Academic Programs Committee of Council

University Course Challenge

Scheduled posting: **March 2025**

Date of circulation: **March 17, 2025**

Date approval is effective if no challenge received: **March 31, 2025**

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 Arts and Science
College of Engineering
College of Graduate and Postdoctoral Studies
College of Kinesiology
College of Pharmacy and Nutrition
Edwards School of Business

The next scheduled posting will be **April 17, 2025** with a submission deadline of **April 14, 2025**. 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.

University Course Challenge – March 2025
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)

Applied Computing

Minor program revisions
Bachelor of Science Honours and Four-year in Applied Computing
For the concentration in Bioinformatics only, add MATH 125 as an acceptable course as shown below.

Bachelor of Science Honours (B.Sc. Honours) - Applied Computing - Bioinformatics
Bachelor of Science (B.Sc. Four-year) - Applied Computing - Bioinformatics

C3 Cognate Requirement (9 credit units)

Junior course requirements

- **CHEM 112.3** General Chemistry I Structure Bonding and Properties of Materials
- **PHIL 232.3** Ethics and Professional Responsibility in Computer Science

Additional cognate requirements

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

Students choosing MATH 125 may complete this program but will not be able to select the Simulation option in the C4 Major Requirement below.

- **MATH 110.3** Calculus I
- **MATH 125.3 Mathematics for the Life Sciences**
- **MATH 133.4** Engineering Mathematics I (only open to student in the College of Engineering)
- **MATH 176.3** Advanced Calculus I

Rationale: The Applied Computing Degree in Bioinformatics is intended to be attractive and accessible to students with an interest in the life sciences. Such students might be undecided about which program they want to pursue (a life science degree such as B.Sc. in Biology or Biochemistry, or the AC degree in Bioinformatics), or might even want to pursue two different degrees (either simultaneously or in sequence). Under the present requirements, students who take MATH 125 first and then switch into the Applied Computing - Bioinformatics program are forced to renounce their MATH 125 credit and take MATH 110 instead. As MATH 125 is the intended mathematics course for most life science students, accepting it here as an option will reduce wasted credits for students.

Biochemistry, Microbiology and Immunology

New course(s)
BMIS 420.3 Antimicrobial Resistance of One Health Pathogens
1/2 (3S) Themes related to antimicrobial resistance (AMR) in the USask signature area of One Health will be introduced through formal introductory lectures, followed by presentation and discussion and critique

of primary research articles. Students are required to study all the manuscripts ahead of time and are encouraged to actively participate in the in-class discussions and activities. Graduate students are expected to take a more engaged, leadership role in class discussions. An emphasis will be placed on the critical analysis of the research articles discussed. Methods generally applicable and of interest to the field will also be discussed. Topics to be addressed include but are not limited to defining AMR, AMR in a historical context, canonical mechanisms of resistance in One Health pathogens, surveillance and transmission of AMR in the environment, emerging and novel mechanisms of resistance, and treatment strategies for extensively drug-resistant pathogens.
Prerequisite(s): BMIS 325.3 or permission of the course coordinator.
Note: Students with credit for BMIS 498.3 Advances in Antimicrobial Resistance of One Health Pathogens cannot take BMIS 420 for credit. Students who have taken BMIS 420 as an undergraduate student are ineligible to take BMIS 820 as a graduate student.
Instructor(s): Jessica Sheldon, Oleg Dmitriev, Jenny Wachter
Rationale: This course is proposed to be created for multiple reasons including that there are few bacteriology courses available to senior undergraduate and graduate students, so addition of this course improves offerings within the field and responds to student demands for more courses to be available at the 400-level. Furthermore, bacteriology is the area of expertise for 2 out of 3 instructors, and all have research programs that align well with the course offerings, and thus content will remain topical and relevant to modern advances in antimicrobial resistance.

Cellular, Physiological, and Pharmacological Sciences

Minor course revisions
CPPS 407.3 Advanced in Anatomy and Histology
Prerequisite change:
Current prerequisite(s): CPPS 310.3.
New prerequisite(s): CPPS 221.3 or CPPS 310.3 or permission from the course coordinator.
Rationale: CPPS 221.3 covers the necessary content to serve as a prerequisite for CPPS 407 and adding it will increase flexibility for students.

Computer Science

Minor course revisions
CMPT 141.3 Introduction to Computer Science
Prerequisite change:
Current prerequisite(s): One of (Computer Science 30, CMPT 140.3, BINF 151.3) and one of (Mathematics B30, Foundations of Mathematics 30, Pre-Calculus 30); or MATH 110.3, MATH 123.3, MATH 133.4, MATH 163.3, or MATH 176.3 (can be taken concurrently).
New prerequisite(s): One of (Computer Science 30, CMPT 140.3, BINF 151.3) and one of (Mathematics B30, Foundations of Mathematics 30, Pre-Calculus 30); or MATH 110.3, MATH 123.3, MATH 125.3, MATH 133.4, MATH 163.3, or MATH 176.3 (can be taken concurrently).
Rationale: CMPT 141 is the introductory gateway course to multiple programs offered by Computer Science, including the Applied Computing degree. Some of the Applied Computing degrees (particularly the concentration in Bioinformatics) are meant to attract students with an interest with the Life Sciences, who typically take MATH 125. Adding MATH 125 to the list of accepted mathematics pre-/co-requisites will make the course more explicitly accessible to those students.

English

New course(s)
ENG 412.3 Topics in Indigenous Literatures
1/2 (3S) Focus and texts vary from year to year according to the interests of instructors. See the department website or the current course handbook for the 400-level course descriptions.
Prerequisites: Normally open to students in an Honours Program or in the upper years of a B.A. Four-year in English.
Restriction: Permission of the department required.
Note: Students may take this course more than once for credit, provided the topic covered in each offering differs substantially. Students must consult the Department to ensure that the topics covered are different. Category 4 course.
Instructor(s): Jenna Hunnef, Kristina Bidwell
Rationale: The Department of English currently offers no 400-level seminar dedicated to Indigenous Literature even though it is an area of particular strength and emphasis in the department. This course will fill that gap.

Health Studies

Minor program revisions
Bachelor of Arts and Science Honours and Four-year in Health Studies
Remove BMSC 207 as a required course in the Individual, Society and Health – Drugs and Health cluster to remove the credit unit ranges from the J4-B1 and J5 sections.

Bachelor of Arts and Science Honours (B.A.&Sc. Honours) - Health Studies - Individual, Society and Health
J4 Major Requirement (63 ~~66~~ credit units)

- **HLST 110.3** Introduction to Health Studies
- **HLST 210.3** Introduction to Quantitative and Qualitative Research Methods in Health Studies
- **HLST 310.3** Theories and Applications in Health Studies
- **HLST 410.6** Honours Thesis in Health Studies

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

Option B: Individual, Society, and Health (48 - 51 credit units)

Individual, Society and Health ("IS&H"): Focusing on health at the level of the individual and society, this stream emphasizes those processes and factors that affect an individual's health. Students focusing on this stream will develop an appreciation for how an individual human's health involves an interaction between the individual's physiological functioning and social factors.

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

B1. Choose one of the following Science clusters (12 ~~15~~ credit units):

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

*Students with credit for BMSC 207 or BMSC 208 (formerly **PHSI 208.6**) may not subsequently receive credit for BIOL 224. Students may receive credit for all of BIOL 224 and BMSC 207 and BMSC 208 only if BIOL 224 is completed first, or if BIOL 224 and BMSC 207 are taken concurrently. BIOL 224 is a prerequisite for a number of senior Biology courses including BIOL 317; BMSC 207 and BMSC 208 are prerequisites for most 300-level CPPS and NEUR courses.

i. Drugs and Health:

- One of **TOX 300.3** General Principles of Toxicology, or **FABS 362.3** Functional Foods and Nutraceuticals
- ~~**BMSC 207.3** Human Body Systems I*~~
- **BMSC 208.3** Human Body Systems II* (BMSC 208.3 requires BMSC 207.3 as a prerequisite. This course may be used to fulfill B4 or B5 below.)
- **CPPS 304.3** Introduction to Pharmacology
- **CPPS 306.3** Systems Pharmacology I Cardiorespiratory Renal Gastrointestinal and Neuropharmacology or **CPPS 307.3** Systems Pharmacology II Chemotherapy Immune and Endocrine Pharmacology

ii. Disease and Health:

- 6 credit units of **BMIS 308.3** An Introduction to Microbial Pathogens, **BMIS 321.3** Introduction to Immunology, **BMIS 423.3** Immunopathogenesis, or **BIOL 436.3** Animal Parasitology
- **BMSC 200.3** Biomolecules
- **BMSC 210.3** Microbiology

iii. Food and Health:

- **FABS 110.3** The Science of Food
- **FABS 212.3** Agrifood and Resources Microbiology or **BMSC 210.3** Microbiology
- **NUTR 120.3** Basic Nutrition
- One of **FABS 323.3** Food Additives and Toxicants, **FABS 325.3** Food Microbiology and Safety, **FABS 362.3** Functional Foods and Nutraceuticals, or **FABS 371.3** Food Biotechnology

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J5 Electives (~~18~~ 21 credit units)

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

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

Bachelor of Arts and Science Four-year (B.A.&Sc. Four-year) - Health Studies- Individual, Society and Health

J4 Major Requirement (57~~-60~~ credit units)

- **HLST 110.3** Introduction to Health Studies

- **HLST 210.3** Introduction to Quantitative and Qualitative Research Methods in Health Studies
- **HLST 310.3** Theories and Applications in Health Studies

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

Option B: Individual, Society, and Health (48 - 51 credit units)

Individual, Society and Health ("IS&H"): Focusing on health at the level of the individual and society, this stream emphasizes those processes and factors that affect an individual's health. Students focusing on this stream will develop an appreciation for how an individual human's health involves an interaction between the individual's physiological functioning and social factors.

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

B1. Choose one of the following Science clusters (12~~ - 15~~ credit units):

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

*Students with credit for BMSC 207 or BMSC 208 (formerly PHSI 208.6) may not subsequently receive credit for BIOL 224. Students may receive credit for all of BIOL 224 and BMSC 207 and BMSC 208 only if BIOL 224 is completed first, or if BIOL 224 and BMSC 207 are taken concurrently. BIOL 224 is a prerequisite for a number of senior Biology courses including BIOL 317; BMSC 207 and BMSC 208 are prerequisites for most 300-level CPPS and NEUR courses.

i. Drugs and Health:

- One of **TOX 300.3** General Principles of Toxicology, or **FABS 362.3** Functional Foods and Nutraceuticals
- ~~**BMSC 207.3** Human Body Systems I*~~
- **BMSC 208.3** Human Body Systems II* (BMSC 208.3 requires BMSC 207.3 as a prerequisite. This course may be used to fulfill B4 or B5 below.)
- **CPPS 304.3** Introduction to Pharmacology
- **CPPS 306.3** Systems Pharmacology I Cardiorespiratory Renal Gastrointestinal and Neuropharmacology or **CPPS 307.3** Systems Pharmacology II Chemotherapy Immune and Endocrine Pharmacology

ii. Disease and Health:

- 6 credit units of **BMIS 308.3** An Introduction to Microbial Pathogens, **BMIS 321.3** Introduction to Immunology, **BMIS 423.3** Immunopathogenesis, or **BIOL 436.3** Animal Parasitology
- **BMSC 200.3** Biomolecules
- **BMSC 210.3** Microbiology

iii. Food and Health:

- **FABS 110.3** The Science of Food
- **FABS 212.3** Agrifood and Resources Microbiology or **BMSC 210.3** Microbiology
- **NUTR 120.3** Basic Nutrition
- One of **FABS 323.3** Food Additives and Toxicants, **FABS 325.3** Food Microbiology and Safety, **FABS 362.3** Functional Foods and Nutraceuticals, or **FABS 371.3** Food Biotechnology

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J5 Electives (~~24~~ 27 credit units)

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

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

Rationale: Students who select the Drugs and Health cluster will still need to take BMSC 207 (as the prerequisite for BMSC 208), but it can be counted in the B4 or B5 section instead. Removing the credit unit ranges from J4 (B1) and J5 makes the program easier to understand and allows Degree Works to better show students the courses they need.

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

Course split(s):
INDG 370.6 Images of Indigenous North America
into
INDG 275.3 Indigenous Peoples and Popular Imagination
1/2 (3L) This course introduces critical viewing practices relating to media depictions of Indigenous peoples, using popular culture as a point of entry. Students will analyze a range of media texts within their historic contexts, from contact to the present day, and be asked to consider the ways these texts construct and/or reflect particular representations of Indigenous cultures, colonial narratives, and contemporary discourses. They will also examine Indigenous creators' critical responses to, and uses of, these forms of media, both in theoretical writing and creative practice. The course will provide students with a background in the origins and development of persistent colonial narratives, the means to recognize these narratives, and the analytical skills to interrogate them.
Prerequisite(s): 3 credit units 100-level INDG and 3 credit units from ANTH, ARCH, ECON, ENG, GEOG, INDG, LING, NS, POLS, PSY, SOC, or WGST.
Note: Students with credit for INDG 370.6 cannot take INDG 275 for credit. The skills learned in this course will prepare students to examine more complex media topics such as those presented in INDG 375.3: Media Constructions and Discourses of Indigenous-Settler Histories. Themes and topics from this course have been included in INDG 370.6: Images of Indigenous North America in past years.
Instructor(s): Jade McDougall
and
INDG 375.3 Media Constructions and Discourses of Indigenous-Settler Histories
1/2 (3L) This course is designed to present an in-depth examination of key moments in the history of Indigenous-settler relations and their depictions in news media, online discourses, academic texts, documentary films, fine arts, and popular culture. Students will also examine Indigenous creators' critical responses to, and uses of, these forms of media, both in theoretical writing and creative practice. The

course will provide students with an in-depth understanding of persistent colonial narratives, the means to recognize these narratives, and the analytical skills to interrogate them.
Prerequisite(s): INDG 275.3 or 12 credit units INDG courses.
Note: Students with credit for INDG 370.6 cannot take INDG 375 for credit. This course is intended to build upon the critical viewing skills learned in INDG 275.3: Indigenous Peoples and Popular Imagination. Themes from this course have been included in INDG 370.6: Images of Indigenous North America in past years.
Instructor(s): Jade McDougall
Rationale: INDG 370 has been a six-credit course in previous years, and in keeping with the University's transition toward three-credit courses, the Department of Indigenous Studies proposes two three-credit courses, at two distinct levels, to replace it.

Item for Information - Correction

PHYS 455.3 Nuclear Techniques
Prerequisite: Minimum of 81 credit units university coursework including 45 credit units at the 200- or 300-level; and EP 253.1 or equivalent.
Rationale: PHYS 455.3 was approved in the December 2024 University Course Challenge but the prerequisite listed there could not be checked by the Registration system. This updated version will ensure that students able to register will be prepared for the course.

College of Engineering - University Course Challenge Submission, March 2025

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)

Mechanical Engineering:

MOTION: To change the pre- and co-requisites for ME 329.3 (Collaborative Design and Manufacturing), beginning in 2025-26. The change will be from:

Prerequisites: ME 229.3 and ME 330.3 (taken)
To:
Prerequisites: ME 229.3 and ME 330.3 (taken)
Prerequisite or Corequisite: ME 314.3 (taken)

RATIONALE: As ME 314.3 (Machine Design I) is not currently a prerequisite for other courses in the ME program, some students are delaying taking this course until the end of their program, sometimes after they have taken the third-year design course (ME 329.3) and at the same time as they are completing the capstone design course (ME 495.3 or GE 495.3). For example, this year five of the 83 students in ME 329.3 have not yet taken ME 314.3, and five of the 74 students taking ME 495.3 or GE 495.3 are taking ME 314.3 at the same time.

Given the content of ME 314.3, it is in the student's (and their design group's) best interest to take this course while taking ME 329.3, which involves the design of mechanisms. The material in ME 314.3 is also very relevant to many of the design projects that students complete in ME 495.3 or GE 495.3. The design content of ME 314.3 has been significantly increased this year as part of efforts to ensure that the core program meets the CEAB Engineering Design AU requirements without the need for students to complete a minimum number of design electives. Experience gained while completing the ME 314.3 design project will assist them in ME 329.3 and ME/GE 495.3.

Therefore, the department wishes to add ME 314.3 as a prerequisite or corequisite for ME 329.3, ensuring that students take ME 314.3 at the same time as or before taking ME 329.3. As ME 329.3 is a prerequisite for ME 495.3, this also ensures that they take ME 314.3 before taking their capstone design course. While most students will take ME 314.3 at the same time as ME 329.3 (e.g., 76/83 students are doing so this year), for students who use ME 314.3 as a prerequisite, it was felt that a "taken" prerequisite was appropriate and is consistent with ME 330.3 being a "taken" prerequisite for ME 329.3.

University Course Challenge – March 2025
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 Specialist (chelsea.smith@usask.ca or gradprograms.academicaffairs@usask.ca)

PSYCHOLOGY
Degree requirement changes:

Transfer from Master's to Ph.D. - Culture, Health, and Human Development Stream

Students must maintain continuous registration in the 996 course.

- **GPS 960.0** Introduction to Ethics and Integrity
- **GPS 961.0** Ethics and Integrity in Human Research, if research involves human subjects
- **GPS 962.0** Ethics and Integrity in Animal Research, if research involves animal subjects
- **PSY 900.0** Directed Research in Psychology
- **PSY 994.0** Research – Thesis/**PSY 996.0** Research – Dissertation
- doctoral candidacy assessment
- dissertation defense

Students must complete minimum of 18 credit units of course work, including the following:

- **PSY 803.3** Culture Health and Human Development
- ~~electives (12 credit units)~~ 9 credit units of electives as approved by the department
- ~~Students must complete one of the following:~~ 3 credit units from the following:
    - **EPSE 843.3** Theory of Educational and Psychological Measurement
    - ~~ERES 840.3~~
    - ~~ERES 841.3~~
    - **PSY 805.3** Statistics I Univariate General Linear Models
    - **PSY 810.3** Methods of Applied Social Research
    - or another qualitative methods course, as approved by the department

~~Students must complete one of the following:~~

- 3 credit units from the following:
    - **ANTH 802.3** Community-Based Research Ethnography and Engagement
    - **ERES 845.3** Qualitative Research Methods

- **NURS 893.3** Qualitative Research Methods
- **PSY 809.3** Qualitative Research
- or another quantitative research methods course, as approved by the department

JOHNSON-SHOYAMA SCHOOL OF PUBLIC POLICY

Course Deletions

JSGS 883.1 Essentials for Public Policy and Administration
JSGS 884.2 Professional Planning

Rationale: The Master of Public Administration program was updated for the 2020/21 USask Catalogue. The revised program did not include JSGS 883.1 or JSGS 884.2 and both were removed from the degree requirements. All students in the 'old' Master of Public Administration program, which required JSGS 883 and 884 have graduated, and the courses are no longer required.

For information

EDUCATION
Course Change

ECUR 844.3: Narrative Inquiry

Current label: ECUR 844.3

Proposed label: ERES 844.3

Current title: Narrative Inquiry

Proposed title: Narrative Inquiry Methodology

Proposed note: Students with credit for ECUR 844 will not receive credit for this course

ENGLISH
Course Number change
ENG 802 Research Methods was approved in November 2024, through University Course Challenge. After this approval, it was realized that the ENG 802 number was not available. The course has been set up as ENG 890 Research Methods.

SCHOOL OF PUBLIC HEALTH

PUBH 842.3: Current Biostatistical Methods and Computer Applications
Current Prerequisite: PUBH 805 or equivalent.
Proposed Prerequisite: PUBH 811 or equivalent
Rationale for Modifying this Course: PUBH 805 (current prerequisite) is an introductory graduate course in biostatistics and PUBH 842 is an advanced graduate biostatistics course. When PUBH 805 was set to be PUBH 842's prerequisite, SPH offered no other graduate biostatistics course. It soon was determined that PUBH 805 was not sufficient background as a steppingstone for PUBH

842. Students with only PUBH 805 as a background found PUBH 842 extremely challenging. SPH decided to create an intermediate course (PUBH 811) between PUBH 805 and PUBH 842. PUBH 811 and PUBH 842 are courses that can be taken as part of a MSc and PhD in Biostatistics. These two programs are overseen by the Collaborative Biostatistics Program (CBP) Advisory Committee. This advisory committee reviewed the proposed prerequisite change and recommended the change to the faculty in the CBP. The faculty in the CBP voted in favour of adopting the recommendation and the recommendation was then brought to the SPH Academics Program Committee which also voted in favour of adopting the recommendation.

College of Kinesiology – March 2025 University Course Challenge

Item for Information

Administrative Placeholder Course Deletion

KIST 1000

Note: Students with credit for PLSC 314, PLSC 214, PSY 233, or STAT 245 may not take this course for credit.

Rationale: KIST 1000 was set up in 2009 to facilitate statistics course equivalent relationships during registration. With the current functionality in the student information system, this placeholder is no longer necessary.

University Course Challenge – March 2025

The following curricular changes were approved by the Pharmacy Program Advisory Committee and the Nutrition Program Advisory Committee and are being submitted to the March 2025 University Course Challenge for approval.

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

DOCTOR OF PHARMACY

NEW COURSES

Course Relabels: The College of Pharmacy and Nutrition has approved the relabeling of PHAR 170.3, 171.3, 272.3, 273.3, 374.3, 375.3 to the following 6 credit unit courses: PHAR 177.6, PHAR 277.6, and PHAR 377.6.

Rationale: Moving to year-long, 6-credit courses will allow for more assessment opportunities, both formative and summative. This will provide instructors with a more accurate demonstration of student competency and allow for additional remediation opportunities if needed.

PHAR 177.6
Pharmacy Skills Development 1
New Catalogue Description: Students will participate in contemporary pharmacy practice in a simulated practice environment where students will begin to develop their professional identity. Students will execute basic procedures in medication dispensing, extemporaneous compounding, and application of appropriate laws and standards of practice. Students will utilize drug information skills and the patient care process to interview and educate patients about their medications and medical conditions as well as identify, solve and discuss simple drug therapy problems.
Restriction(s): Admission to the Pharm.D. program in the College of Pharmacy & Nutrition.
Prerequisite(s): PHAR 190.0
NOTE: Students with credit for PHAR 170.3 and PHAR 171.3 cannot take this course for credit.

PHAR 277.6
Pharmacy Skills Development 2
New Catalogue Description: Students will participate in contemporary pharmacy practice in diverse practice settings within a simulated practice environment. Students will continue to develop their professional identity and build proficiency in medication dispensing, drug information skills, extemporaneous compounding, and application of appropriate laws and standards of practice. Students will use the patient care process to interview and educate increasingly complex patients about medications and medical conditions, as well as identify, solve, and discuss more complex and diverse drug therapy problems. Interprofessional experiences will enhance these learning opportunities.
Restriction(s): Completion of Year 1 of the Pharm.D. Program.
Prerequisite(s): PHAR 290.0
NOTE: Students with credit for PHAR 272.3 and PHAR 273.3 cannot take this course for credit.

PHAR 377.6
Pharmacy Skills Development 3

New Catalogue Description: Students will participate in contemporary pharmacy practice in diverse practice settings within a simulated practice environment. Students will continue to develop their professional identity and build proficiency in medication dispensing, drug information skills, and application of appropriate laws and standards of practice. Students will utilize the patient care process to interview and educate patients with increasingly complex needs, as well as identify, solve, and discuss more complex and diverse drug therapy problems. Interprofessional experiences will enhance these learning opportunities.
Restriction(s): Completion of Year 2 of the Pharm.D. Program.
Prerequisite(s): PHAR 390.0
NOTE: Students with credit for PHAR 374.3 and PHAR 375.3 cannot take this course for credit.

Doctor of Pharmacy (Pharm.D.) (170 credit units)

Year 1 (49 credit units)

Fall Term

- PHAR 110.3 Introduction to Pharmacy and the Health Care System
- PHAR 121.3 Foundational Sciences 1: Foundational Pathophysiology & Pharmacology
- PHAR 122.3 Foundational Sciences 2: Medicinal Chemistry and Physical Pharmacy
- PHAR 153.4 Self-Care 1: Non-prescription Pharmaceuticals and Supplies
- PHAR 162.3 Pharmacy Practice 1: The Patient Care Process
- ~~PHAR 170.3 Pharmacy Skills Development 1~~
- PHAR 190.0 Introduction to Year 1
- PHAR 191.1 IPE Activities

Winter Term

- PHAR 111.1 Foundations for Practice: Pharmacy Mathematics and Calculations
- PHAR 112.1 Pharmacy Law
- PHAR 123.3 Foundational Sciences 3: Foundational Pathophysiology and Pharmacology
- PHAR 124.3 Foundational Sciences 4: Introduction to Pharmaceutics
- PHAR 152.6 Pharmacotherapeutics 1
- PHAR 154.3 Self-Care 2: Non-prescription Pharmaceuticals and Supplies
- ~~PHAR 171.3 Pharmacy Skills Development 2~~
- PHAR 192.1 IPE Activities

Fall and Winter Terms

- PHAR 177.6 Pharmacy Skills Development 1
- PHAR 188.2 Experiential Learning 1
- PHAR 189.2 Service Learning
- PHAR 193.0 Capstone Year 1

Spring and Summer Terms

- PHAR 185.4 Experiential Learning Introductory Pharmacy Practice Experience Community

Year 2 (47 credit units)

Fall Term

- PHAR 224.3 Science of Pharmacotherapy 1: Pharmaceutics and Pharmaceutical Biotechnology
- PHAR 226.3 Foundational Sciences 5 Pharmacokinetics and Biopharmaceutics
- PHAR 253.6 Pharmacotherapeutics 2
- PHAR 262.1 Pharmacy Practice 2
- PHAR 271.3 Evidence Based Medicine
- ~~PHAR 272.3 Pharmacy Skills Development 3~~
- PHAR 290.0 Introduction to Year 2
- PHAR 291.1 IPE Activities

Winter Term

- 3 credit units of electives, as approved by the College of Pharmacy and Nutrition
- PHAR 212.1 Pharmacy Ethics
- PHAR 213.3 Management 1
- PHAR 225.3 Science of Pharmacotherapy 2: Clinical Applications
- PHAR 255.6 Pharmacotherapeutics 3
- PHAR 263.1 Pharmacy Practice 3
- ~~PHAR 273.3 Pharmacy Skills Development 4~~
- PHAR 292.1 IPE Activities

Fall and Winter Terms

- PHAR 277.6 Pharmacy Skills Development 2
- PHAR 288.2 Experiential Learning 2
- PHAR 293.0 Capstone Year 2

Spring and Summer Terms

- PHAR 285.4 Experiential Learning Introductory Pharmacy Practice Experience Hospital

Year 3 (42 credit units)

Fall Term

- PHAR 324.3 Science of Pharmacotherapy 3: Toxicology
- PHAR 350.3 Pharmacotherapy in Special Populations
- PHAR 358.6 Pharmacotherapeutics 4
- PHAR 367.1 Pharmacy Practice 5
- PHAR 370.3 Complex Cases
- ~~PHAR 374.3 Pharmacy Skills Development 5~~
- PHAR 390.0 Introduction to Year 3
- PHAR 391.1 IPE Activities

Winter Term

- 3 credit units of electives, as approved by the College of Pharmacy and Nutrition
- PHAR 315.3 Issues in Health Care and Pharmacy Practice
- PHAR 359.6 Pharmacotherapeutics 5

- PHAR 368.1 Pharmacy Practice 6
- ~~PHAR 375.3 Pharmacy Skills Development 6~~
- PHAR 392.1 IPE Activities
- PHAR 395.3 Disease State Management Review and Update

Fall and Winter Terms

- PHAR 377.6 Pharmacy Skills Development 3
- PHAR 388.2 Experiential Learning 3
- PHAR 393.0 Capstone Year 3

Year 4 (32 credit units)

- PHAR 481.8 Experiential Learning Advanced Pharmacy Practice Experience 1 Hospital
- PHAR 482.8 Experiential Learning Advanced Pharmacy Practice Experience 2 Community
- PHAR 483.8 Experiential Learning Advanced Pharmacy Practice Experience 3 Other Direct Patient Care
- PHAR 484.8 Experiential Learning Advanced Pharmacy Practice Experience 4 Elective Practice or PHAR 485.4 and PHAR 486.4
- PHAR 490.0 Introduction to Year 4
- PHAR 493.0 Capstone Year 4

DOCTOR OF PHARMACY (PHARM.D.) AND MASTER OF BUSINESS ADMINISTRATION (M.B.A.) COMBINED DEGREE PROGRAM

Degree Requirements (2003 credit units)

Students must complete the following course requirements:

Business Administration Courses:

- MBA 803.3 Business Strategy and Societal Impact
- MBA 813.3 Strategic Human Resources Management
- MBA 823.3 Principles of Indigenous Business and Engagement in Canada
- MBA 828.3 Strategy and Risk Management
- MBA 830.3 Operations Management
- MBA 846.3 Introduction to Entrepreneurship and Venture Development
- MBA 850.3 Digital Transformation
- MBA 860.3 Financial Analysis
- MBA 865.3 Accounting for Planning and Decision Making
- MBA 878.3 International Business and Global Marketing
- MBA 889.3 Innovation Management
- MBA 992.3 Edwards MBA Capstone

Choose one of the following:

- MBA 819.3 Marketing for Organizational Decision Making
- MBA 870.3 Corporate Finance

Pharmacy Courses:

- PHAR 110.3 Introduction to Pharmacy and the Health Care System
- PHAR 111.1 Foundations for Practice: Pharmacy Mathematics and Calculations
- PHAR 112.1 Pharmacy Law
- PHAR 121.3 Foundational Sciences 1: Foundational Pathophysiology & Pharmacology
- PHAR 122.3 Foundational Sciences 2: Medicinal Chemistry and Physical Pharmacy
- PHAR 123.3 Foundational Sciences 3: Foundational Pathophysiology and Pharmacology
- PHAR 124.3 Foundational Sciences 4: Introduction to Pharmaceutics
- PHAR 152.6 Pharmacotherapeutics 1
- PHAR 153.4 Self-Care 1: Non-prescription Pharmaceuticals and Supplies
- PHAR 154.3 Self-Care 2: Non-prescription Pharmaceuticals and Supplies
- PHAR 162.3 Pharmacy Practice 1: The Patient Care Process
- ~~PHAR 170.3 Pharmacy Skills Development 1~~
- ~~PHAR 171.3 Pharmacy Skills Development 2~~
- PHAR 177.6 Pharmacy Skills Development 1
- PHAR 185.4 Experiential Learning Introductory Pharmacy Practice Experience Community
- PHAR 188.2 Experiential Learning 1
- PHAR 189.2 Service Learning
- PHAR 190.0 Introduction to Year 1
- PHAR 191.1 IPE Activities
- PHAR 192.1 IPE Activities
- PHAR 193.0 Capstone Year 1
- PHAR 212.1 Pharmacy Ethics
- PHAR 213.3 Management 1
- PHAR 224.3 Science of Pharmacotherapy 1: Pharmaceutics and Pharmaceutical Biotechnology
- PHAR 225.3 Science of Pharmacotherapy 2: Clinical Applications
- PHAR 226.3 Foundational Sciences 5 Pharmacokinetics and Biopharmaceutics
- PHAR 253.6 Pharmacotherapeutics 2
- PHAR 255.6 Pharmacotherapeutics 3
- PHAR 262.1 Pharmacy Practice 2
- PHAR 263.1 Pharmacy Practice 3
- PHAR 271.3 Evidence Based Medicine
- ~~PHAR 272.3 Pharmacy Skills Development 3~~
- ~~PHAR 273.3 Pharmacy Skills Development 4~~
- PHAR 277.6 Pharmacy Skills Development 2
- PHAR 285.4 Experiential Learning Introductory Pharmacy Practice Experience Hospital
- PHAR 288.2 Experiential Learning 2
- PHAR 290.0 Introduction to Year 2
- PHAR 291.1 IPE Activities
- PHAR 292.1 IPE Activities
- PHAR 293.0 Capstone Year 2
- PHAR 293.0 Capstone Year 2
- PHAR 315.3 Issues in Health Care and Pharmacy Practice
- PHAR 324.3 Science of Pharmacotherapy 3: Toxicology
- PHAR 350.3 Pharmacotherapy in Special Populations
- PHAR 358.6 Pharmacotherapeutics 4
- PHAR 359.6 Pharmacotherapeutics 5
- PHAR 367.1 Pharmacy Practice 5
- PHAR 368.1 Pharmacy Practice 6

- PHAR 370.3 Complex Cases
- ~~PHAR 374.3 Pharmacy Skills Development 5~~
- ~~PHAR 375.3 Pharmacy Skills Development 6~~
- PHAR 377.6 Pharmacy Skills Development 3
- PHAR 388.2 Experiential Learning 3
- PHAR 390.0 Introduction to Year 3
- PHAR 391.1 IPE Activities
- PHAR 392.1 IPE Activities
- PHAR 393.0 Capstone Year 3
- PHAR 395.3 Disease State Management Review and Update
- PHAR 481.8 Experiential Learning Advanced Pharmacy Practice Experience 1 Hospital
- PHAR 482.8 Experiential Learning Advanced Pharmacy Practice Experience 2 Community
- PHAR 483.8 Experiential Learning Advanced Pharmacy Practice Experience 3 Other Direct Patient Care
- PHAR 490.0 Introduction to Year 4
- PHAR 493.0 Capstone Year 4

Choose either of the following 2 options:

1) PHAR 484.8 Experiential Learning Advanced Pharmacy Practice Experience 4 Elective Practice
2) PHAR 485.4 and PHAR 486.4

BACHELOR OF SCIENCE IN NUTRITION

Minor Program Revisions
Replace COMM 1013 and COMM 201.3 with the following courses:
INDG 107.3 (Year 1)
COMM 225.3 (moved to Year 2)

Rationale:
INDG 107: The College recognizes the importance of providing students with foundational knowledge on the historical and ongoing issues facing Indigenous peoples, particulary as they relate to the healthcare system. This will allow students to be more empathetic, knowledgeable, and effective practitioners who are equipped to serve all communities with cultural sensitivity and competence.

COMM 225: This course is tailored specifically for non-business students, ensuring alignment with the educational goals and accreditation requirements of the Nutrition program. Students will use accounting information in the workplace, but are not primarily responsible for its preparation.

The curriculum changes will be implemented in 2026-2027.

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

Year 1
33 credit units
- BMSC 200.3 Biomolecules
- BMSC 207.3 Human Body Systems I and BMSC 208.3 Human Body Systems II (formerly PHSI 208.6)
- BMSC 230.3 Metabolism

- ~~COMM 101.3 Introduction to Business~~ INDG 107.3 Introduction to Canadian Indigenous Studies
- FABS 110.3 The Science of Food
- NUTR 120.3 Basic Nutrition
- NUTR 190.0 Introduction to the B.Sc.(Nutr.) Program
- NUTR 191.0 IPE Activities
- NUTR 192.0 IPE Activities
- NUTR 210.3 Food Fundamentals and Preparation
- NUTR 221.3 Advanced Nutrition Micronutrients
- NUTR 230.3 Professional Practice I
- PLSC 214.3 Statistical Methods
- Basic food safety training certificate

Year 2
36 credit units

- BMSC 210.3 Microbiology
- COMM 225.3 Introduction to Accounting and Financial Literacy for Entrepreneurs
- NUTR 291.0 IPE Activities
- NUTR 292.0 IPE Activities
- NUTR 305.3 Research Methods
- NUTR 310.3 Food Culture and Human Nutrition
- NUTR 321.3 Advanced Nutrition Macronutrients and Energy
- NUTR 322.3 Nutrition Throughout the Lifespan
- NUTR 330.3 Professional Practice II
- NUTR 350.3 Introduction to Public Health and Community Nutrition
- NUTR 365.3 Quantity Food Production and Service
- NUTR 366.3 Food Service Management Practicum*
- PATH 205.3 Survey of Pathology

*offered in Spring and Summer terms

Unrestricted Electives

- Choose ~~6~~ 3 credit units of unrestricted electives

Year 3
33 credit units

- ~~COMM 201.3 Introduction to Financial Accounting~~
- NUTR 391.0 IPE Activities
- NUTR 392.0 IPE Activities
- NUTR 420.3 Current Issues in Nutrition
- NUTR 425.3 Nutritional Assessment
- NUTR 430.3 Professional Practice III
- NUTR 441.3 Clinical Nutrition I
- NUTR 442.3 Clinical Nutrition II
- NUTR 450.3 Nutrition Program Planning and Evaluation
- NUTR 466.3 Organization and Management of Nutrition Services
- Advanced food safety training instruction

Unrestricted Electives

- Choose 12 ~~9~~ credit units of unrestricted electives

Year 4

30 credit units

- NUTR 533.6 Nutrition Care I
- NUTR 534.6 Nutrition Care II
- NUTR 535.6 Food Provision Management and Leadership
- NUTR 536.6 Population Health Promotion
- NUTR 537.3 Dietetic Research
- NUTR 538.3 Selected Topics in Practical Dietetic Education and Training
- Successful completion of the practicum

Edwards School of Business, March 2025 University Course Challenge
The following courses were approved through University Course Challenge but were inadvertently missed being added to the lists of choices in the program, as follows:

For Information

BComm in Management

Year 1 (30 credit units)

Year 2 (30 credit units)

Year 3 (30 credit units)

Core Requirements (9 credit units)

Choose 15 credit units from Groups 1 to 6

NOTE: Within the total of 30 credit units required in the Management major:

- a maximum of 9 credit units can be chosen from each of Groups 1-5
- a minimum of 3 credit units must be chosen from at least 5 of the 6 subject groups
- at least 3 credit units must be at the 400-level

Group 1 - Marketing

- **COMM 352.3** Marketing Strategy
- **COMM 353.3** Digital Marketing Mastery I
- **COMM 354.3** Consumer Behaviour
- **COMM 357.3** Marketing Research
- COMM 358.3
- **COMM 450.3** Issues in Marketing
- **COMM 451.3** Integrated Marketing Communication
- **COMM 452.3** Services Marketing
- **COMM 453.3** Digital Marketing Mastery II
- **COMM 454.3** Retail and Digital Marketing
- **COMM 456.3** International Marketing
- **COMM 457.3** Marketing and Popular Culture
- **COMM 458.3** Branding
- **COMM 470.3** Personal Selling

Group 2 - Accounting

- **COMM 324.3** Data Analytics for Accountants
- **COMM 325.3** Corporate Reporting and Decision-Making for Non-Accountants
- **COMM 326.3** Taxation and Business Decisions
- **COMM 398.3** Special Topics
- **COMM 410.3** Financial Statements Analysis

Group 3 - Finance

- **COMM 363.3** Intermediate Corporate Finance
- **COMM 364.3** Risk and Insurance
- **COMM 367.3** Security Analysis and Evaluation
- **COMM 368.3** Entrepreneurial Finance and Venture Capital
- **COMM 371.3** Applied Security Analysis
- **COMM 419.3** Derivative Securities and Risk Management
- **COMM 429.3** Personal Financial Planning and Wealth Management
- **COMM 466.3** International Business Finance
- **COMM 467.3** Portfolio Theory and Management

Group 4 - Human Resources

- **COMM 342.3** Organization Structure and Design
- **COMM 343.3** Recruitment Selection and Engagement
- **COMM 348.3** Leadership
- **COMM 381.3** Industrial Relations
- **COMM 382.3** Employment Law
- **COMM 384.3** Workplace Health and Safety
- **COMM 387.3** Labour Law
- **COMM 488.3** Strategic Compensation

Group 5 – Supply Chain Management

- **COMM 311.3** Business Analytics
- **COMM 393.3** Spreadsheet Modeling for Business Decisions
- **COMM 395.3** Business Forecasting

- COMM 491.3 Purchasing and Supply Management
- COMM 493.3 Quality Management and Process Improvement
- COMM 494.3
- COMM 495.3 Supply Chain Management
- COMM 496.3 Project Management
- COMM 497.3 Logistics Management

Group 6 - Management

- COMM 340.3 Introduction to International Business
- COMM 341.3 Entrepreneurial Thinking and Innovation
- COMM 345.3 Business and Public Policy
- COMM 346.3 Technology Commercialization
- ~~COMM 347.3 Indigenous Business in Canada~~
- COMM 349.3 Introduction to Entrepreneurship
- COMM 448.3

Choose 3 credit units from the following:

Choose 3 credit units from the following:

Year 4 (30 credit units)

Management Major Requirements (15 credit units)

Choose 15 credit units from Groups 1 to 6

NOTE: Within the total of 30 credit units required in the Management major:

- a maximum of 9 credit units can be chosen from each of Groups 1-5
- a minimum of 3 credit units must be chosen from at least 5 of the 6 subject groups
- at least 3 credit units must be at the 400-level

Group 1 - Marketing

- COMM 352.3 Marketing Strategy
- COMM 353.3 Digital Marketing Mastery I
- COMM 354.3 Consumer Behaviour
- COMM 357.3 Marketing Research
- COMM 358.3

- COMM 450.3 Issues in Marketing
- COMM 451.3 Integrated Marketing Communication
- COMM 452.3 Services Marketing
- **COMM 453.3** Digital Marketing Mastery II
- COMM 454.3 Retail and Digital Marketing
- COMM 456.3 International Marketing
- COMM 457.3 Marketing and Popular Culture
- COMM 458.3 Branding
- COMM 470.3 Personal Selling

Group 2 - Accounting

- COMM 321.3 Corporate Financial Reporting I
- COMM 323.3 Corporate Financial Reporting II
- COMM 324.3 Data Analytics for Accountants
- COMM 326.3 Taxation and Business Decisions
- COMM 410.3 Financial Statements Analysis

Group 3 - Finance

- COMM 363.3 Intermediate Corporate Finance
- COMM 364.3 Risk and Insurance
- COMM 367.3 Security Analysis and Evaluation
- COMM 368.3 Entrepreneurial Finance and Venture Capital
- COMM 371.3 Applied Security Analysis
- COMM 419.3 Derivative Securities and Risk Management
- COMM 429.3 Personal Financial Planning and Wealth Management
- COMM 466.3 International Business Finance
- COMM 467.3 Portfolio Theory and Management
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Group 4 - Human Resources

- COMM 342.3 Organization Structure and Design
- COMM 343.3 Recruitment Selection and Engagement

- COMM 348.3 Leadership
- COMM 381.3 Industrial Relations
- COMM 382.3 Employment Law
- COMM 384.3 Workplace Health and Safety
- COMM 387.3 Labour Law
- COMM 488.3 Strategic Compensation

Group 5 - Supply Chain Management

- COMM 311.3 Business Analytics
- COMM 393.3 Spreadsheet Modeling for Business Decisions
- COMM 395.3 Business Forecasting
- COMM 491.3 Purchasing and Supply Management
- COMM 493.3 Quality Management and Process Improvement
- COMM 494.3
- COMM 495.3 Supply Chain Management
- COMM 496.3 Project Management
- COMM 497.3 Logistics Management

Group 6 - Management

- COMM 340.3 Introduction to International Business
- COMM 341.3 Entrepreneurial Thinking and Innovation
- COMM 345.3 Business and Public Policy
- COMM 346.3 Technology Commercialization
- ~~COMM 347.3 Indigenous Business in Canada~~
- COMM 349.3 Introduction to Entrepreneurship
- COMM 448.3

Choose 9 credit units from the following:

- free senior electives