Academic Programs Committee of Council

University Course Challenge

Scheduled posting: June, 2017

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 & Bioresources
College of Arts & Science
College of Education
College of Graduate and Postdoctoral Studies
Edwards School of Business
School of Environment & Sustainability

Approval: Date of circulation: June 15, 2017
Date of effective approval if no challenge received: June 30, 2017

Next scheduled posting:

The next scheduled posting will be August 17, 2017, with a submission deadline of **August 15, 2017.** Urgent items can be posted on request.

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

College of Agriculture and Bioresources, Submission to June 2017 Course Challenge
The following curricular revisions were approved by the College of Agriculture & Bioresources Undergraduate Affairs Committee on June 7, 2017 and are being submitted to University Course Challenge for approval:

New Course:

AREC 459.3 The Economics of Agricultural Innovation
This senior undergraduate course is offered with the objective of teaching students the key processes, institutions and relationships that make up effective innovation systems. The course examines innovation systems through the use of political economy models that profile important incentives driving innovation, from discovery-based research through to commercialization and adoption. These concepts will be brought to life through local, regional and international examples of innovation systems.

Prerequisite(s): Completion of 75 credit units of university-level courses or consent of the instructor.

Instructor(s): Stuart Smyth

Rationale: Innovation is the cornerstone of the agriculture industry, be it through implements, chemicals/fertilizer or seeds. This course will provide detailed insights into how innovation systems contribute to increased productivity, means to measuring innovation and policies used to incentivize innovation. Through discussions of leading innovative agricultural products and process, students will gain knowledge on how economics influences innovation in Canada. This course was previously offered twice as AREC 498.3 and now needs to become a regularized course.

Bachelor of Science in Agribusiness [B.Sc.(Agbus.)]

Minimum Requirements for Degree (120 credit units)

Year 1 - Term 1 (15 credit units)

Year 1 - Term 2 (15 credit units)

Year 2 (30 credit units)

Requirements

Open Electives

Years 3 and 4 (60 credit units)

Requirements

Open Electives

Restricted Electives

Choose 21 credit units Restricted Electives from the following: Minimum 12 credit units must be at the 400-level. Maximum of 6 credit units of 400-level RCM classes may be taken to fulfill this requirement.

- AREC 230.3
- AREC 251.3
- AREC 254.3
- AREC 354.3
- AREC 330.3
- AREC 344.3
- AREC 346.3
- AREC 395.3
- AREC 400.3
- AREC 420.3
- AREC 428.3
- AREC 430.3
- AREC 432.3
- AREC 433.3
- AREC 434.3
- AREC 435.3
- AREC 440.3
- AREC 445.3
- AREC 451.3
- AREC 459.3
- AREC 461.3
- AREC 492.3
- AREC 495.3
- COMM 105.3
- COMM 210.3
- COMM 304.3
- COMM 340.3
- COMM 342.3
- COMM 345.3
- COMM 347.3
- COMM 354.3
- COMM 357.3
- COMM 363.3
- COMM 368.3

- **COMM 456.3**
- **RCM 400.3**
- **RCM 401.3**
- **RCM 402.3**
- **RCM 403.3**
- **RCM 404.3**
- **RCM 405.3**
- **RCM 406.3**
- **RCM 407.3**
- **RCM 408.3**
- **RRM 312.3**

For Information:

Prerequisite Change:

PLSC 345.3 — 2(3L-2P)

Pesticides and Crop Protection

The use of pesticides for crop protection, factors affecting pesticide activity and fate of pesticides in the environment are discussed. Includes the biological activity of soil and foliar applied pesticides, pesticide modes of action and resistance, and dissipation in soil. Registration, environmental legislation and residue tolerance levels in various products are also discussed.

Prerequisite(s): PLSC 201 or PLSC 222~~, and PLSC 335~~.

Note: Students with credit for PLSC 50 will not receive credit for this course.

Rationale: PLSC 345.3 and PLSC 335.3 are now both being offered in Term 1. Therefore, students will not be able to complete PLSC 335.3 before registering in PLSC 345.3.

University Course Challenge – June 2017
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)

English

Minor program revisions
Bachelor of Arts Honours in English
Add ENG 120 to the A6 requirement, to allow students in this program to count 9 credit units of 100-level ENG courses in their program, to align with all other Arts & Science students.

Bachelor of Arts Honours (B.A. Honours) - English
A6 Major Requirement (54 credit units)

Choose **12 credit units** from the following Foundation Courses:

- ENG 202.6
- ENG 203.6
- ENG 204.6
- ENG 290.6

Choose **6 credit units** from EACH of categories 1 through 3 (18 credit units in all).

Category 1: Anglo-Saxon & Medieval

- ENG 301.3
- ENG 310.3
- ENG 311.3
- ENG 312.3
- ENG 313.3
- ENG 314.3
- ENG 316.3
- ENG 402.3
- ENG 420.3
- CMRS 333.3 (May be used to fulfill a Category 1 or Category 2 requirement, but not both)

Category 2: Renaissance

- ENG 224.3
- ENG 225.3
- ENG 319.3
- ENG 322.3
- ENG 324.3
- ENG 326.3
- ENG 404.3
- ENG 406.3
- CMRS 333.3 (May be used to fulfill a Category 1 or Category 2 requirement, but not both)

Category 3: 18th/19th Century

- ENG 327.3
- ENG 331.3
- ENG 334.3
- ENG 335.3
- ENG 340.3
- ENG 341.3
- ENG 362.3
- ENG 373.3
- ENG 380.3
- ENG 410.3
- ENG 414.3
- ENG 416.3
- ENG 418.3

Choose **6 credit units** from category 4 and/or category 5:

Category 4: 20th Century

- ENG 207.3
- ENG 209.3
- ENG 242.3
- ENG 253.6
- ENG 305.3
- ENG 330.3
- ENG 338.3
- ENG 348.3
- ENG 349.3
- ENG 358.3
- ENG 359.3
- ENG 360.3
- ENG 363.3
- ENG 368.3
- ENG 381.3
- ENG 382.3
- ENG 444.3
- ENG 446.3
- ENG 462.3
- ENG 464.3
- ENG 466.3
- ENG 468.3
-

Category 5: Media, Culture, and Community

- ENG 206.3
- ENG 288.3
- ENG 307.3
- INCC 201.3
- INCC 210.3
- INCC 311.3

- INCC 401.3

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

- ENG 120.3
- 200-Level , 300-Level or 400-Level ENG Courses

Further A6 Major Requirements:
No changes

Rationale: When ENG 120.3: Introduction to Creative Writing was added to the English course slate and our program requirements were modified to reflect its status as either 3cu that could count towards the 6cu of 100-level English required for enrollment in English courses at the 200-level OR an elective that could be counted as 3cu in addition to 6cu of 100-level English (i.e. 3cu in addition to ENG 110.6 or a combination of two of ENG 111-114.3), the degree requirements for the Honours B.A. in English were not taken into account. As it stands, the Honours B.A. meets the maximum 60cu of a single subject that a student can count towards a degree. In other words, 60cu is met through a combination of A2: Language Requirement (6cu of 100-level English) and A6: Major Requirement (54 cu of 200-, 300-, and 400-Level English courses). By adjusting the A6 Major Requirement to include ENG 120 we will enable students in Honours English to take this course as a 100-level elective, enable students who declare as Honours English students later in their degree to retain 3cu that would otherwise not count towards their degree, and provide students with the opportunity to engage with Creative Writing at an introductory level.

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

Interdisciplinary Culture & Creativity

Minor course revisions – Correction to May 2017 UCC
INCC 220.1 Jazz and Related Creative Studies Capstone Course
New course label and number: **MUS 201**
The course will now be under the academic authority of the Department of Music.
Rationale: The course prefix change to MUS designation will likely increase student enrolment; this prefix change more accurately reflects the academic 'home' of the course (as this course is taught exclusively by music faculty); this prefix change will help the Department of Music plan accordingly (i.e. within the annual departmental scheduling of all MUS courses). The course number is changing due to availability of numbers in “MUS”.

Political Studies

Correction to prerequisite
POLS 341.3 Asian Government and Politics
Prerequisite(s): POLS 111.3 and (POLS 112.3 or IS 110.3 ~~100.3~~).
Rationale: This corrects a typo in the original course submission – IS 100.3 does not exist.

College of Education – June 2017 University Course Challenge

The following curricular change was approved by the College of Education Faculty Council on June 2, 2017 and is now being submitted to University Course Challenge for approval:

Program Revision

Bachelor of Education (B.Ed.)

To add INDG 212.3: Nehiyaw Tapsinowin Cree Cultural Histories to the list of acceptable History Courses for the Social Sciences/Social Studies Teaching Areas to meet Bachelor of Education program requirements. This revision applies to all B.Ed. program routes.

- **Elementary- Teaching Area 1**

Social Sciences/Social Studies

Choose 6 credit units from the following Indigenous Studies courses:

Choose 6 credit units from the following History courses:

- INDG 212.3
- INDG 280.6
- INDG 281.3
- 100-Level, 200-Level, 300-Level or 400-Level HIST Courses

Choose 6 credit units from the following Social Science courses:

Elementary – Teaching Area 2

Social Sciences/Social Studies

Choose 3 credit units from the following Indigenous Studies courses:

Choose 3 credit units from the following History courses:

- INDG 212.3
- ~~INDG 281.3~~ INDG 280.6
- INDG 281.3
- 100-Level, 200-Level, 300-Level or 400-Level HIST Courses

Choose 6 credit units from the following Social Sciences courses:

Secondary – Teaching Area 1

Social Sciences/Social Studies

Choose 6 credit units from the following Indigenous Studies courses:

Choose 6 credit units from the following History courses:

- INDG 212.3
- INDG 280.6
- INDG 281.3
- 100-Level, 200-Level, 300-Level or 400-Level HIST Courses

Choose 12 credit units from the following Social Sciences courses:

Secondary – Teaching Area 2

Social Sciences/Social Studies

Choose 6 credit units from the following Indigenous Studies courses:

Choose 6 credit units from the following History courses:

- INDG 212.3
- INDG 280.6
- INDG 281.3
- 100-Level, 200-Level, 300-Level or 400-Level HIST Courses

Choose 3 credit units from the following Social Sciences courses:

The following curricular change was approved by the College of Education Faculty Council on June 2, 2017 and is being submitted here for approval:

Course Revision

- To relabel TESL 33 as **TESL 333.3**

Rationale: In order to receive course credit as part of the EAL Post Degree Certificate TESL 33 needs to be renamed to TESL 333 and converted into a credit course. The course itself has been taught for 20 plus years and is currently recognized by SPTRB as contributing to an AQC. In addition to making the course available for credit the course will also be redeveloped for online delivery.

TESL ~~33~~ 333.3
~~English Grammar and Phonology~~ The Structure of Language

Elements of English grammar, discourse structure, sound system, and suprasegmental features will be examined in some depth. The focus is on Standard Canadian English. Techniques of instruction will be discussed.

Prerequisite(s) or Corequisite(s): ~~TESL 31 or TESL 34; or TEFL 12~~ ECUR 291.3.
Note: Costs in addition to tuition may apply to this course.

Edwards School of Business, University Course Challenge Submission, June 2017

The following items were approved the curriculum committee on April 27, 2017 and are being submitted here for approval:

Program Revisions

B.Comm. Core Requirements:

COMM 402 should be replaced by COMM 447.3 *Entrepreneurship and Venture Development* to the core requirements for the B.Comm. degree. Students who have not completed COMM 402 previous to 201809 will be required to complete COMM 447.

Bachelor of Commerce (B.Comm.)

Year 1 (30 credit units)

Year 2 (30 credit units)

Year 3 (30 credit units)

Year 4 (30 credit units)

- COMM 401.3
- ~~COMM 402.3~~ COMM 447.3
- COMM 491.3
- COMM 493.3
- COMM 495.3

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

- free senior electives
-

Rationale:

The Edwards School of Business is launching a new initiative around entrepreneurship led by the Management and Marketing department. This initiative - The Edwards Entrepreneurship Initiative (EEI) - will foster the entrepreneurial spirit at the University of Saskatchewan.

Guiding Principles:

- The EEI will support student learning in Edwards entrepreneurship classes.
- The EEI will provide Edwards students with new opportunities to meaningfully participate in Saskatchewan's entrepreneurship ecosystem.
- The EEI will provide students from across the University of Saskatchewan with opportunities to meaningfully participate in Saskatchewan's entrepreneurial ecosystem.
- The EEI will provide services to complement those offered by the Wilson Centre, Innovation Enterprise, Enactus, and other University of Saskatchewan organizations that advance entrepreneurship.
- The EEI will provide Edwards students with opportunities to meaningfully engage with other University of Saskatchewan students to advance entrepreneurship.

The foundational part of this initiative will be that all Edwards's students are exposed to entrepreneurship through Comm 447 the Entrepreneurship and Venture Development Course. Through a series of workshops and deliverables, students (individually or in limited circumstances- pairs) develop a comprehensive business plan. In doing so students are required to bring together knowledge from the disciplines of finance, marketing, accounting, operations management, human resources, and business strategy. This course will be the culminating course for students in their degree and will integrate core business knowledge and strengthen written and oral communications skills.

Student feedback over the last several years has been that course content is too similar to the content in other core courses and that the learning outcomes are not sufficiently rigorous to warrant inclusion in fourth year core. This course will remain as an elective option for fourth year Edwards students.

Bachelor of Commerce (B.Comm.) - Accounting

Substitute COMM 486 *Case Analysis and Presentation Skills* (JDC West) for COMM402 *Business Negotiations* in the accounting major for those students approved or selected for JDC or other college approved case competitions.

Year 1 (30 credit units)

Year 2 (30 credit units)

Year 3 (30 credit units)

Year 4 (30 credit units)

This program will be in effect for students entering the Accounting (ACC) major in the 2016-17 academic year. Students currently in the ACC major will be allowed to complete the major requirements for the academic year in which they were admitted.

- COMM 401.3
- COMM 402.3 (Students approved for JDC or other college-approved case competitions may use COMM 486 instead of COMM 402. Students must seek approval of the Edwards School of Business.)
- COMM 406.3
- COMM 407.3
- COMM 412.3
- COMM 414.3
- COMM 421.3
- COMM 433.3
- COMM 438.3

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

- free senior electives

Rationale: To meet CPA accreditation and provide students with the appropriate pre-requisite requirements the Accounting major is restricted to only one elective course. This change would allow students flexibility in their programming. A limited number of students would be impacted by this change.

Bachelor of Commerce (B.Comm.) - Operations Management

Add COMM 304.3 *Introduction to Business Law* and COMM 329.3 *Personal Finance* to the list of approved electives for the OM major.

Year 1 (30 credit units)

Year 2 (30 credit units)

Year 3 (30 credit units)

- COMM 306.3
- COMM 307.3
- COMM 393.3
- COMM 395.3

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

- 100-level non-Commerce electives

OM Major Electives

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

- COMM 304.3 Introduction to Business Law
- COMM 321.3
- COMM 329.3 Personal Finance
- COMM 346.3
- COMM 357.3
- COMM 368.3
- COMM 494.3

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

- free senior electives

Year 4 (30 credit units)

- COMM 401.3
- COMM 402.3
- COMM 491.3
- COMM 493.3
- COMM 495.3

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

- free senior electives

Rationale: The number of electives available are too restrictive. Two of the courses on the approved list were not offered in 2017/2018. These additions provide students with a broader selection.

Course Revisions:

COMM 447.3 — 1/2(1S-2P)
Entrepreneurship & Venture Development

Examines the processes and skills required for the successful formation of new business ventures and the on-going management of small businesses. Students can examine their own entrepreneurial potential and experience the process of new venture formation and financing through the preparation and formal presentation of a plan for the initiation of a business venture of their choice.

Formerly: MGT 447.3
~~**Permission of department required**~~**.**
Prerequisite(s): 36 COMM credit units, including COMM 203, COMM 204, COMM 205, COMM 210 and COMM 211
Note: Students may receive credit for only one of COMM 447.3, BPBE 495.3, AREC 495.3, or ENT 310.3.

Rationale: Restrict registration to students in their fourth year of the program

School of Environment and Sustainability
University Course Challenge Submission
Changes to Certificate in Sustainability
June 2017

Overview Information Regarding Proposed Changes:
The College of Agriculture and Bioresources has made a change to one of its classes that is used in our list of classes for the Tools and Techniques section of the Certificate in Sustainability. They will no longer be offering RRM 321.3 (Resource Data and Environmental Modeling) and instead it will be replaced with RRM 323.2 (now Resource Data and Environmental Modeling) and RRM 201.1 (Geographical Information Systems). This has gone through the University Course Challenge and been approved. Essentially they have pulled the GIS component out and made it a 1 credit unit online course and the other content is in the 2 credit unit course.

The proposed changes to the Certificate in Sustainability can be seen below in red.

Certificate in Sustainability

The Certificate in Sustainability is intended to give students theoretical, methodological, strategic, and substantive exposure to sustainability-related concepts and practice. Students will choose either the natural resources and sustainability focus, the community and sustainability focus or the food systems and sustainability focus. The certificate will allow students to engage in problem-based, experiential learning across a broad range of sustainability topics. The program will begin in the student's second year with ENVS 201.

Program Requirements

Certificate in Sustainability (21 credit units)

Required Courses (9 credit units):
- ENVS 201.3
- ENVS 401.3
- INDG 107.3

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

Techniques and Tools for Sustainability
- ENVE 481.3
- EVSC 203.3
- GEOG 290.3
- GEOG 385.3
- GEOG 386.3
- INDG 210.3
- ~~RRM 321.3~~ RRM 323.2 AND RRM 201.1
- SOC 225.3
- SOC 232.3
- SOC 333.3

Rationale:
This is the same course just split from a 3 credit unit into a 2 credit unit and 1 credit unit. Listing as we have done above means students have to take both courses to meet the requirement in the Tools and Techniques section and still receive the same content as they did with RRM 321.3.

Motion from SENS Faculty Council Meeting on June 9, 2017 to Approve the Above Changes:

See next page.

From: Martin, Jennifer
To: Eccleston, Andrea
Subject: Faculty Council June 9 - Approved Motion
Date: Friday, June 09, 2017 1:25:21 PM

Good afternoon Andrea,
The SENS Faculty Council considered the request for changes to the Certificate in Sustainability at their meeting this morning. I am pleased to provide you with the outcome of their decision.

MOTION: That the SENS Faculty Council approve the change in required courses for the Certificate in Sustainability from RRM 321.3, which is no longer offered, and replace with RRM 323.2 and RRM 201.1.. Moved by Laroque/Whitfield. **CARRIED.**

Kind regards,

Jennifer L Martin, Administrative Officer
School of Environment and Sustainability
University of Saskatchewan
Room 327, Kirk Hall, 117 Science Place
Saskatoon, SK S7N 5C8
Ph: 306-966-8431

College of Graduate and Postdoctoral Studies (CGPS)
The curricular change listed below have been approved by the College of Graduate and Postdoctoral Studies and are submitted to the University Course Challenge for approval.

University Course Challenge – JUNE 2017

Program Modifications:

Master of Business Administration - Change to program requirements
A minimum 45 credit units including:
MBA 803.3
MBA 813.3
MBA 819.3
MBA 825.3
MBA 828.3
MBA 829.3
MBA 830.3
MBA 846.3
MBA 865.3
MBA 870.3
MBA 877.3
MBA 878.3
~~MBA 883.3~~MBA 885.3: Essential Management Skills
MBA 889.3
MBA 992.3

Juris Doctor and Master of Business Administration combined degrees – change to program requirements
GPS 960.0
GPS 961.0 if research involves human subjects
GPS 962.0 if research involves animal subjects
LAW 201.6
LAW 204.6
LAW 208.6
LAW 212.6
LAW 231.3
LAW 233.3
LAW 243.0
LAW 340.3
LAW 421.3
LAW 326.3 or LAW 361.3 or LAW 463.3
LAW 430.3
LAW 439.3
LAW 467.3
An additional 33 credit units of LAW course work
MBA 803.3
MBA 819.3
MBA 825.3

Contact: Kelly Clement: Kelly.clement@usask.ca; 306-966-2229

MBA 828.3
MBA 829.3
MBA 830.3
MBA 846.3
MBA 865.3
MBA 870.3
MBA 878.3
~~MBA 883.3~~MBA 885.3: Essential Management Skills
MBA 889.3
MBA 992.3

MBA 885.3: Essential Management Skills
Students will participate in a one-week intensive experiential management skills retreat in beautiful Northern Saskatchewan. This course will provide MBA students with skills to enhance their self-understanding; improve their interpersonal effectiveness and successfully manage in complex environments. Students will explore their personal management style and improve their communication skills; gain valuable insights into how to manage difficult people; conduct interest-based negotiations; and help their subordinates achieve improved levels of performance. We will also highlight the role of personal wellness as a critical aspect of management performance.
In addition to the stated goals of the course, students will be introduced to Indigenous culture through exposure to the teachings of an Elder who will be invited to perform an opening prayer at the welcome reception and to provide a link from traditional indigenous teachings to the wellness framework introduced in the course. The Elder will also be invited to provide a closing prayer at the final reception.
Prerequisite: MBA 803
Instructor: Noreen Mahoney

Rationale: The Edwards MBA engages in a continuous improvement review cycle through our Assurance of Learning framework, which highlights seven learning goals, (Appendix 4) and our decision framework around programmatic changes. As part of this process, we regularly administer student-learning assessments and feedback surveys and make improvements based on our findings. The target demographic of our program is mainly students who live and work in Saskatoon that take our program part-time as a way to gain general business knowledge and credentials for promotion or career transition. Reaction to the study tour from our students is mixed in that many of them are not interested in a trip that takes them out of the country and away from their families or day–to-day responsibilities for such a significant period. In addition, International students did not see the value of an International Study Tour that brought them back to their home community. In some cases students had difficulty obtaining the necessary paperwork to allow them the appropriate travel visas to participate in the Study Tour. Further stakeholder analysis identified that the positive aspects of the trip were the team building and leadership growth required to adapt to a new environment. These same skills will be developed in a more localized, shorter, intense workshop that enables them to master the skills necessary to manage in a complex environment through MBA 885, without the costs and logistical challenges of going to China.
Approved by CGPS May 31, 2017

Contact: Kelly Clement: Kelly.clement@usask.ca; 306-966-2229

New Courses:

HIST 888.0: Reading French for History
This course prepares graduate students in history and cognate disciplines to develop French reading and translation skills as they pertain to their future research interests. The primary emphasis will be on the comprehension of a wide variety of French texts and how best to render them into English. The course will also present a rapid overview of French grammar with some phonological and cultural references. Primary sources will be taken from a wide selection of scholarly texts written by francophone authors.
Note: HIST 888.0 is equivalent to INCC 801.0. Students with credit for INCC 801.0 may not receive credit for HIST 888.0.
Instructor: Giuliano Gullotti, PhD
Rationale: For roughly the past decade, the INCC offered a course INCC 801 Reading French, which enabled graduate students, but especially those in English, Music, and History, to fulfill their departmental additional language requirements in an efficient manner. History's MA and PhD programs require students to have a reading knowledge of the language that is identified as part of their program. In the case of History it was particularly important for students working on North American topics to have an ability to read French-language scholarship.
In the early part of 2016, the long-standing instructor of INCC passed away. Additionally, it has become clear the that INCC is no longer able to sustain the course.
Approved by CGPS April 10, 2017

FDSC 880.3: Emulsion Science and Technology
Emulsions are colloids where two immiscible phases (e.g., oil and water) are intimately dispersed. A wide variety of products, both natural and manufactured, ranging from foods, drugs and cosmetics to paints and petrochemicals exists either partially or wholly as emulsions. The properties of the interface between the two phases play an important role in improving and controlling the quality of these products. This course will provide in-depth knowledge on the basic principles of emulsion and surface science, their mechanisms of formation, and physicochemical properties. Application of emulsions in food, pharmaceutical and other industries will also be discussed. Students will also have opportunities to critically evaluate and discuss research papers pertinent to the scientific discipline.
Instructor: Supratim Ghosh, PhD
Rationale: Several faculty members in the Department of Food and Bioproduct Sciences are involved with research work on emulsions; however, most of the graduate students recruited for these research projects are not familiar with the discipline of emulsion and surface science. Having a course dedicated to this subject area will be very helpful to these students' research activities and also to other students interested in this diverse field of science that is applicable to foods, pharmaceuticals, cosmetics, petrochemicals and many other industrial applications.
Approved by CGPS April 10, 2017

VSAC 820.4: Advanced Clinical Practice 1
This course provides advanced clinical training for graduate students enrolled in a SACS clinical residency and a Master of Science – Project degree. This course is designed for the first year of clinical training in such programs. The goal of this course is to assist in preparation for specialty board certification examinations, to facilitate development of critical thinking and problem solving skills, to foster a culture of academic inquiry based on clinical experiences, to instruct students in the critical review of veterinary literature and to develop the students' presentation and discussion skills. In addition to clinical training received as a component of daily clinical practice, students receive formal instruction in the form of weekly journal club/textbook rounds/topic discussions. Specific expectations and course details for each

specialty are outlined in the discipline-specific sections below. Grading is based on the graduate students' performance of their clinical duties, their participation and performance in structured instructional sessions, and their progress towards becoming board-certified specialists.
Restrictions: For students in the MSc-Project option in Small Animal Clinical Sciences
Rationale: Students in clinical residency programs require specific training to develop the knowledge and skills required for specialty board certification. Additionally they must develop critical thinking and problem-solving skills as well as demonstrate academic integrity. Clinical skills are developed through practical and graduated experiential learning under the direct supervision and mentorship of specialists in the discipline, clinical rounds, and seminars. In addition, students receive formal instruction in the form of weekly journal club and/or topic discussion rounds. This graduate learning occurs over a period of three years for most specialty sections. These experiences already exist and occur as informal training, or as special topics courses depending on the specialty section. The department would like to formalize the graduated learning experience into three graduate courses (Advanced Clinical Practice 1, 2, and 3) with specific learning outcomes, expectations, and formal evaluation. This will streamline our course offerings and reduce the number of special topics courses that are currently offered.
Approved by CGPS April 10, 2017

VSAC 821.4: Advanced Clinical Practice 2
This course provides advanced clinical training for graduate students enrolled in a SACS clinical residency and a Master of Science – Project degree. This course is designed for the second year of clinical training in such programs. The goal of this course is to assist in preparation for specialty board certification examinations, to facilitate development of critical thinking and problem solving skills, to foster a culture of academic inquiry based on clinical experiences, to instruct students in the critical review of veterinary literature and to develop the students' presentation and discussion skills. In addition to clinical training received as a component of daily clinical practice, students receive formal instruction in the form of weekly journal club/textbook rounds/topic discussions. Specific expectations and course details for each specialty are outlined in the discipline-specific sections below. Grading is based on the graduate students' performance of their clinical duties, their participation and performance in structured instructional sessions, and their progress towards becoming board-certified specialists.
Restrictions: For students in the MSc-Project option in Small Animal Clinical Sciences
Rationale: Students in clinical residency programs require specific training to develop the knowledge and skills required for specialty board certification. Additionally they must develop critical thinking and problem-solving skills as well as demonstrate academic integrity. Clinical skills are developed through practical and graduated experiential learning under the direct supervision and mentorship of specialists in the discipline, clinical rounds, and seminars. In addition, students receive formal instruction in the form of weekly journal club and/or topic discussion rounds. This graduate learning occurs over a period of three years for most specialty sections. These experiences already exist and occur as informal training, or as special topics courses depending on the specialty section. The department would like to formalize the graduated learning experience into three graduate courses (Advanced Clinical Practice 1, 2, and 3) with specific learning outcomes, expectations, and formal evaluation. This will streamline our course offerings and reduce the number of special topics courses that are currently offered.
Approved by CGPS April 10, 2017

VSAC 822.4: Advanced Clinical Practice 3
This course provides advanced clinical training for graduate students enrolled in a SACS clinical residency and a Master of Science – Project degree. This course is designed for the third year of clinical training in such programs. The goal of this course is to assist in preparation for specialty board certification examinations, to facilitate development of critical thinking and problem solving skills, to foster a culture

of academic inquiry based on clinical experiences, to instruct students in the critical review of veterinary literature and to develop the students' presentation and discussion skills. In addition to clinical training received as a component of daily clinical practice, students receive formal instruction in the form of weekly journal club/textbook rounds/topic discussions. Specific expectations and course details for each specialty are outlined in the discipline-specific sections below. Grading is based on the graduate students' performance of their clinical duties, their participation and performance in structured instructional sessions, and their progress towards becoming board-certified specialists.
Restrictions: For students in the MSc-Project option in Small Animal Clinical Sciences
Rationale: Students in clinical residency programs require specific training to develop the knowledge and skills required for specialty board certification. Additionally they must develop critical thinking and problem-solving skills as well as demonstrate academic integrity. Clinical skills are developed through practical and graduated experiential learning under the direct supervision and mentorship of specialists in the discipline, clinical rounds, and seminars. In addition, students receive formal instruction in the form of weekly journal club and/or topic discussion rounds. This graduate learning occurs over a period of three years for most specialty sections. These experiences already exist and occur as informal training, or as special topics courses depending on the specialty section. The department would like to formalize the graduated learning experience into three graduate courses (Advanced Clinical Practice 1, 2, and 3) with specific learning outcomes, expectations, and formal evaluation. This will streamline our course offerings and reduce the number of special topics courses that are currently offered.
Approved by CGPS April 10, 2017

SLSC 808.3: Stable Isotope Applications in Soil Science
Stable isotope techniques are important tools used by soil scientists to understand fundamental mechanisms involved in terrestrial nutrient cycling and soil organic matter formation and persistence. Students will become familiar with the application of stable isotope techniques applied to research questions in soil biogeochemical cycling with a focus on nitrogen (N) and carbon (C) transformations and brief introductions to the use of sulphur, oxygen, and hydrogen isotopes. Soil biogeochemistry applications in natural and managed ecosystems will be highlighted. Students will learn basic concepts of stable isotopes and the principles of stable isotope techniques used in soil science research through weekly lectures, practice problem sets using raw stable isotope data, and in-class discussions and critiques of original research and review articles specific to soil science.
Instructor: Melissa Arcand, PhD
Rationale: This course had been deleted. A new instructor is able to deliver the course, and it is in demand for students in the research area.
Approved by CGPS April 10, 2017

ARCH 861.3: Boreal Forest Archaeology
This course will provide students with an advanced understanding of boreal forest archaeology in Canada, focusing on northern Saskatchewan and Alberta, as well as adjacent and/or relevant parts of British Columbia, Alaska, the Yukon, the Northwest Territories, Nunavut, and Manitoba. Readings will incorporate academic publications on these regions, but will also draw, as possible, from the extensive body of unpublished cultural resource management reports that have been generated as part of the ongoing industrial developments in northern Canada. This combination of resources will provide an up-to date picture of current knowledge regarding these regions' archaeology, with a particular focus on problems and progress in the creation of accurate and reliable culture histories. Discussion will focus on analyzing and synthesizing these bodies of literature in order to thoroughly examine the methodological and theoretical issues that have hampered the development of archaeological investigation in this region of the boreal forest.

Restrictions: Enrolment in the MA program in Archaeology.
Prerequisite: ARCH 350, or equivalent, or permission of the instructor
Instructor: Glenn Stuart, PhD
Rationale: The course is a necessary requirement for graduate students wanting to conduct research in the boreal forest.
Approved by CGPS May 10, 2017

ARCH 862.3: Environmental Archaeology
This course will provide students with an advanced understanding of paleoenvironmental research as it applies to archaeological investigation. Though the course will focus on the Northern Plains and/or Boreal Forest of Saskatchewan and surrounding areas, it will include examples derived from further afield, as required to provide a fuller understanding of the subject matter. Readings will predominately derived from widely available academic publications, but may also incorporate material from unpublished or narrowly circulated cultural resource management reports ("grey" literature). This combination of resources will provide an up-to-date picture of current knowledge regarding the use and application of paleoenvironmental research to archaeology, with a particular focus on problems and progress in the creation of palaeoenvironmental data at a scale and scope suitable for archaeological investigation. Discussion will focus on analyzing and synthesizing these bodies of literature in order to thoroughly examine the methodological and theoretical issues that have hampered the development of paleoenvironmental sequences at a scale and scope necessary to inform archaeological data on the Northern Plains and/or Boreal Forest.
Restrictions: Enrolment in the MA program in Archaeology.
Prerequisite: Permission of the instructor
Instructor: Glenn Stuart, PhD
Rationale: The course is necessary for students conducting research in Environmental Archaeology
Approved by CGPS May 10, 2017

VLAC 875.3: Advanced Large Animal Internal Medicine
This is an advanced graduate seminar course for clinical residents and graduate students who need in-depth knowledge of large animal internal medicine. The course is designed to help reisdents prepare for large animal internal medicine and bovine/equine practitioners' board examinations.
Instructors: Katharina Lohmann (MedVet, PhD DACVIM), Julia Montgomery (MedVet, PhD DACVIM), Fabienne Uehlinger (MedVet, PhD DACVIM)
Rationale: This course replaces VLAC 873 and VLAC 874. The change is part of curricular renewal for the department's non-thesis master's degree program. This new course will improve comparative cross-species training for graduate students and allow faculty with equine and bovine expertise to contribute to a common course.
Approved by CGPS May 10, 2017

NURS 862.3: Integrative Review Critical Appraisals of Health Evidence
In this course, graduate students will have the opportunity to concentrate on a substantive area in health literature. Scholarly activities in this course will facilitate the exploration of different types of literature review methods, the development of a research question, and a review and critical appraisal of the literature.
Restriction: Enrolment in a graduate program in Nursing, or with departmental permission
Rationale: The reason for this course is that it was offered twice as a special topics course and has become very popular with PhD students in the College of Nursing. Now that the Master of Nursing Course Based program and Master of Nursing Thesis programs have open electives this could be a

course of interest to the master's students in the College of Nursing as well. We would also like to open this course up to students in other departments who may find it appealing.
Approved by CGPS May 10, 2017

BIOE 805.3: Introduction to Magnetic Resonance
Topics covered will include: NMR physics, pulse sequences, relaxation, diffusion tensors, functional imaging, spectroscopy, flow and perfusion, elastography, polarized gas imaging, image formation and hardware design.
Prerequisite: Permission of the instructor.
Instructor: Gord Sarty, PhD
Rationale: The course had been deleted, but it is a necessary part of many biomedical engineering thesis projects.
Approved by CGPS May 10, 2017

GEOG 847.3: Advanced Planning with Indigenous Communities
The course focuses on the theory and methods of indigenous community planning in reserve, rural, urban, northern, and international contexts. Students will apply course content in classroom discussions and to produce a research essay. Guest lectures from practitioners and a field trip are additional highlights to the learning experience.
Note: GEOG 847.3 is mutually-exclusive with PLAN 445.3. Students cannot obtain credit for both.
Instructor: Ryan Walker, PhD
Rationale: It reflects a principal area of research expertise of Department faculty and a rising proportion of graduate students in the Department are undertaking thesis research that relates to Indigenous communities, often community planning specifically. The course maps clearly onto the lead faculty instructor's scholarship.
Approved by CGPS June 7, 2017

VTPA 878.3: Veterinary Clinical Pathology for Veterinary Internal Medicine and Surgery Residents
The main objective of this course is to provide the student an opportunity to study the principles of cytology and clinical pathology as well as gain experience evaluating clinical case data. This course will meet the requirements of the ACVS and ACVIM for board preparation in the respective fields.
Instructor: Hilary Burgess, BSc, DVM, DVSc, Diplomate ACVP
Rationale: This course provides pathology training for clinical residents within the college who are intending to pursue board certification within their specialty. Exposure to clinical pathology practices under the guidance of a board certified pathologist is a requirement for the ACVS and AVCIM prior to writing the board exams in those specialties. This course provides this resource within the WCVM. It has been run twice in its current format, has approval from the heads of the large and small animal clinical science departments, and has been well reviewed.
Approved by CGPS June 7, 2017

VTPA 879.3: Veterinary Anatomic Pathology for Veterinary Internal Medicine and Surgery Residents
The main objective of this course it to provide experience in anatomic pathology. This will be achieved by performing post-mortem examinations, histological evaluations of necropsy and biopsy specimens and review of principles of gross pathology. The course will meet the requirement of the ACSV and ACVIM for board preparation.
Instructor: Helene Philibert, DVM, MvetSc, Diplomate American College of Veterinary Pathologists, Anatomic Pathology

Rationale: This course provides one week pathology training for clinical residents within the college who are intending to pursue board certification within their specialty. Exposure to the practice of anatomic pathology under the guidance of a board certified pathologist is a requirement of the American College of Veterinary Surgeons and American College of Veterinary Internal Medicine prior to writing the board exams in those specialties. This course provides this resource within the WCVM. It has been run twice in its current format, has approval from the heads of the large and small animal clinical science departments, and has been well received.
Approved by CGPS June 7, 2017

Course Modification:
CMPT 819.3 — 1/2(3L)
Advanced Image Processing and Computer Vision

Presents the fundamentals of theory and practice of image processing and computer vision. A range of topics are presented covering the phases of a typical image processing and computer vision pipeline: image preprocessing, image segmentation, region description, and classification/decision-making. Theory is practiced through computer programming assignments using a modern image processing library, and a course project. Students completing this course can expect to be able to solve image processing and computer vision problems of up to moderate difficulty that increasingly arise across a wide range of disciplines and application areas.
~~An introduction to image processing and computer vision, including coverage of topics such as the basics of image representation and manipulation, edge detection, image segmentation, photometric stereo and shape from shading, optical flow, and pattern recognition.~~
Note: CMPT 819 and CMPT 487 are mutually-exclusive. Students cannot obtain credit for both.

Course Placeholder Deletion:
SOC 910.0 — 1&2
Research Internship (China)

Full-time formal or practical contributions to a research program in an unfamiliar environment. Students in dual M.A. in Globalization and Development will register for this course in lieu of SOC 994 during required terms in China.
Background:
A dual degree M.A. Sociology program option was approved by CGSR in 2006 with the first intake of students occurring in September 2007. This dual degree program was in partnership with Xi'an Jiaotong University in China.
In 2006 a new SOC 910 course was proposed through Course Challenge. SOC 910.0 "Research Internship (China)" was approved through Course Challenge on April 25, 2006. This course was to act as a placeholder course rather than an academic course. Dual degree M.A. students were to register in SOC 910 in lieu of SOC 994 during the time they were to be at Xi'an Jiaotong in China doing research so that they were considered full-time for Time Status, loans and T2202 purposes, but they were not to be assessed any tuition, fees, or minimum registration fees during those terms.
In 2017 an updated graduate dual degree policy was approved. The approved policy indicates that standard tuition and fees should apply to dual degree students. Based on the direction of the policy, a placeholder course is not necessary for graduate dual degree programs since students will be registered in the 994/996 course while at an external institution. In addition to the policy removing any necessity for this placeholder course, it is important to note that dual degree agreement between the U of S and Xi'an Jiaotong University has expired.

Contact: Kelly Clement: Kelly.clement@usask.ca; 306-966-2229

For information:

Course modification:
JSGS 869.3 — 1&2(3S)
~~Readings~~ Ideas in Public Policy

The objective of this course is to review and discuss major theoretical perspectives that contribute to our understanding of public policy. Featuring extensive class discussions, the course focuses on three related factors: ideas, institutions, and power, and will help research students grasp major theoretical debates in policy analysis, with a special emphasis on sociological, political science, and interdisciplinary perspectives.~~Examines key readings in the public policy literature and provides students with an overview of key concepts and outcomes from political science, economics, sociology, and law that are germane to the theory and practice of public policy. The aim of the course is to provide the participants with a greater understanding of classical and contemporary theories of public policy and the ability to critically analyze and compare public policy. The material covered in the course serves as the foundation for the PhD comprehensive exam.~~

Formerly: PUBP 820
Restriction(s): Admission into the JSGS Ph.D. program.
Note: Students with credit for PUBP 820 will not receive credit for this course.
Approved by CGPS April 10, 2017

GPS 974.0 — 1/2
Advanced Graduate Professional Skills

This course is designed for graduate students and post-doctoral fellows to foster the development of professional skills in academia and beyond. Requirements include a self-directed learning plan, monthly discussions, and a reflective professional skills portfolio and presentation. Students should register in this course at the same time as completing the requirements for the Graduate Professional Skills Certificate.

Formerly: GSR 974
Prerequisite~~(s)~~ or corequisite: GPS 984.0~~; GPS 960.0; and at least 20 hours of elective seminars and/or workshops subject to instructor's approval.~~
~~**Note:** Students with credit for GSR 974 will not receive credit for this course.~~

Splitting a 3 cu course into three 1 cu courses:

~~**PLSC 813.3 — 2(3L)**~~
~~Statistical Methods in Life Sciences~~

~~Some parametric statistical methods commonly used in agriculture and experimental biology. Introduction to factorial experiments and analysis of covariance. Emphasizes the principles and procedures of experimental designs.~~

~~**Prerequisite(s):** PLSC 214.~~

Contact: Kelly Clement: Kelly.clement@usask.ca; 306-966-2229

PLSC 835.1: Statistical Foundations
Review of basic statistical concepts and an introduction to statistical computing. Topics include applying classical statistical methods to standard experimental designs, and basic use of modern statistical computing software.
Prerequisite: permission of the instructor
Instructor: Eric Lamb, PhD
Note: Students with credit for PLSC 813.3 may not receive credit for this course.

PLSC 836.1: Experimental Analysis
Training in the design and analysis of complex experiments. Topics will include the design of agronomic field experiments and an introduction to the theory and practice of mixed models with a focus on the analysis of multisite field experiments.
Prerequisite: PLSC 835.1, SLSC 851.1, ANSC 801.3 or permission of the instructor
Instructor: Eric Lamb, PhD
Note: Students with credit for PLSC 813.3 may not receive credit for this course

PLSC 837.1: Advanced Linear Modeling
Training in the use of modern linear modeling techniques. Topics will include the use of generalized linear models for non-normal data, generalized additive models for non-linear relationships, and structural equation modeling.
Prerequisite: PLSC 835.1, SLSC 851.1, ANSC 801.3, or permission of the instructor
Instructor: Eric Lamb, PhD
Note: Students with credit for PLSC 813.3 may not receive credit for this course

For Approval:

Program Modifications:
Physics and Engineering Physics – Ph.D. – remove restricted electives
Doctor of Philosophy (Ph.D.) - Direct Entry
Degree Requirements
Students must maintain continuous registration in the 996 course.
At least 9 credit units of course work at the graduate level must be successfully completed in the first year of the program.
Within the first year of the program, successfully complete a Ph.D. Qualifying Examination that is at least as rigorous as the defence for a Master's thesis in the program area.
GPS 960.0
GPS 961.0 if research involves human subjects
GPS 962.0 if research involves animal subjects
a minimum of 21 credit units~~, including: PHYS 812.3 or PHYS 873.3 or PHYS 886.3~~
PHYS 990.0
PHYS 996.0
comprehensive exam
thesis defence

Doctor of Philosophy (Ph.D.) - Non-Direct Entry
Degree Requirements
Students must maintain continuous registration in the 996 course.
GPS 960.0

Contact: Kelly Clement: Kelly.clement@usask.ca; 306-966-2229

GPS 961.0 if research involves human subjects
GPS 962.0 if research involves animal subjects
minimum of 9 credit units~~, including: PHYS 812.3 or PHYS 873.3 or PHYS 886.3~~
PHYS 990.0
PHYS 996.0
thesis defence
comprehensive exam
qualifying exam

Transfer from Master's to Ph.D.
Degree Requirements
Students must maintain continuous registration in the 996 course.
GPS 960.0
GPS 961.0 if research involves human subjects
GPS 962.0 if research involves animal subjects
a minimum of 21 credit units~~, including:~~
PHYS 990.0
PHYS 996.0
~~PHYS 812.3 or PHYS 873.3 or PHYS 886.3~~
thesis defence
comprehensive exam
qualifying exam

Rationale: The Department of Physics and Engineering Physics expects the doctoral students to take one of PHYS 812, PHYS 873 and PHYS 886 as an assessment of whether the students have sufficient background knowledge to pursue the PhD research in Physics and Engineering Physics discipline. However, when we admit students, there have been cases that students already took equivalent courses in their M.Sc. program that would provide the requisite learning outcomes.
By removing the restricted electives, the department will be able to recommend students with sufficient background preparation to take a course more relevant to their Ph.D. research project in lieu of the elective. The student's advisory committee should review the content of previous course and confirm the equivalency of the course to our electives before submitting the recommendation to the department as an item of approval by the Graduate Chair (or the Department Head).

Biostatistics - Doctor of Philosophy (Ph.D.)

Admission Requirements

- Master's degree, or equivalent, from a recognized university in a relevant academic discipline
- a cumulative weighted average of at least a 75% (U of S grade system equivalent) in the last two years of study (i.e. coursework required in Master's program)
- Language Proficiency Requirements: Proof of English proficiency may be required for international applicants and for applicants whose first language is not English. See the College of Graduate and Postdoctoral Studies Academic Information and Policies in this Catalogue for more information

Degree Requirements

Students must maintain continuous registration in the 996 course.

Contact: Kelly Clement: Kelly.clement@usask.ca; 306-966-2229

- GPS 960.0
- GPS 961.0 if research involves human subjects
- GPS 962.0 if research involves animal subjects
- a minimum of 15 credit units of coursework, including:
    - 12 credit units from:
        - CHEP 806.3
        - CHEP 810.3 or STAT 834.3
        - PUBH 811.3
        - PUBH 843.3
        - PUBH 846.3
        - STAT 812.3
        - STAT 841.3
        - STAT 848.3
        - STAT 850.3
        - STAT 851.3
    - 3 credit units elective course appropriate to student's thesis research
    - BIOS 990.0
    - BIOS 996.0
    - ~~3 credit units elective course appropriate to student's thesis research~~
- qualifying examination
- comprehensive examination
- thesis defence

Master of Nursing (M.N.): Nurse Practitioner

Degree Requirements

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

- GPS 960.0
- GPS 961.0 if research involves human subjects
- GPS 962.0 if research involves animal subjects
- 33 credit units, including the following: NURS 880.3
- NURS 878.3
- NURS 879.3
- NURS 881.3
- NURS 883.3
- NURS 884.3
- NURS 885.3
- NURS 886.3
- NURS 888.3
- NURS 892.3 or NURS 821.3
- 3 credit unit 800-level Statistics, typically NURS 818.3
- NURS 990.0

Contact: Kelly Clement: Kelly.clement@usask.ca; 306-966-2229

Please note that students receiving a grade less than 60% in any two courses within a graduate program in the College of Nursing will be recommended to be required to discontinue ~~by the College of Graduate and Postdoctoral Studies.~~

For Information**:**

Master of Arts (M.A.) Psychology - Cognition and Neuroscience

The M.A. is not normally awarded. Students enroll in M.A. for one year and then transfer to Ph.D

Degree Requirements
Students must maintain continuous registration in the 994 course.

- GPS 960.0
- GPS 961.0 if research involves human subjects
- GPS 962.0 if research involves animal subjects
- a minimum of ~~15~~ 12 credit units, including~~:~~ PSY 805.3
- ~~a minimum 12~~ 9 ~~credit units of electives~~
- PSY 900.0 (×2)
- PSY 994.0

Doctor of Philosophy (Ph.D.) Psychology - Cognition and Neuroscience- Non-Direct

The Cognition and Neuroscience Graduate Program is designed for students who wish to focus primarily on basic research and theoretical issues. Our objective is to train highly-qualified scientists for basic psychological research in university, hospital, community, industry, or government settings. CGNS offers two areas of specialization: Behavioural Neuroscience and Cognitive Science.

Degree Requirements
Students must maintain continuous registration in the 996 course.

- GPS 960.0
- GPS 961.0 if research involves human subjects
- GPS 962.0 if research involves animals subjects
- a minimum of 6 credit units, including~~: PSY 996.0~~ PSY 805.3 or PSY 807.3
- ~~PSY 805.3 or PSY 807.3~~
- 3 credit units chose in consultation with the Department of Psychology
- PSY 900.0 (×3)
- qualifying exam
- comprehensive exams

Doctor of Philosophy (Ph.D.) Psychology - Cognition and Neuroscience - Direct Entry

Degree Requirements
Students must maintain continuous registration in the 996 course.

- At least 9 credit units of course work at the graduate level must be successfully completed in the first year of the program.

Contact: Kelly Clement: Kelly.clement@usask.ca; 306-966-2229

- Within the first year of the program, successfully complete a Ph.D. Qualifying Examination that is at least as rigorous as the defence for a Master's thesis in the program area.
- GPS 960.0
- GPS 961.0 if research involves human subjects
- GPS 962.0 if research involves animals subjects
- a minimum of ~~21~~ 18 credit units at the 800-level, including: PSY 805.3 or PSY 807.3
- PSY 900.0 (×~~43~~)
- PSY 996.0
- Pass a comprehensive examination, after completing the required course work, and prior to focusing on the research and doctoral thesis.
- Write and successfully defend a thesis based on original investigation.

Transfer from Master's to Ph.D. - Cognition and Neuroscience

Degree Requirements
Students must maintain continuous registration in the 996 course.

- GPS 960.0
- GPS 961.0 if research involves human subjects
- GPS 962.0 if research involves animal subjects
- A minimum of ~~21~~ 18 credit units at the 800-level including: PSY 805.3 or PSY 807.3
- ~~18~~ 15 credit units chosen in consultation with the Advisory Committee
- PSY 900.0 (x3)
- PSY 996.0
- comprehensive exam
- thesis defence

Contact: Kelly Clement: Kelly.clement@usask.ca; 306-966-2229