



Academic Programs Committee of Council

University Course Challenge

Scheduled posting: April 2022

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 Agriculture and Bioresources
College of Arts and Science
College of Engineering
College of Graduate and Postdoctoral Studies
College of Pharmacy and Nutrition

Approval: Date of circulation: April 14, 2022
 Date of effective approval if no challenge received: May 1, 2022

Next scheduled posting:

The next scheduled posting will be May 16, 2022, with a submission deadline of **May 12, 2022**. Urgent items can be posted on request.

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

Environmental Science

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

Minimum Requirements for Degree (120 credit units)

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. Block transfer students do not require a minor but instead must take a prescribed number of courses from a list of approved restricted electives.

Year 1 (30 credit units)

- [AGRC 110.3](#) Scientific Literacy and Communication for the Agricultural Sciences
- [AGRC 111.3](#) Discovery in 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 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

Choose 3 credit units from the following:

- [ANTH 302.3](#) The Practice of Ethnography
- [ANTH 310.3](#) Anthropology of Gender
- [ANTH 405.3](#) Anthropology of Disaster and Disruption
- [ANTH 421.3](#) Anthropology in Time: Early Influences
- [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)

- ~~[ENVS 401.3](#) Sustainability in Action~~
- [GEOG 222.3](#) Introduction to Geomatics

Choose 3 credit units from the following:

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

- ENVS 401.3 Sustainability in Action
- EVSC 485.3 Environmental Science Capstone Course
- EVSC 492.3 Research and Term Paper
- EVSC 494.6 Research and Thesis (3 credit units count as restricted elective)
- RRM 421.6 Group Project in Renewable Resource Management (3 credit units count as restricted elective)

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
- [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 420.3](#) Environmental Fate and Transport of Toxic Substances
- [EVSC 421.3](#) Contaminated Site Management and Remediation
- [GEOG 225.3](#) Hydrology of Canada
- [GEOG 233.3](#) Introduction to Weather and Climate
- [GEOG 325.3](#) River Systems
- [GEOG 333.3](#) Global Climate Change
- [GEOL 229.3](#) Introductory Geochemistry
- [SLSC342.3](#) Agronomic Soil Microbiology

- [SLSC350.3](#) Terrestrial Restoration

Choose 3 credit units Field Courses from the following:

- [EVSC 380.3](#) Grassland Soils and Vegetation
- [SLSC480.3](#) Soils and Boreal Landscapes

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
- [PLSC 201.3](#) Field Crops of Western Canada or [PLSC 222.3](#) Introduction to Field Crops
- [PLSC 401.3](#) Sustainable Crop Production
- [PLSC 422.3](#) Rangeland Ecology and Management
- [PLSC 425.3](#) Forest Ecology
- [SLSC312.3](#) Soil Fertility and Fertilizers

Choose 6 credit units from the following:

- [SLSC232.3](#) Soil Genesis and Classification
- [SLSC313.3](#) Environmental Soil Chemistry
- [SLSC322.3](#) Environmental Soil Physics
- [SLSC444.3](#) 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

Soil 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

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- [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
- [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](#)
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- [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 Science

- [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](#)
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- [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

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- [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)

- [CHEM 231.3](#) Inorganic Chemistry I or [BMSC 200.3](#) Biomolecules
- [EVSC 210.3](#) Environmental Physics
- [FABS 212.3](#) Agrifood and Resources Microbiology OR [BMSC 210.3](#) Microbiology
- [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
- [SLSC 240.3](#) Agricultural Soil Science or [EVSC 220.3](#) Environmental Soil Science

Choose 3 credit units from the following:

- [ANTH 302.3](#) The Practice of Ethnography
- [ANTH 310.3](#) Anthropology of Gender
- [ANTH 405.3](#) Anthropology of Disaster and Disruption
- [ANTH 421.3](#) Anthropology in Time: Early Influences
- [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 9 credit units open electives

Years 3 & 4 (60 credit units)

- [AREC 238.3](#) Natural Resource Economics
- [EVSC 380.3](#) Grassland Soils and Vegetation
- [GEOL 206.3](#) Earth Systems or [GEOG 120.3](#) Introduction to Global Environmental Systems
- [PLSC 214.3](#) Statistical Methods or [STAT 245.3](#) Introduction to Statistical Methods
- [SLSC232.3](#) Soil Genesis and Classification
- [SLSC312.3](#) Soil Fertility and Fertilizers
- [SLSC313.3](#) Environmental Soil Chemistry
- [SLSC322.3](#) Environmental Soil Physics
- [SLSC342.3](#) Agronomic Soil Microbiology
- [SLSC350.3](#) Terrestrial Restoration
- [SLSC444.3](#) Soil Ecology

- [SLSC460.3](#) Forest Soils or [SLSC480.3](#) Soils and Boreal Landscapes
- ~~[SLSC492.3](#) Research and Term Paper or [SLSC494.6](#) Research and Thesis (3 credit units count as restricted elective)~~

Choose 3 credit units from the following:

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

- ENVS 401.3 Sustainability in Action
- EVSC 485.3 Environmental Science Capstone Course
- RRM 421.6 Group Project in Renewable Resource Management (3 credit units count as restricted elective)
- SLSC 492.3 Research and Term Paper
- SLSC 494.6 Research and Thesis (3 credit units count as restricted elective)

Choose 3 credit units from the following:

- [PLSC 222.3](#) Introduction to Field Crops or [PLSC 201.3](#) Field Crops of Western Canada
- [PLSC 422.3](#) Rangeland Ecology and Management
- [PLSC 425.3](#) Forest Ecology

Restricted Electives

- Choose 9 credit units of electives, as approved by the Soil Science Program Advisor (may include 3 credit units of [SLSC494.6](#) Research and Thesis)

Open Electives

- Choose 9 credit units open electives

University Course Challenge – April 2022

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)

Cellular, Physiological, and Pharmacological Sciences

Minor course revisions:

ACB 221.3 Gross Anatomy

New subject code: **CPPS 221.3** (effective May 2023)

New equivalent course: CPPS 310.3

CPPS 310.3 Basic Human Anatomy

New equivalent course: ACB 221.3 (to be CPPS 221.3)

Rationale: ACB 221.3 will now use the same subject code as all other undergraduate courses offered by the Department of Anatomy, Physiology, and Pharmacology. ACB 221.3 (CPPS 221.3; restricted to students in Kinesiology) and CPPS 310.3 cover similar content, and making them officially equivalent will ensure that students who transfer colleges/pursue an additional degree will not have to repeat the material. Joel Lanovaz, Associate Dean Academic, College of Kinesiology, confirmed that this change was approved by the Kinesiology Faculty Council on February 17, 2022.

Chinese

New course(s):

CHIN 212.3 Intermediate Chinese Literature and Writing I

3 Lecture Hours

This course offers a review of the spoken Chinese language, and instruction in intermediate level Chinese reading and writing. Instruction includes language development (language, grammar, sentence structure and segments of paragraphs), and a range of readings, analyses and discussions of renowned writers and contemporary Chinese literature. Texts and topics include different writings, translations, and verses in contemporary poetry, historical idioms, Chinese riddle-phrases, proverbs, and business and personal correspondence.

Prerequisite(s): CHIN 204, or equivalent, or permission of the department

Note: Students with credit for CHIN 214.3 may not take this course for credit.

Instructor: Eleanor Shia

Rationale: This course replaces CHIN 214.3 (Advanced Intermediate Chinese I), as the title of that course confused our students. The new course has a more attractive/effective title and description and conforms to the course description system used in other language sections, such as Spanish.

Course deletion(s):

CHIN 214.3 Advanced Intermediate Chinese I

Rationale: This course is replaced by CHIN 212.3 (Intermediate Chinese Literature and Writing I).

Minor course revisions:

CHIN 217.3 Advanced Intermediate Chinese II

Prerequisite change:

Old prerequisite(s): CHIN 214.3 or equivalent

New prerequisite(s): CHIN 212.3, CHIN 214.3, or equivalent

Rationale: CHIN 214 will be replaced by CHIN 212.

Computer Science

Minor program revisions:

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

Add GE 449.3 as an alternate to PHIL 232.3.

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

C4 Major Requirement (54 credit units)

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

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

C4 Major Requirement (54 credit units)

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

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

C4 Major Requirement (51 credit units)

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

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

C5 Electives Requirement (24 credit units)

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

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

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

Bachelor of Science Double Honours - Computer Science - Major 1

C5 Electives Requirement (45 credit units)

Major 2 (36-42 credit units)

- Double Honours requirements in second discipline

Open Electives (3-9 credit units)

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

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

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

Rationale: Adding [GE 449.3](#) (Engineering in Society) as an alternate to [PHIL 232.3](#) will allow students who have completed a degree in Engineering to avoid redundant work as part of a second degree in Computer Science, without lowering the graduation standards or jeopardizing external accreditation. This

change will reinstate the previous situation where B.Eng. grads could complete a CS second degree in one year (30 credit units). With careful course planning through the UGSO, graduates with a B.Eng. in Computer Engineering will be able to complete a Four-year B.Sc. in CS with 30 extra credit units, and other B.Eng. students will be able to complete the Three-year B.Sc. in CS with that same investment. This affects approximately 3 – 5 students per year.

GE 449.3 contains much of the same material on ethics as PHIL 232.3, as well as a deeper investigation of professional responsibilities. Enrolment in GE 449 is not open to students outside of the College of Engineering, so enrolment in PHIL 232.3 will not change significantly. The proposal does not jeopardize our CIPS accreditation for the Four-year or Honours degrees. Of the other 5 accredited CS programmes in Canada, two of them [Ottawa and York] are housed in an Engineering College and draw on the engineering ethics course in their programme, and one [UNB] lists an engineering ethics course as part of their programme, despite not being part of an Engineering college. The other two demand an ethics course from within the department. Our department used to offer such a course (CMPT 408), but recently we elected to move that course to the ethics experts in Philosophy, who introduced PHIL 232, which also satisfies the accreditation requirements.

Upon approval of these revisions, GE 449.3 will be added to the College of Arts and Science' list of courses from other colleges that may be used for major-specific or elective credit in Arts & Science programs.

Drama

Program level deletion:

Bachelor of Arts Honours in Drama

Rationale: Due to a recent retirement (December 2021), an upcoming retirement (June 2024), and re-assessing where faculty resources are best served, the department needs to delete the B.A. Honours (Theatre History) program level. The department can no longer offer 4 of the required 7 theatre history courses. Existing departmental resources will be used to maintain the other programs in Drama: Bachelor of Arts Double Honours, Four-year, and Three-year, Bachelor of Fine Arts (Acting and Design) and the Certificate in *wicéhtowin* Theatre. The only classes that are directly affected by the deletion of this program are DRAM 303, 304, 401, and 402.

A search of Degree Works and uView shows no active students in the BA Honours in Drama, and uView shows that one student graduated in 2020, but no others in the last 5 years.

Course deletion(s):

DRAM 303.3 Advanced Studies in Theatre History I 600 BCE to 1850 CE

DRAM 304.3 Advanced Studies in Theatre History II 1850 to Present

DRAM 401.3 Dramatic Theory and Criticism

DRAM 402.3 Studies in Canadian Theatre

Rationale: Due to a recent retirement (December 2021), an upcoming retirement (June 2024), and reassessing where are faculty resources are best served, we can no longer offer the 300- and 400-level theatre history courses.

Intermediate Studio Art

Minor program revisions:

Certificate in Intermediate Studio Art

Add ART 250.3 to the list of courses that can be counted in the program.

Intermediate Studio Art

Requirements (21 credit units)

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

- [ARTH 120.3](#) Art and Visual Culture I
- [ARTH 121.3](#) Art and Visual Culture II
- [ARTH 253.3](#) Indigenous Art History I
- [ARTH 255.3](#) Aboriginal Art History II

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

No more than 6 credit units of 100-level courses may be counted in this requirement.

- [ART 111.6](#) Painting I Foundation
- [ART 136.3](#) Digital and Integrated Practice I Foundation
- [ART 151.3](#) Introductory Printmaking I
- [ART 152.3](#) Introductory Printmaking II
- [ART 161.3](#) Foundation in Photography I
- [ART 216.6](#) Photography II
- [ART 220.3](#) Drawing and Related Work II A
- [ART 221.3](#) Drawing and Related Work II B
- [ART 222.3](#) Painting and Related Work II A
- [ART 223.3](#) Painting and Related Work II B
- [ART 230.3](#) Video Art and Sound I
- [ART 231.3](#) Animation and Digital Space I
- [ART 235.3](#) Digital Imagery
- [ART 241.3](#) Sculpture and Related Work II A
- [ART 242.3](#) Sculpture and Related Work II B
- [ART 250.3](#) **Topics in Specialized Media**
- [ART 251.3](#) Intermediate Printmaking

Rationale: This recently-approved course was accidentally omitted when the certificate was proposed.

Political Studies

New course(s):

POLS 463.3 Politics and the International Criminal Court

3 Seminar hours

This course provides an introduction to the International Criminal Court (ICC), a treaty based international organization that prosecutes individuals suspected of committing "the gravest crimes of concern to the international community", and explores the international politics and domestic considerations that affect and are affected by the existence and operations of the ICC in the wake of mass human rights violations.

Prerequisite(s): 54 credit units at the university level, including 18 credit units in POLS

Note: Students who took this topic as POLS 461.3 may not take POLS 463.3 for credit.

Instructor(s): Kirsten Fisher

Rationale: This course improves the department's offerings by adding this as a named course in the POLS calendar. The material of the proposed course has already been taught as a "Topics in Global Politics" course (POLS 461) over the past few years. POLS 461 is "designed as a selected topics seminar in international relations", and therefore, creating POLS 463.3 would allow the department to continue to offer this course in the politics of the International Criminal Court and leave the POLS 461 designation to be a revolving topic as it was designed. The global and domestic politics and justice of the International Criminal Court is the current and ongoing area of research for the instructor who will teach it, Kirsten Fisher (Assistant Professor in the department of Political Studies). Her expertise in this area enriches the student experience of learning about global politics through the examination of this particular institution.

Minor course revisions:

POLS 236.3 History of Political Theory

POLS 237.3 Modern Political Theory

Starting in the 2023-24 Catalogue year, add the ELWR attribute to POLS 236.3 and POLS 237.3, and add these courses to the list of English Language Writing Requirement courses for Arts and Science programs.

POLS 245.3 Topics in the Politics of Developing Countries

POLS 323.3 Aboriginal Policies and Programs

POLS 328.3 Public Policy Analysis

POLS 422.3 Aboriginal Development Strategies

Starting in the 2023-24 Catalogue year, remove the ELWR attribute from POLS 245.3, POLS 323.3, POLS 328.3, and POLS 422.3, and remove these from the list of English Language Writing Requirement courses for Arts and Science programs.



College of Engineering Submission to University Course Challenge

April 2022

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

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

General Engineering

Minor course revisions

Prerequisite change GE 103.1

Change the prerequisites for GE 103.1 Introduction to Engineering II from:

Prerequisite(s) or Corequisite(s): GE 102.2, to:

Prerequisite(s): GE 102.2.

Prerequisite change GE 133.2

Change the prerequisites for GE 133.2 Engineering Communications II from:

Prerequisite(s) or Corequisite(s): GE 103.1 and GE 132.1, to:

Prerequisite(s): GE 132.1.

Prerequisite change GE 143.2

Change the prerequisites for GE 143 Design II from:

Prerequisite(s) or Corequisite(s): GE 103.1 and GE 133.2 and GE 142.2, to:

Prerequisite(s): GE 142.2 and Prerequisite(s) or Corequisite(s): GE 103.1 and GE 133.2.

Prerequisite change GE 153.2

Change the prerequisites for GE 153.2 Electrical Circuits from:

Prerequisite(s) or Corequisite(s): GE 152.1 and MATH 134.3 and PHYS 156.3, to:

Prerequisite(s): GE 152.1 and Prerequisite(s) or Corequisite(s): MATH 134.3 and PHYS 156.3.

Prerequisite change GE 163.2

Change the prerequisites for GE 163.2 Process Engineering from:

Prerequisite(s) or Corequisite(s): GE 152.1 and MATH 134.3 and CHEM 146.3, to:

Prerequisite(s) or Corequisites: MATH 134.3 and CHEM 146.3.

Rationale: New pre- and co-requisites will better represent the relationships between the courses, and progression of materials covered.



For Information:

Civil Engineering

Minor course revisions

Prerequisites Change for CE 463.3

Current prerequisites for CE 463 Advanced Structural Analysis:

Prerequisite: CE 317

Pre or Corequisite: CE 418 or CE 470

Motion: To change the CE 463 Advanced Structural Analysis prerequisites to:

Prerequisite: CE 317 and CE 318; and one of CE 418 or CE 470

Rationale: Since CE 418 and CE 470 are Term 1 courses and CE 463 is always a Term 2 course, the corequisite statement appears to be an error. CE 418 or CE 470 should be taken before CE 463 and are Term 1 courses, which cannot be corequisites for the Term 2 CE 463. CE 318 includes an introductory form of finite element method and finite difference method for solving engineering problems. CE 463 uses more advanced finite element techniques.

Calendar Description for CE 470.3

Current Calendar Description: An introduction to the structural design of members and connections for steel structures in accordance with the National Building Code of Canada and the Canadian steel design Standard CSA-S16-01. Design principles are based on Limit States Design. Types of members and components include tension members, beams, columns, and beam-columns, as well as bolted and welded connections. Emphasis is placed on basic design and fabrication procedures. Design forces for framed structures are determined using second-order elastic analysis with notional lateral loads.

Motion: To change the calendar description of CE 470 to the following:

Proposed Calendar Description: An introduction to the structural design of members and connections for steel structures in accordance with the National Building Code of Canada and the applicable CSA-S16 design standards. Design principles are based on Limit States Design. Types of members and components include tension members, beams, columns, and beam-columns, as well as bolted and welded connections. Emphasis is placed on basic design and fabrication procedures. Design forces for framed structures are determined using second-order elastic analysis with notional lateral loads.

Prerequisite change GE 431.3

Remove the department permission requirement for GE 431.3 Engineering Entrepreneurship Capstone.

Prerequisite change GE 450.3

Remove the department permission requirement for GE 450.3 Technology Innovation Management.

Prerequisite change GE 451.1

Remove the department permission requirement for GE 451.1 Intellectual Property Fundamentals.

Prerequisite change GE 490.1



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Remove the department permission requirement for GE 490.1 Guest Seminar Series.

Rationale: The current permission requirements increase the workload of the Engineering Student Centre and are a barrier for students to register in the courses.

GE 431.3 and GE 450.3 are on the Complimentary Studies list (in those programs that have this list of electives), easier access (i.e. without the permission of the School of Professional Development) ensures that students secure spots.

College of Graduate and Postdoctoral Studies, University Course Challenge – April 2022

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

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

Community Health and Epidemiology

New course:

CHEP 820.3 An Introduction to Critical Realism its Methodology and Practice

The primary objectives of the course are to introduce the realist philosophical paradigm and discuss the main consequences of the realist thinking for doing research in social and related sciences. Additionally, the course aims to help students apply the realist philosophical paradigm to realist synthesis and evaluation practice.

Prerequisite(s): None

Instructor(s): Dr. Valery Chirkov and Dr. Gary Groot

Rationale: Our introductory course will provide the opportunity for upper year graduate students, who are interested in learning or conducting realist research, to acquire fundamentals of this methodology. As a relatively new research approach, realism is gaining an increasing popularity and recognition among students and researchers, especially in health sciences, social sciences, and education, due to its orientation and commitment to mechanistic thinking and causal explanation. This approach emphasizes identifying unobservable structures of a phenomenon. Achieving this philosophical viewpoint is important for those researchers who intend to evaluate complex systems and programs, such as a healthcare system, in which many mechanisms are hidden within the system, and so the functional interventions are suited in exploring the "how, why, in which context, and for whom" questions, that are the focus of realist studies. By introducing this course, we hope that upper year graduate students, who are usually in the process of writing their theses, be able to differentiate realist research from similar approaches, such as positivism, and to recognize and benefit from the advantages of realist approach in their research projects.

Education

Minor Program Revisions:

Master of Education (M.Ed.) School and Counseling Psychology - Thesis-based

There are three minor changes being requested: move EPSE 821.3 to the required course list and 817.3 to the potential elective courses list; remove EPSE 991.0 as a required course; and remove the two-year full-time residency requirement from the program requirements.

Degree Requirements

Students must maintain continuous registration in the 994 course.

- GPS 960.0
- GPS 961.0 **or** [GPS 962.0](#)

▼ A minimum of 33 credit units, including the following:

Deleted: <#>GPS 962.0 ¶

- two 3-credit unit courses at the 800-level in Research Methodology, chosen in consultation with the Educational Psychology and Special Education Department Graduate Chair. Acceptable courses could include: ERES 840.3, ERES 841.3, ERES 845.3, ERES 810.3, ECUR 844.3, ECUR 809.3 and/or other courses as approved by the department

Students must also complete the following courses:

- EPSE 821.3

- SCP 810.3
- SCP 811.3
- SCP 812.3
- SCP 813.3
- SCP 814.3
- SCP 816.3

- ▼

Deleted: SCP 817.3

- SCP 818.3

- SCP 819.3

- SCP 990.0

- ▼

Deleted: SCP 991.0

- SCP 994.0 Research

- ▼

Deleted: residency requirement of 2 years

Potential Elective Courses:

- ▼

Deleted: EPSE 821.3

- ▼

Deleted: SCP 815.3

- SCP 817.3

Rationale: SCP 991.0 is a course which involved students attending monthly/bimonthly presentations offered by field professionals in the term in which the course was offered. However, these types of presentations and discussions with field professionals have been part of students' practicum courses during their placements (i.e., SCP 818.3 and SCP 819.3). Therefore, this non-credit course is redundant and can be removed. EPSE 821.3 was included in the list of potential elective courses, however, graduate students should have graduate level coursework in biological bases of behaviour to ensure these future professionals are well grounded in this core competency of this field of practice. In addition, SCP 817.3 is a course focused on developing understandings and competencies to provide career services. The content of this class is not a core competency of licensing body requirements in Saskatchewan but may be of interest to students who wish to include career services as part of their

future practice. Lastly, the two-year full-time residency requirement is often a deterrent to potential applicants who cannot attend a university program full-time. Removing this 2-year residency requirement would allow applicants who want to take courses part-time to apply. This change would not only increase number of potential applicants to our program but would also increase the diversity of the pool of applicants.

Music Education

New course:

EMUS 805.3 Critical Perspectives in Music Education

This course provides a dvanced exploration regarding the philosophical and theoretical foundations of school-based music education. Through the study of general philosophical inquiry about music philosophy and aesthetics, students will develop the ability to articulate their thoughts on the nature and value of school-based music education and the critical issues that influence and affect this profession.

Prerequisite(s): None

Instructor(s): Dr. Jennifer Lang

Rationale: MUS 898.3 Special Topics course entitled Critical Perspectives in Music Education was approved by faculty last Summer and offered for the first time in the Fall of 2021. This course was created to help facilitate the smooth offerings of our new M. Mus. Ed. (Course-based) and M. Mus. Ed. (Thesis-based) degrees which began operations this Fall. The course created (MUS 898 Critical Perspectives in Music Education) was successful in providing a brand-new option for students as no one would have taken that course previously at the undergraduate level.

Minor Program Revision:

Master of Music (M. Mus.) (Music Education) - Course-based


Degree Requirements

Students must maintain continuous registration, either in a credit course or tuition bearing maintenance of status.

- GPS 960.0
- GPS 961.0
- GPS 962.0
- MUS 990.0

A minimum of **30 credits units**, including the following:

- EMUS 991.3
- **9 credit units** in Music Education to be selected from:
 - EMUS 805.3
 - EMUS 838.3
 - EMUS 841.3

- EMUS 848.3
- EMUS 860.3
- EMUS 890.3
- MUS 828.3
- **18 credit units** of electives approved by the student's Advisory Committee. Examples of elective options might include:
 - MUS 822.3
 - 
 - MUS 833.3
 - MUS 838.3
 - MUS 845.3
 - MUS 851.3
 - MUS 853.3
 - MUS 854.3
 - MUS 855.3
 - MUS 863.3

Deleted: MUS 828.3

**Program Revision:
Master of Music (M.Mus.) (Music Education) - Thesis-based**

Degree Requirements

Students must maintain continuous registration in EMUS 994.

- GPS 960.0
- GPS 961.0
- GPS 962.0
- MUS 990.0
- EMUS 994.0

A minimum of **15 credits units**, including the following:

- **9 credit units** in Music Education to be selected from:
 - EMUS 805.3
 - EMUS 838.3

- EMUS 841.3
- EMUS 848.3
- EMUS 860.3
- EMUS 890.3
- MUS 828.3
- **6 credit units** of electives approved by the student's Advisory Committee. Examples of elective options might include:
 - MUS 822.3
 - MUS 833.3
 - MUS 838.3
 - MUS 845.3
 - MUS 851.3
 - MUS 853.3
 - MUS 854.3
 - MUS 855.3
 - MUS 863.3

Deleted: <#>MUS 828.3 ¶

Rationale: This is the first year of offering the MMus in Music Education degrees (both thesis and course based) and with an incoming cohort of students who have various educational backgrounds and experiences we are needing to propose some minor revisions to the degrees to accommodate current and future students. Currently we have 4 students enrolled and 3 students have completed their undergraduate degrees here at the U of S. As such, many of them have taken the dual delivery courses we offer at the undergraduate level and therefore, are unable to take them at the graduate level and count them towards the degree. In one category for both MMus in Music Education degrees we require students to take "9 C.U. in Music Education to be selected from" and we offer 5 courses from which to choose. This poses a challenge as many of our students have already taken these courses at the undergraduate level and we are needing to request from CGPS that courses that would be considered in the "elective" category of 18 CU (see below for program requirements) instead be considered for the category of "9 C.U. in Music Education to be selected from:" We are proposing that the developed course "Critical Perspectives in Music Education" be moved from the 18 CU elective category to the "9 C.U. in Music Education to be selected from" to serve as a solution in expanding the list of course options for students to take so that we are not constantly having to ask CGPS for course substitutions from the 18 CU category to the "9 C.U. in Music Education to be selected from".

Nursing

New course:

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

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

Prerequisite(s): None

Instructor(s): Dr. Helen Vandenberg

Rationale: The study of health history is fundamental to the knowledge development of healthcare providers in Canada. To better understand and approach current health practices and problems, health providers benefit from strong foundational knowledge of the past. Introducing students to historical scholarship allows students to explore how significant events and ideas shape the current state of Canadian healthcare practices. Historical analysis of Canadian health history encourages students to explore issues that cannot be easily studied or explored using other research methodologies.

Physics

New course:

PHYS 828 Computational Physics Methods

This course introduces students to practical physics problems that cannot be solved analytically and the numerical approaches and computational techniques used to estimate their solutions. Problems will typically be taken from mechanics, thermodynamics, electricity and magnetism, and solid state physics with examples such as n-body orbits, fields in complicated boundaries, electronic structures of atoms, thermal profile of a nuclear waste rod, and non-linear chaotic systems. The computational techniques introduced to solve these problems include Runge-Kutta methods, spectral analysis, relaxation and finite element methods, and Monte Carlo simulations. A brief introduction to the issues of using high performance computing and parallel computing techniques is also included.

Prerequisite(s): PHYS 428.3

Instructor(s): Dr. Adam Bourassa or Dr. Doug Degenstein or Dr. Robert Green

Rationale: Research in modern physics involves more and more the use of numerical tools and/or the development of numerical codes. With this course graduate student will acquire the necessary knowledge to tackle the challenges of their research project.

Psychology

Course modification:

PSY 860.3 Professional Skills

Title change:

Old course title: Professional Skills

New course title: Learning from Indigenous Cultural Perspectives on Health and Healing

Rationale: The title change will align the course title more closely with the content covered.

Sociology

New course:

SOC 808 Colonialism Gender and Violence

This course draws on decolonial Indigenous feminist scholarship and post-colonial development thought to theorize about colonial gendered violence in contexts of ongoing settler colonialism. The course centers writings of Indigenous and racialized women and decolonial scholars.

Restriction(s): Registration as a graduate student in Sociology or by permission of the instructor.

Instructor(s): Dr. Julie Kaye

Rationale: This course builds on three core focus areas of the Department of Sociology and key areas of study identified by the Canadian Sociological Association in their research and teaching clusters: Settler Colonialism, Gender, and Criminology and Sociology of Violence. The course meets several demands in the Department of Sociology as demonstrated by related offerings of reading courses to meet the gap in this area of our senior undergraduate/graduate programming. Some of the Sociological portions of this course were previously offered as a Reading Course in Indigenous Studies (Indigenous Studies 898.3 Gendered Resistance: Challenging Colonial Representations and Criminalization; 2016-2017 T2; Drs. Sarah Nickel, Julie Kaye, and Emily Snyder); Reading Course in Sociology was developed and taught by Julie Kaye in 2019-2020 academic year: SOC 898.3 Colonial Gendered Violence. Several students attending our program would benefit from training in a critical analysis of settler colonialism in Canada.

Veterinary Pathology

Course deletion

VTPA 991.0 Seminar


Rationale: VTPA 991.0 is already moribund. The teaching unit is now asking for it to be formally deleted.

Minor program revision:

Advanced Veterinary Diagnostic Pathology - Graduate Certificate (G.Cert.)

Certificate Requirements

Students must complete the following requirements:

- GPS 960.0 Introduction to Ethics and Integrity
- GPS 962.0 Ethics and Integrity in Animal Research
- VTPA 854.9 Advanced Veterinary Diagnostic Pathology
- VTPA 990.0 Seminar
- 

Deleted: VTPA 991.0

Rationale: Removing the deleted course from the program requirements.

Items For Information

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

Anatomy, Physiology and Pharmacology

Course Modification(s):

ACB 801.6 Human Gross Anatomy

Course subject code change:

Old subject code: ACB

New subject code: APPY

ACB 806.3 Advanced Histology and Histotechnology

Course subject code change:

Old subject code: ACB

New subject code: APPY

ACB 821.3 Advanced Topics in Developmental Biology

Course subject code change:

Old subject code: ACB

New subject code: APPY

ACB 824.3 Current Topics in Cell Biology of Myelinating Glia

Course subject code change:

Old subject code: ACB

New subject code: APPY

ACB 830.3 Advanced Topics in Cell and Molecular Biology

Course subject code change:

Old subject code: ACB

New subject code: APPY

ACB 834.3 Advanced Functional Neuroanatomy

Course subject code change:

Old subject code: ACB

New subject code: APPY

College of Pharmacy and Nutrition – University Course Challenge, April 2022

The following curricular change was approved by the College of Pharmacy & Nutrition Pharmacy Program Committee and is being submitted to the April 2022 University Course Challenge for approval:

New Course

PHAR 227.3

New and Emerging Therapeutics

This course will review and discuss: drugs recently approved by the regulatory bodies; drugs that have recently been unsuccessful in late stage clinical trials; new therapeutics in various phase clinical trials; clinical trials of natural products. Students will critically assess available data with a focus on new drugs and drugs in the pipeline. The goal will be to encourage students to be forward looking, self-directed learners for new therapeutics and develop a better understanding of the drug development and approval process

Restriction(s): Completion of Year 1 of the PharmD. Program

Prerequisite or Corequisite: PHAR 290.0

Rationale: The PharmD offers a number of electives for students to take. This course will add to the number and breadth of the electives currently available to both 2nd year and 3rd year Pharmacy students.