Quantum Mechanics
- CHEM 402.0 Seminar

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

- CHEM 380.3 3rd Year Research
- CHEM 482.3 4th Year Research
- CHEM 483.6 4th Year Research

Choose **18 -24 credit units** from the following ~~to meet the 54 credit unit requirement:~~

- BMIS 405.3
- CHE 223.3 Chemical Thermodynamics
- CHEM — 200-Level, 300-Level, 400-Level

- Up to 6 credit units from [BMSC 320.3](#) Nucleic Acids From Central Dogma to Human Disease, [BMIS 310.3](#) Proteins and Enzymes, [BMIS 412.3](#) Methods for Engineering Designer Proteins

Bachelor of Science Four-year (B.Sc. Four-year) - Chemistry
C4 Major Requirement (48 credit units)

Junior course requirements (3-6 credit units):

- ~~[CHEM 112.3](#) General Chemistry I Structure Bonding and Properties of Materials and [CHEM 115.3](#) General Chemistry II Chemical Processes; or [CHEM 146.3](#) General Chemistry for Engineering~~
- [CHEM 112.3](#) General Chemistry I Structure Bonding and Properties of Materials or [CHE 113.3](#) Unit Operations in Chemical Process Engineering
- [CHEM 115.3](#) General Chemistry II Chemical Processes or [CHEM 146.3](#) General Chemistry for Engineering

Senior course requirements (42-45 credit units):

- [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
- [CHEM 402.0](#) Seminar

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

- [CHEM 380.3](#) 3rd Year Research
- [CHEM 482.3](#) 4th Year Research
- [CHEM 483.6](#) 4th Year Research

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

- [CHEM 255.3](#) Bio Organic Chemistry
- [CHEM 322.3](#) Analytical Chemistry II
- [CHEM 332.3](#) Inorganic Chemistry II
- [CHEM 344.3](#) Introductory Chemical Quantum Mechanics

Choose **15-18 credit units** from the following ~~to meet the 48 credit unit requirement:~~

- BMIS 405.3
- [CHE 223.3](#) Chemical Thermodynamics
- [CHEM — 200-Level, 300-Level, 400-Level](#)
- Up to 6 credit units from [BMSC 320.3](#) Nucleic Acids From Central Dogma to Human Disease, [BMIS 310.3](#) Proteins and Enzymes, [BMIS 412.3](#) Methods for Engineering Designer Proteins

Bachelor of Science Three-year (B.Sc. Three-year) - Chemistry
C4 Major Requirement (30 credit units)

Junior course requirements (3-6 credit units):

- ~~CHEM 112.3~~ General Chemistry I Structure Bonding and Properties of Materials and ~~CHEM 115.3~~ General Chemistry II Chemical Processes; or ~~CHEM 146.3~~ General Chemistry for Engineering
- CHEM 112.3 General Chemistry I Structure Bonding and Properties of Materials or CHE 113.3 Unit Operations in Chemical Process Engineering
- CHEM 115.3 General Chemistry II Chemical Processes or CHEM 146.3 General Chemistry for Engineering

Senior course requirements (24-~~27~~ credit units):

- 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

Choose **12-15 credit units** from the following ~~to meet the 30 credit unit requirement~~:

- CHEM — 200-Level, 300-Level, 400-Level

Bachelor of Science Double Honours - Chemistry - Major 1

C4 Major Requirement (36 credit units)

Junior course requirements (~~3~~-6 credit units):

- ~~CHEM 112.3~~ General Chemistry I Structure Bonding and Properties of Materials and ~~CHEM 115.3~~ General Chemistry II Chemical Processes; or ~~CHEM 146.3~~ General Chemistry for Engineering
- CHEM 112.3 General Chemistry I Structure Bonding and Properties of Materials or CHE 113.3 Unit Operations in Chemical Process Engineering
- CHEM 115.3 General Chemistry II Chemical Processes or CHEM 146.3 General Chemistry for Engineering

Senior course requirements (30 -~~33~~ credit units):

- 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
- CHEM 255.3 Bio Organic Chemistry
- CHEM 322.3 Analytical Chemistry II
- CHEM 332.3 Inorganic Chemistry II
- CHEM 344.3 Introductory Chemical Quantum Mechanics
- CHEM 402.0 Seminar

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

- CHEM 380.3 3rd Year Research
- CHEM 482.3 4th Year Research
- CHEM 483.6 4th Year Research

Alternatively, up to 6 credit units of 300 or 400-level research courses in a discipline other than chemistry can be taken with the approval of a faculty advisor in the Department of Chemistry. The approval process will imply that the respective number of credit units will be substituted with other CHEM courses.

~~If an additional 3 credit units are required to meet the 36 credit unit requirement, select from the following:—~~

- ~~CHEM — 200-Level, 300-Level, 400-Level~~

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

Double Honours - Chemistry - Major 2 Requirements (36 credit units)

Junior course requirements (~~3~~ 6 credit units):

- ~~CHEM 112.3 General Chemistry I Structure Bonding and Properties of Materials and CHEM 115.3 General Chemistry II Chemical Processes ; or CHEM 146.3 General Chemistry for Engineering~~
- CHEM 112.3 General Chemistry I Structure Bonding and Properties of Materials or CHE 113.3 Unit Operations in Chemical Process Engineering
- CHEM 115.3 General Chemistry II Chemical Processes or CHEM 146.3 General Chemistry for Engineering

Senior course requirements (30 ~~—33~~ credit units):

- 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
- CHEM 255.3 Bio Organic Chemistry
- CHEM 322.3 Analytical Chemistry II
- CHEM 332.3 Inorganic Chemistry II
- CHEM 344.3 Introductory Chemical Quantum Mechanics
- CHEM 402.0 Seminar

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

- CHEM 380.3 3rd Year Research
- CHEM 482.3 4th Year Research
- CHEM 483.6 4th Year Research

Alternatively, up to 6 credit units of 300 or 400-level research courses in a discipline other than chemistry can be taken with the approval of a faculty advisor in the Department of Chemistry. The approval process will imply that the respective number of credit units will be substituted with other CHEM courses.

~~If an additional 3 credit units are required to meet the 36 credit unit requirement, select from the following:—~~

- ~~CHEM — 200-Level, 300-Level, 400-Level~~

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

Chemistry - Minor

Students, who, in conjunction with an Arts & Science degree in a different subject, take ~~the following 48 credit units or more of Chemistry courses~~ will receive a Minor in Chemistry. ~~At least 3 credit units must be at the 300- or 400-level. Courses listed under the “C4 Major Requirement”, “J4 Major Requirement”, “M4 Core Requirement” or “M5 Major Requirement” of the student’s program Major cannot be used to meet requirements for the minor.~~

The Minor average in Chemistry will be calculated using the grades earned in all courses eligible to be included in the Minor program requirements. Students must complete at least two-thirds of the program requirements (rounded to the nearest highest multiple of 3 credit units) using courses offered by the University of Saskatchewan to meet the Residency requirement.

Requirements (18 credit units)

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

- **CHEM — 100-Level, 200-Level, 300-Level, 400-Level**
- **CHE 113.3** Unit Operations in Chemical Process Engineering

~~At least 3 credit units must be at the 300- or 400-level. Courses listed under the “C4 Major Requirement”, “J4 Major Requirement”, “M4 Core Requirement” or “M5 Major Requirement” of the student’s program Major cannot be used to meet requirements for the minor.~~

Rationale: Prerequisite changes are proposed concurrently to 200-level CHEM courses. The Department of Chemistry teaches two 100-level courses for the Engineering Common First Year program, CHEM 142.1 and CHEM 146.3. The former is a 4-week mini-course with very little laboratory work. The latter is currently a full course with a suite of labs, which as created is considered equivalent to CHEM 115. In the summer of 2025 the College of Engineering requested that the laboratory component of CHEM 146 be reduced by 25% (remove two labs out of eight). The College of Engineering and the Department of Chemistry agreed that the two labs would be moved to CHE 113.3, which is required for students in the Chemical Engineering and Environmental Engineering programs. CHE 113 is offered in April of each year with instruction covered by Engineering and the lab operated by Chemistry.

200-level CHEM courses have strong laboratory components that require adequate background preparation to prepare students to be successful and safe. With the reduction in labs in CHEM 146 the Department finds that it no longer provides sufficient background. For comparison, Arts and Science students taking CHEM 112 and CHEM 115 will have completed sixteen laboratory exercises but following the changes students going through CHEM 146 will have only six. The best available solution is to add CHE 113 to CHEM 146 as a prerequisite pathway for these courses.

At the same time, the Department wishes to maintain a pathway into Chemistry programs for students who wish to take them as a second degree or after completing only the Engineering Common First Year. These students may not have credit for CHE 113, and may no longer have access to take it. For these students, the option to take CHEM 146 and then CHEM 112 will ensure a pathway into these programs.

Minor course revisions

CHEM 115.3 General Chemistry II Chemical Processes

Remove equivalence with CHEM 146.3 and replace with mutual exclusion.

Rationale: See Chemistry program revision above. Reduction in the laboratory component in CHEM 146 means that these two courses no longer provide the same level of preparation for senior laboratory work.

CHEM 146.3 General Chemistry for Engineering

Remove equivalence with CHEM 115.3 and replace with mutual exclusion.

Rationale: See CHEM 115 above.

CHEM 221.3 Analytical Chemistry I

CHEM 231.3 Inorganic Chemistry I

CHEM 250.3 Introduction to Organic Chemistry

Prerequisite change:

Current prerequisite(s): CHEM 115.3 or CHEM 146.3

Proposed prerequisite(s): CHEM 115.3; or CHEM 146.3 and CHE 113.3; or CHEM 112.3 and CHEM 146.3.

Rationale: See Chemistry program revision above.

CHEM 242.3 Thermodynamics and Kinetics

Prerequisite change:

Current prerequisite(s): CHEM 115.3 or CHEM 146.3; and one of MATH 110.3, MATH 123.3, MATH 133.4 or MATH 176.3

Proposed prerequisite(s): (CHEM 115.3; or CHEM 146.3 and CHE 113.3; or CHEM 112.3 and CHEM 146.3); and one of MATH 110.3, MATH 123.3, MATH 133.4 or MATH 176.3.

Rationale: See Chemistry program revision above.

Chemistry Foundations I

Minor program revisions

Update introductory course options.

Requirements (15 credit units)

- **CHEM 112.3** General Chemistry I Structure Bonding and Properties of Materials or **CHE 113.3** Unit Operations in Chemical Process Engineering
- **CHEM 115.3** General Chemistry II Chemical Processes or **CHEM 146.3** General Chemistry for Engineering

~~Choose 6 credit units from the following:-~~

- ~~• **CHEM 112.3** General Chemistry I Structure Bonding and Properties of Materials and~~
- ~~• **CHEM 115.3** General Chemistry II Chemical Processes; or~~
- ~~• **CHEM 142.1** Global Impact of Chemistry for Engineering, **CHEM 146.3** General Chemistry for Engineering, and 2 credit units of GE courses-~~

Choose 9 credit units from the following:

- **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

Chemistry Foundations II

Minor program revisions

Update to admission requirements:

Admission requirements

Completion of 15 credit units CHEM courses including [CHEM 112.3](#) General Chemistry I Structure Bonding and Properties of Materials or [CHE 113.3](#) Unit Operations in Chemical Process Engineering; [CHEM 115.3](#) General Chemistry II Chemical Processes or [CHEM 146.3](#) General Chemistry for Engineering; CHEM 221.3; CHEM 231.3; and CHEM 250.3.

Rationale: The update to the introductory course pathways impacts the Chemistry Foundations I Certificate which serves as the admission requirement for this program.

Item for Information

Several changes to the Mathematics and Practical and Applied Arts Teaching Areas were approved and implemented in the Bachelor of Education Early/Middle Years and Secondary programs; however, the changes were missed being made in the Music Education programs that also make use of the Teaching Areas. These approved changes are now being applied to the Music Education programs for consistency.

Bachelor of Music (Music Education) (B.Mus.(Mus.Ed.)) - Early/Middle Years (G1 Teaching Area 2) - Mathematics (12 credit units)

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

- ~~COMM 104.3~~
- MATH — 100-Level
- ~~STAT — 100-Level~~

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

- ~~CE 316.3~~
- ~~COMM 207.3~~
- ~~COMM 306.3~~
- ~~COMM 393.3~~
- ECON 306.3
- ECON 450.3
- ~~GE 210.3~~
- GEOG 302.3
- MATH — 200-Level, 300-Level, 400-Level
- MATH 163.3
- MATH 164.3
- PLSC 214.3
- PSY 233.3
- PSY 234.3
- SOC 225.3
- SOC 325.3
- STAT — 200-Level, 300-Level, 400-Level

Bachelor of Music (Music Education) (B.Mus.(Mus.Ed.)) - Secondary (G1 Teaching Area 2) – Practical and Applied Arts (15 credit units)

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

Agriculture

- [AGRC 111.3](#) Introduction to Plant and Soil Sciences
- [AGRC 112.3](#) Animal Agriculture and Food Science
- [AREC 230.3](#) Innovation and Entrepreneurship
- [FABS 110.3](#) The Science of Food
- [FABS 222.3](#) Improving Food Security through Food Science and Technology
- [PLSC 202.3](#) Introductory Precision Agriculture

- [PLSC 213.3](#) Principles of Plant Ecology
- [PLSC 235.3](#) Urban Agriculture
- [PLSC 311.3](#) General Apiculture
- [SLSC 232.3](#) Soil Genesis and Classification
- [SLSC 240.3](#) Agricultural Soil Science

Business and Financial Literacy

- [COMM 101.3](#) Introduction to Business
- [COMM 105.3](#) Introduction to Organizational Behaviour
- [COMM 201.3](#) Introduction to Financial Accounting
- [COMM 204.3](#) Introduction to Marketing
- [COMM 210.3](#) Introduction to Management Accounting
- [COMM 225.3](#)
- [COMM 306.3](#) Ethics and Strategic Decision Making
- [COMM 352.3](#) Marketing Strategy

Communication, Media and Design

- [ART 161.3](#) Foundation in Photography I
- ART 216.3
- [ART 217.3](#) Photography II
- [ART 220.3](#) Drawing and Related Work II A
- [ART 221.3](#) Drawing and Related Work II B
- DRAM – 100-Level, 200-Level, 300-Level, 400-Level

Entrepreneurship

- [COMM 101.3](#) Introduction to Business
- [COMM 104.3](#) Foundations of Business Statistics
- [COMM 201.3](#) Introduction to Financial Accounting
- [COMM 203.3](#) Introduction to Finance
- [COMM 204.3](#) Introduction to Marketing
- [COMM 225.3](#)
- [COMM 349.3](#) Introduction to Entrepreneurship

College of Engineering - University Course Challenge Submission, MARCH 2026

The following changes have been approved through the College of Engineering and are being submitted here for approval through the University Course Challenge.

Contact: Temi Ojo (temitope.ojo@usask.ca)

Civil Engineering

Motion: To change the prerequisite requirements for CE 320.3 (*Project Engineering*), beginning in the 2026-27 academic year, from the following:

- **Prerequisite(s):** CE 395.3 or ENVE 201.3.
- **Prerequisite(s) or Corequisite(s):** GE 348.3.

Restriction(s): Students must be in the third or fourth year of their studies to register in this course.

To the following:

- **Prerequisite(s):** 12 credit units from the following group of courses:
CE 202.3, CE 212.3, CE 213.3, CE 225.3, GE 210.3, GEOE 218.3.
- **Prerequisite(s) or Corequisite(s):** GE 348.3.

Restriction(s): Students must be in the third or fourth year of their studies to register in this course.

Rationale: In the revised CE program, CE 395.3 (*Transportation Design Project*) is offered in Winter Term, while CE 320.3 is offered in Fall Term. As a result, CE 395.3 can no longer serve as a prerequisite for CE 320.

To ensure students are adequately prepared, enrollment in CE 320.3 should be limited to those in their third or fourth year of study.

The new prerequisites ensure this alignment in a way that is straightforward to implement. Because the prerequisite courses are common to the Civil, Geological, and Environmental Engineering programs, students from all three programs will be eligible to register in CE 320.

University Course Challenge – March 2026

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

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

ANIMAL AND POULTRY SCIENCE

New Courses:

ANSC 875.3 Advanced Field Studies in Northern Social-Ecological Systems with Indigenous People

Course Description: This arctic field course provides graduate students with specific training and experience in considering Social-Ecological Systems and conducting advanced level field data collection and advanced data analysis approaches in collaboration with Indigenous co-instructors. The course starts and ends in Churchill, Manitoba and students are responsible for their own travel arrangements and costs. This ANSC 898 course is offered together with the undergraduate course ANBI475. Prior to initiating northern fieldwork, students will work closely with the course instructor to develop an independent research project proposal that will normally be based on independent research design and fieldwork. Students will complete an independent research project and present the results orally and in the form of a manuscript formatted as a peer-reviewed paper, keep a daily journal, participate in a journal club discussion, and will be evaluated on their field skills acquired throughout the course.

Permission required: Instructor permission required

Restrictions: Enrollment in a graduate program

Note: Students with credit for ANBI 475 will not receive credit for this course.

Rationale: Dr. Ryan Brook has been teaching this course as an undergraduate class since 2005 and there has been growing interest from graduate students to also be able to take it for graduate level credit. He has offered twice as an 898 with very good results and would like to regularize it. Consultation has occurred with Biology, SENS, Geography and Planning.

EDUCATIONAL FOUNDATIONS

New Courses:

EFDT 810.3 Critical Digital Education and Anti-Oppressive Pedagogy

Course Description: This course examines how critical digital and anti-oppressive education are intertwined in complex ways. Drawing from diverse theoretical frameworks and empirical studies, the course explores how current extremist ideologies are normalized, authorized, and circulated through on-line media. How this process naturalizes White/Western supremacist patriarchal ideologies and distrust of public education systems will be examined. The course also investigates how on-line conspiracy theories, disinformation, and misinformation exacerbate political polarization and violations of Indigenous, human, environmental, and democratic rights. How critical digital education can both strengthen and impede anti-oppressive pedagogies, and specific innovative prevention and intervention pedagogical methods, will be explored.

Weekly Hours: 3S

Restrictions: Course open to students in Educational Foundations, College of Education

Rationale: Students will benefit from examining online overt and covert oppressive discourse and how to counter online disinformation and extremism through anti-oppressive K to 12 pedagogy. The course complements EFDT 844 (anti-racist theory and practice) by extending anti-racist theory through intersectional analyses (class, gender, ability, etc.) of online oppressive processes that threaten intergenerational democratic, Indigenous, environmental, and human rights. The course also offers interdisciplinary theories (anti-oppressive, critical digital education, political extremism, and authoritarian studies) and does not require prerequisite courses. With a focus on disinformation and the increasing threat of authoritarianism within Western liberal democracies, the course is relevant and responds to the experiences and fears of practicing teachers, students, and education communities. The course has a Canadian K to 12 focus and makes important interconnections with oppressive digital media issues and patterns at global levels, considering multiple consequences of undermining democratic institutions and trust in experts. It is important for students to consider, from a non-partisan lens, how social and digital media, including artificial intelligence, can and is used to manipulate the public in ways that sabotage the freedoms Canadians often take for granted, which are also protected within Canadian school curricula and policies. Currently, no such University of Saskatchewan graduate or undergraduate teacher education course exists, and it is hoped that EFDT will offer an undergraduate version of the course in the future. The course has been taught twice and was well-received by racially diverse graduate students. Students appreciate learning from current digital media scholarship and that the course is offered from a non-partisan view that critiques extremism within all political ideologies. Specifically, students who have taken the course stress the value of collaborative learning to make direct connections with the course readings and resources and 1) current societal and school conditions, 2) how online media impacts children and youth, and 3) practical and creative prevention and intervention methods.

EFDT 846.3 Foundations of Critical Race Theory

Course Description: This course introduces students to foundational critical race theory (CRT) legal scholarship, tenets, and analytical tools. Through seminars and case studies, we will consider how CRT can be applied to Canadian education systems and current political contexts in ways that contribute to intersectional decolonization and racial justice. We will also examine how CRT can assist with understanding and countering normalized racism, structural racial violence, White dominance, and extremism through cross-racial coalitions within liberal democratic societies founded on colonialism. How CRT has been misunderstood and appropriated will be a focus of the course.

Weekly Hours: 3S

Restrictions: Course open to students in Educational Foundations, College of Education

Rationale: College of Education graduate students will benefit from examining the ontological and epistemological underpinnings of critical race intersectional (CRI) qualitative research and various methodological applications to preK to 12 and higher education. The course complements EFDT 844 (anti-racist theory and practice) through examinations of CRI qualitative research and can be taken with, before, or after EFDT 844. In addition, the course responds to Canadian Charter, Indigenous, and International human rights, as well as school division and post-secondary commitments to equity, reconciliation, decolonization, and anti-racism. Specifically, the course assists students with understanding the value and influence of research in the development and implementation of institutional policies and practices, and how CRI research can assist education systems with serving all students and society. Currently, the University of Saskatchewan does not offer a CRI qualitative

graduate research methods course, and this course will contribute to the College of Education and University's commitments to anti-racist education. Furthermore, College of Education thesis and PhD students often examine issues of race, racism, heteropatriarchy, decolonization, reconciliation, and intersectional oppression, and this proposed course will provide valuable knowledge and discussions concerning relationships amongst theory and research, and the political ethical responsibilities of researchers. Students enrolled in the course-based program will also benefit from learning about CRI research processes. In Saskatchewan, and across Canada, a lack of CRI preK to 12 qualitative research exists despite intergenerational documentation of racial, heteropatriarchal, ableist, classist, ethnocentric, and land-based violence and subjugation, reports of White nationalism, and authoritarian threats. Grounded in critical race theory, the course equips students with introductory knowledge and thematic coding skills needed to engage with research in ways that can protect, enact, and extend fundamental rights and freedoms through and within preK to 12 and post-secondary systems.

EFDT 847.3 Critical Race Intersectional Qualitative Research

Course Description: This course investigates how critical race theory (CRT) has been applied to K to 12 and higher education qualitative research, focusing on intersectional oppression. Examining various qualitative methods and methodologies, students will design their own preK to 12 or higher education pilot project, selecting a topic of their choice. The pilot project will assist with developing analytical skills regarding critical race intersectional thematic coding processes using NVivo software. Through independent reading and discussions, the course also reviews historical oppressive education research programs. How knowledge systems are racialized and gendered will be considered, in addition to relationships amongst research, racial justice, and decolonization. Integrated throughout the course, students will discuss their positionality as researchers, investigate the value of reflexivity, and examine the political implications and ethical responsibilities of critical race intersectional qualitative education research.

Weekly Hours: 3S

Restrictions: Course open to students in Educational Foundations, College of Education

Rationale: College of Education graduate students will benefit from examining the ontological and epistemological underpinnings of critical race intersectional (CRI) qualitative research and various methodological applications to preK to 12 and higher education. The course builds on and complements EFDT 844 (anti-racist theory and practice) through examinations of CRI qualitative research. In addition, the course responds to Canadian Charter, Indigenous, and International human rights, as well as school division and post-secondary commitments to equity, reconciliation, decolonization, and anti-racism. Specifically, the course assists students with understanding the value and influence of research in the development and implementation of institutional policies and practices, and how CRI research can assist education systems with serving all students and society. Currently, the University of Saskatchewan does not offer a CRI qualitative graduate research methods course, and this course will contribute to the College of Education and University's commitments to anti-racist education. Furthermore, College of Education thesis and PhD students often examine issues of race, racism, heteropatriarchy, decolonization, reconciliation, and intersectional oppression, and this proposed course will provide valuable knowledge and discussions concerning relationships amongst theory and research, and the political ethical responsibilities of researchers. Students enrolled in the course-based program will also benefit from learning about CRI research processes. In Saskatchewan, and across Canada, a lack of CRI preK to 12 qualitative research exists despite intergenerational documentation of racial, heteropatriarchal,

ableist, classist, ethnocentric, and land-based violence and subjugation, reports of White nationalism, and authoritarian threats. Grounded in critical race theory, the course equips students with introductory knowledge and thematic coding skills needed to engage with research in ways that can protect, enact, and extend fundamental rights and freedoms through and within preK to 12 and post-secondary systems.

FOR INFORMATION

Kinesiology

KIN 990.0 Seminar

Current description: Review of related scientific studies. Graduate students are required to attend and present papers during their period of candidacy

Proposed description: Intended for Kinesiology graduate students to actively participate in research-related discussions, professional development opportunities, and to engage in active learning experiences to assist them in developing, conducting, interpreting, and translating research in kinesiology to academic and non-academic audiences.

Rationale for revisions: Existing description is out of date with what current KIN 990 offerings include.

Johnson Shoyama Graduate School of Public Policy

JSGS 990.0: Public Policy Seminar

Current description: A required non-credit seminar for graduate students in the MPP and PhD programs. The course features reports and discussions on current research and policy issues presented by students, researchers, policy practitioners, and faculty. Students must attend at least 25 seminars and present their own research in one session before completing their program of study.

Proposed description: A required non-credit seminar for graduate students in the MPP and PhD programs. The course features reports and discussions on current research and policy issues presented by students, researchers, policy practitioners, and faculty. Students must attend at least 8 seminars per year and present their own research (in one session for MPP or two sessions for PhD) before completing their program of study.

Psychology and Health Studies

Rationale for changes: The title changes are being made to better reflect the content that is being taught.

PSY 813.3: Psychological Assessment I

Current Title: Psychological Assessment I

Proposed Title: Mental health, personality, and diagnostic assessment of individual differences

PSY 814.3: Psychological Assessment II

Current Title: Psychological Assessment II

Proposed Title: Theories and models of intelligence and their application in cognitive assessment

PSY 831.3 Psychopathology and Individual Differences I

Current Title: Psychopathology and Individual Differences I

Proposed Title: Psychopathology and individual differences across the lifespan

PSY 841.3 Psychopathology and Individual Differences II

Current title: Psychopathology and Individual Differences II

Proposed title: Child socio-emotional and cognitive assessment

College of Law, March 2026 University Course Challenge

The following was approved by the College of Law on May 13, 2025 and is being submitted to University Course Challenge for final approval, as follows:

New Course Proposal

Law 489.3 Law Student Practicum (short title)

Long Title: Experiential Learning Law Student Practicum: _____ (specific placement name)

Students will be invited to apply annually for available practicum placements as advertised by the College of Law. Sections of this course will reflect the unique, supervised opportunity they participate in for pass/fail academic credit.

Restriction: open to upper year JD students accepted to participate in a practicum placement.

Rationale: Creation of a selected topics shell course within the JD to support the growing number and diversity of experiential learning (EL) opportunities. This course would serve as a flexible mechanism for administratively and academically managing individualized and partner-based practicum placements, while also ensuring that students receive transcript recognition reflective of their specific experiences. A shell course model has been successfully implemented for LAW 495 – Individual Directed Research, whereby the course structure is regularized and approved at the college level, while individual sections are approved on a rolling basis by the ADA.