



## Academic Programs Committee of Council

### University Course Challenge

**Scheduled posting: February, 2016**

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 changes to courses which affect another college.

**Contents include submissions for approval and information from the following colleges:**

College of Arts & Science  
College of Education  
College of Engineering  
College of Graduate Studies & Research  
Edwards School of Business

**Approval:**      Date of circulation: February 16, 2016  
                            Date of effective approval if no challenge received: March 2, 2016

**Next scheduled posting:**

The next scheduled Challenge document posting will be March 16, 2016, with a submission deadline of **March 14, 2016**. Urgent items can be posted on request.

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

## **University Course Challenge – February 2016**

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 approval.

### **DIVISION OF HUMANITIES AND FINE ARTS**

#### **New course(s):**

##### **INTS 103.3 Writing for Academic Success**

1/2 (3L) The purpose of this course is to help students become stronger writers. To the end of sculpting effective essays, the course will teach students the principles of good reading; essay structure; editing and revision; and the effective use of rhetoric. The course proceeds upon the premise that clear writing is rooted in sound grammar, and that even analysis cannot properly proceed without this basis. For this reason, the course will necessarily include instruction in grammar.

Note: Students are encouraged to take this course in their first year to maximize the opportunity to increase success in later courses. However, it may be taken as an elective requirement at any time.

Instructor(s): Sarah Powrie, Cynthia Wallace, Celene Sidloski, Wendy Roy, Liv Marken

Rationale: In the past decade or so, but particularly in the last 5 years, professors from all writing-related disciplines have increasingly reported that their first-year students struggle with writing-based assignments. Aside from serious deficiencies in the comprehension and analysis of primary texts, let alone secondary criticism, students are increasingly unable to write sound sentences and paragraphs, and to construct logical, supportable arguments. In addition, many students report almost complete unfamiliarity with the basic nomenclature of grammar, making diagnosis and correction of errors especially difficult. Students also informally report that they recognize these deficiencies and wish that they had had more formal instruction in grammar and writing.

St. Thomas More College has been offering some version of this proposed course in a non-credit form for over 15 years. Its most recent inception, *Writing for Academic Success*, has proven very valuable to students from many backgrounds, disciplines, and levels. Students taking the course have often reported a full grade-level improvement in their writing-intensive classes. An average class from the past few years includes students from first-year to graduate students; students have primarily been from the humanities and social sciences, but graduate students in the sciences have also taken the course. The diversity of this range has been a very positive element within the class.

### **English**

#### **New course(s):**

##### **ENG 120.3 Introduction to Creative Writing**

1/2 (1.5L-1.5S) This course introduces students to strategies for writing original fiction, poetry, and creative non-fiction. The course will include both lectures and writing workshops in which students critique original writing by class members. Visiting authors may be invited into the classroom, and students will be encouraged to attend literary events in the community. By the end of the course, students will have a portfolio of polished writing in three genres.

Instructor(s): Jeanette Lynes, Barbara Langhorst

Rationale: The English department, along with the coordinator of the MFA in writing program and the writing instructors at St. Peter's College, have had requests from students for a first-year introduction to creative writing that would allow them to learn basic skills for writing original poems, stories, and personal essays. Such an entry-level course would also allow students to develop a portfolio of creative writing that might help them to gain entry to an upper-year course such as ENG 366. Teaching the course as half large lectures, and half writing workshops, potentially led by graduate students in the MFA in Writing or in English, will provide undergraduate students with hands-on experience of workshopping their writing and will give graduate students in the MFA program a chance to learn teaching skills.

In the past, students at the U of S have always been limited to taking 6-cu of 100-level English classes for credit. This limitation will still apply to ENG 110, 111, 112, 113, and 114. However, now students will be able to take ENG 120 as an additional for-credit class. ENG 120 will also be eligible to fulfill any non-specific requirement for a 100-level English class that currently exists in any program.

### **ENG 340.3 Eighteenth Century British Literature**

1/2 (3L) A time of rebels and reactionaries, Enlightenment Britain (1660-1800) saw writers respond to dramatic social change. In this brief but grand tour of literary modes and genres, students will encounter many of the ideas that underpin contemporary Eurocentric culture. The course will include works of satire and sentiment, amatory fiction and conduct books, political poetry, slave narratives, plays of wit, and the first periodicals. Featured authors may include Behn, Swift, Pope, Richardson, Fielding, Burney, and Johnson.

Prerequisite(s) or Co-requisite(s): 3 credit units of 200-level English.

Note: Students with credit for ENG 336 and/or ENG 337 may not take this course for credit.

Instructor(s): Kathleen James-Cavan, Peter Hynes

Rationale: This course is part of ongoing curriculum renewal in the Department of English. Given staffing and enrolment limitations, we are often unable to offer both ENG 336 Restoration and 18th Century Literature to 1740 and ENG 337 18th Century Literature after 1740. However, it is still essential that students have the ability to study eighteenth-century British literature, since it is foundational to current literary studies. We have therefore decided to offer only one eighteenth-century course, ENG 340, that includes the essential course content from ENG 336 and ENG 337.

### **Course deletion(s):**

#### **ENG 336.3 Restoration and 18<sup>th</sup> Century Literature to 1740**

#### **ENG 337.3 18<sup>th</sup> Century Literature after 1740**

Rationale: Given staffing and enrolment limitations, the Department of English is often unable to offer both ENG 336 and ENG 337. However, it is still essential that students have the ability to study eighteenth-century British literature, since it is foundational to current literary studies. We have therefore decided to offer only one eighteenth-century course, the newly proposed ENG 337, that includes the essential course content from ENG 336 and ENG 337.

## **History**

### **New course(s):**

#### **HIST 203.3 Ancient Greece Politics Society and Culture**

1/2 (3L) This course surveys the political, cultural and social history of ancient Greece from the Bronze Age (ca. 3000 BCE) to the beginnings of Roman influence in the Greek world in the late Hellenistic period (ca 200 BCE).

Prerequisite(s): 30 credit units of University courses

Note: Students with credit for HIST 200.6 may not take this course for credit.

Instructor(s): Angela Kalinowski

Rationale: HIST 203.3 will replace HIST 200.6. HIST 203.3 will cover topics in the same depth as HIST 200.6, but fewer topics overall.

#### **HIST 370.3 Violence Smuggling and Vice Borderlands and the Gaps of Power**

1/2 (1.5L-1.5S) This course introduces students to the history of borderlands by analyzing what borderlands are, how they form, why they matter, and how they change our conceptions of history. We will study the historic formation of the borderlands of North America paying close attention to the efforts that Canada, Britain, the United States, and Mexico expended to demarcate their national boundaries and the slippages that occurred when nations have tried to force binary categories, such as nationalities, onto historically mobile and interconnected populations. In doing so, we will study inter-tribal borderlands, borderlands between Natives and newcomers, and the creation of borders between European powers. We will assess the impact and contributions that communities such as the Cree, Sioux, Nez Perce, Métis, Comanche, Iroquois and Coast Salish made to the demarcation, enforcement, and placement of European boundaries. Finally, we will compare the borderlands of North America to borderlands across the world, utilizing case studies from Europe, Thailand, Indonesia, India, Bangladesh, and Morocco. Throughout this process, we will focus on contentious issues such as violence, warfare, smuggling, prostitution, nation building, abductions, and racial exclusion.

Prerequisite(s): 3 credit units HIST at the 200-level.

Instructor(s): Benjamin Hoy

Rationale: This course expands offerings that deal with US, Canadian, Indigenous, and Great Plains History. It represents key aspects of my research program and provides the department with more breadth of offerings on Aboriginal History.

**Course deletion(s):**

**HIST 200.6 Ancient Greece**

Rationale: The Department of History implemented the deletion of all 6 cu courses in the Department to increase student and instructor flexibility. In place of this course, a 3 credit unit Greek History course (HIST 203.3) has been developed.

**Religion & Culture**

**New course(s):**

**RLST 377.3 Living Community Solidarity and Social Change**

1/2 (3L) This course offers students an academic framework for grounded reflection on religious studies concepts covered in the prerequisite course. It will be centred on an eight- or twelve-week placement with the St. Thomas More College Intercordia Program in a cross-cultural context. Students will apply concepts from RLST 277, which explored the nexus amongst religion, community, solidarity and social change.

Prerequisite(s): RLST 277 and written permission of the instructor

Note: Students who have received credit for RLST 398.3: Living Community Solidarity and Social Change may not take this course for credit.

Instructor(s): Chris Hrynkow

Rationale: This course has been offered twice as a special topics course, RLST 398.3, and is now being regularized. It is designed to complement the Intercordia program; students must take a prerequisite course in the winter term and then they will take this course in the summer term alongside their trip to a South American country, where they will complete the community service learning portion of the course. They will then have approximately 6 weeks to complete and submit their final exam.

This course will be added to the list of "Category B" courses in the Religion & Culture programs.

**DIVISION OF SCIENCE**

**Biochemistry & Biotechnology**

**Minor program revisions:**

**B.Sc. Honours and Four-year in Biochemistry & Biotechnology**

Remove BIOL 224.3/BMSC 224.3 as an option to PHSI 208.6.

**Bachelor of Science Honours (B.Sc. Honours) - Biochemistry & Biotechnology**  
**C6 Major Requirement (66-69 credit units)**

- [BMSC 200.3](#)
- [BMSC 210.3](#)
- [BMSC 220.3](#)
- [BMSC 230.3](#)
- [BMSC 240.3](#)
- ~~[BIOL 224.3/BMSC 224.3](#)~~ or [PHSI 208.6](#)
- [BIOC 300.3](#)
- [BIOC 310.3](#)
- [BIOC 311.3](#) or [MCIM 391.3](#)
- [BIOC 412.3](#)
- [BIOC 436.3](#)
- [BIOC 489.6](#)
- [BIOC 490.0](#)

- [BINF 200.3](#) or [BINF 210.3](#)
- [BIOL 226.3](#)
- [CHEM 250.3](#)
- [PHIL 236.3](#) (may be used in distribution requirement C5)

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

- No additional changes in C6.

### C7 Electives Requirement (12-15 credit units)

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

### Suggested Sequence of Courses

#### Year 1

#### Year 2

Students entering second year must consult with a faculty advisor in the Biochemistry Department.

- [BMSC 210.3](#)
- [BMSC 220.3](#)
- [BMSC 230.3](#)
- [BMSC 240.3](#)
- ~~[BIOL 224.3](#)~~/~~[BMSC 224.3](#)~~ [PHSI 208.6](#)
- [CHEM 250.3](#)
- [BINF 200.3](#) or [BINF 210.3](#)
- [PHIL 236.3](#)

Other program electives

#### Year 3

#### Year 4

### Bachelor of Science Four-year (B.Sc. Four-year) - Biochemistry & Biotechnology

#### C6 Major Requirement (60-63 credit units)

- [BMSC 200.3](#)
- [BMSC 210.3](#)
- [BMSC 220.3](#)
- [BMSC 230.3](#)
- [BMSC 240.3](#)
- ~~[BIOL 224.3](#)~~/~~[BMSC 224.3](#)~~ or [PHSI 208.6](#)
- [BIOC 300.3](#)
- [BIOC 310.3](#)
- [BIOC 311.3](#) or [MCIM 391.3](#)
- [BIOC 412.3](#)
- [BIOC 436.3](#)
- [BIOC 490.0](#)
- [BINF 200.3](#) or [BINF 210.3](#)
- [BIOL 226.3](#)
- [CHEM 250.3](#)
- [PHIL 236.3](#) (may be used in distribution requirement C5)

Choose **3-6 credit units** from the following:

- No additional changes in C6.

## C7 Electives Requirement (18-21 credit units)

Students should consult a program advisor to confirm their electives requirements.

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

## Suggested Sequence of Courses

### Year 1

### Year 2

Students entering second year must consult with a faculty advisor in the Biochemistry Department.

- [BMSC 210.3](#)
- [BMSC 220.3](#)
- [BMSC 230.3](#)
- [BMSC 240.3](#)
- [BIOL-224.3/BMSC-224.3](#) [PHSI 208.6](#)
- [CHEM 250.3](#)
- [BINF 200.3](#) or [BINF 210.3](#)
- [PHIL 236.3](#)
- Other program electives

### Year 3

### Year 4

Rationale: The most important justification for this proposal is to ensure that all of the students in a biomedical sciences program enter the third year with a broad and common background in physiology. When we first created the common two-year program in the biomedical sciences and agreed that BIOL/BMSC 224 would be the physiology component in the second year, Physiology and Pharmacology had to re-design the third year courses to ensure that the content covered a range of topics that are either not covered in BIOL/BMSC 224 or not covered in what we consider to be sufficient depth. We continued to offer PHSI 208 because that course was a required course in the Colleges of Nursing and Pharmacy and Nutrition, but restricted enrollment to students in those Colleges. A couple of years ago, however, Physiology was asked by the College of Pharmacy and Nutrition and the College of Dentistry to open PHSI 208 to all Arts and Science students so that those Colleges could use PHSI 208 as a prerequisite for entry into their programs. The Biomedical Science Departments agreed at that time to change our program requirements to allow students to take either BIOL/BMSC 224 or PHSI 208 as their introductory physiology course.

Many BMSC students are now choosing to take PHSI 208, presumably because they want to retain the option to apply to Dentistry or Pharmacy and Nutrition, because of their interest in human physiology, or because they think that PHSI 208 will better prepare them for future studies in a health professional college. The fact that we now have two groups of students entering our third year courses with different backgrounds forces us to repeat content covered in PHSI 208. We have received complaints both from students who find one or more third year courses to be repeating content from PHSI 208 and from students who feel that taking only BIOL/BMSC 224 left them at a disadvantage. Having PHSI 208 become the sole physiology component in the BMSC common core will allow us to redesign our third year courses to eliminate repetition and have all students start with a similar strong introduction to physiology. Even though PHSI 208 is not a prerequisite for upper year courses in the MCIM or BIOC programs, this change is being proposed for those programs as well. One of the most important rationales for having a common two years is that it allows students entering the biomedical sciences to get a solid foundation in a range of biomedical disciplines and to use this knowledge to make an informed decision about which of our programs they wish to pursue. Allowing students to choose a physiology course that would prevent them from directly pursuing a degree in PHPY would therefore defeat the purpose of a common two years. Furthermore, the College of Medicine is currently working toward a reorganization of the biomedical programs, and one of the rationales for this reorganization is to ensure that all graduating students will have a solid introduction to the basic biomedical sciences that they would need to pursue a

degree in medicine or other professional health colleges. We think that requiring them to take PHSI 208 is an important step toward this goal.

## **Bioinformatics**

### **Minor course revisions**

#### **BINF 200.3 Introduction to Bioinformatics**

Prerequisite change:

Old prerequisite(s): CMPT 111, BMSC 200.

New prerequisite(s): CMPT 111 or CMPT 141, BMSC 200.

Rationale: CMPT 111 has been deleted. CMPT 141 is appropriate replacement as the prerequisite for this course.

## **Biomedical Science**

### **Course deletion(s):**

#### **BMSC 224.3 Animal Body Systems**

Rationale: In support of the two year common core platform of the Division of Biomedical Science (BMSC) majors, BMSC was added to the title of the BIOL 224.3 Animal Body Systems class and the class became known as BMSC 224/BIOL 224. The biomedical sciences (Anatomy, Biochemistry, Microbiology and immunology, Physiology, Pharmacology) submitted a course change this year removing BMSC/BIOL 224 as a requirement of their undergraduate programs and we therefore ask that the BMSC 224 designation be removed from the course. The BIOL 224.3 Animal Body Systems class will still continue to be offered by the Biology Department, but the Physiology and Pharmacology Departments will no longer play a role in offering the class.

## **Biotechnology, Microbiology & Immunology**

### **Minor program revisions:**

#### **B.Sc. Honours and Four-year in Biotechnology, Microbiology & Immunology**

Remove BIOL 224.3/BMSC 224.3 as an option to PHSI 208.6.

### **Bachelor of Science Honours (B.Sc. Honours) - Biotechnology, Microbiology & Immunology** **C6 Major Requirement (72-75 credit units)**

- ~~BIOL 224.3/BMSC 224.3~~ or [PHSI 208.6](#)
- [BMSC 200.3](#)
- [BMSC 210.3](#)
- [BMSC 220.3](#)
- [BMSC 230.3](#)
- [BMSC 240.3](#)
- [MCIM 321.3](#)
- [MCIM 326.3](#)
- [MCIM 390.3](#)
- [MCIM 391.3](#) or [BIOC 311.3](#)
- [MCIM 416.3](#)
- [MCIM 417.3](#)
- [MCIM 423.3](#)
- [MCIM 487.3](#)
- [PHIL 236.3](#) (may be used in distribution requirement C5)

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

- No additional changes in C6.

### C7 Electives Requirement (6-9 credit units)

#### **Required Cognate Course**

- [CHEM 250.3](#)

#### **Open Electives**

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 Honours program, of which at least 66 must be at the 200-level or higher.

### Bachelor of Science Four-year (B.Sc. Four-year) - Biotechnology, Microbiology & Immunology C6 Major Requirement (63-66 credit units)

- ~~[BIOL 224.3/BMSC 224.3](#)~~ or [PHSI 208.6](#)
- [BMSC 200.3](#)
- [BMSC 210.3](#)
- [BMSC 220.3](#)
- [BMSC 230.3](#)
- [BMSC 240.3](#)
- [MCIM 321.3](#)
- [MCIM 326.3](#)
- [MCIM 390.3](#)
- [MCIM 391.3](#) or [BIOC 311.3](#)
- [MCIM 416.3](#)
- [MCIM 417.3](#)
- [MCIM 423.3](#)
- [MCIM 487.3](#)
- [PHIL 236.3](#) (may be used in distribution requirement C5)

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

- No additional changes in C6.

### C7 Electives Requirement (15-18 credit units)

#### **Required Cognate Course**

- [CHEM 250.3](#)

#### **Open Electives**

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

Rationale: See Biochemistry & Biotechnology above.

### Physics

#### **Minor course revisions:**

##### **EP 214.3 Analog Signals and Systems**

Prerequisite change:

Old prerequisite(s): EE 202

New prerequisite(s): EP 202 or EE 202

Rationale: EE 202 has been relabelled to EP 202.

##### **EP 228.3 Computer Tools for Engineering Physics**



Prerequisite change:

Old prerequisite(s): (CMPT 111 or CMPT 116) and (GE 125 or PHYS 117 or PHYS 125)

New prerequisite(s): CMPT 116 and (GE 125 or PHYS 117 or PHYS 125).

No change to "Prerequisites or Co-Requisites".

Rationale: CMPT 111.3 will no longer be offered starting in September 2016. (CMPT 111 and 116 are equivalent, so students who previously took CMPT 111 will still be able to register for this course.)

### **EP 413.3 Instrumentation and Design**

Prerequisite change:

Old prerequisite(s): EP 313

New prerequisite(s): EE 321 or EP 313, and CMPT 116

Rationale: EP 313 has been relabelled to EE 321. CMPT 116 should always have been a prerequisite for this course, but was missing in error.

## **Toxicology**

### **Minor program revisions**

#### **B.Sc. Honours and Four-year and Minor in Toxicology**

Honours and Four-year: Add PHSI 208.6 as an option to BIOL 224.3, the latter of which will be paired with BIOL 317.3. Remove option to take PHPY 301.3.

Minor: Add PHSI 208.6 as an option in the program, and increase overall credit units to 21.

### **Bachelor of Science Four-year (B.Sc. Four-year) - Toxicology**

### **C6 Major Requirement (57 credit units)**

Note: Students are strongly encouraged to consult the undergraduate academic advisor in Toxicology on course selection early in their program, to receive assistance in choosing an area of focus.

- [BIOL 226.3](#) (formerly BIOL 211) or [ANBI 420.3](#)
- [BIOL 224.3/BMSC 224.3](#) and [BIOL 317.3](#); or [PHSI 208.6](#)
- ~~[BIOL 317.3](#) or [PHPY 301.3](#)~~
- [BIOL 228.3](#) (formerly BIOL 253) or [PLSC 213.3](#)
- [BMSC 220.3](#)
- [BMSC 200.3](#) (formerly [BIOC 200.3](#))
- [BMSC 240.3](#) or [BIOL 222.3](#) or [BIOL 373.3](#)
- [CHEM 250.3](#)
- [CHEM 375.3](#)
- [TOX 300.3](#) (formerly VBMS 300)
- [TOX 301.3](#)
- [TOX 400.3](#)
- [TOX 490.0](#)

Choose **21 credit units** from the following:

- No additional changes.

### **Bachelor of Science Honours (B.Sc. Honours) - Toxicology**

### **C6 Major Requirement (57 credit units)**

Note: Students are strongly encouraged to consult the undergraduate academic advisor in Toxicology on course selection early in their program, to receive assistance in choosing an area of focus.

- [BIOL 226.3](#) (formerly BIOL 211) or [ANBI 420.3](#)
- [BIOL 224.3/BMSC 224.3](#) and [BIOL 317.3](#); or [PHSI 208.6](#)
- ~~[BIOL 317.3](#) or [PHPY 301.3](#)~~
- [BIOL 228.3](#) (formerly BIOL 253) or [PLSC 213.3](#)
- [BMSC 220.3](#)
- [BMSC 200.3](#) (formerly [BIOC 200.3](#))
- [BMSC 240.3](#) or [BIOL 222.3](#) or [BIOL 373.3](#)
- [CHEM 250.3](#)
- [CHEM 375.3](#)
- [TOX 300.3](#) (formerly VBMS 300)
- [TOX 301.3](#)
- [TOX 400.3](#)
- [TOX 490.0](#)

Choose **21 credit units** from the following:

- No additional changes.

### Suggested Sequence of Courses

#### Year 1

#### Year 2

- [BIOL 224.3/BMSC 224.3](#) or [PHSI 208.6](#)
- [BMSC 220.3](#)
- [BMSC 200.3](#) (formerly [BIOC 200.3](#))
- [TOX 200.3](#)

6 credit units of Physics courses

3 credit units from [ANBI 420.3](#), [BIOL 226.3](#), or [BIOL 228.3](#) (or [PLSC 213.3](#))

3 credit units to fulfill Program Type C requirements

Electives to make a total of 30 credit units

#### Year 3

- [CHEM 375.3](#)
- [TOX 300.3](#) (formerly VBMS 300)
- [TOX 301.3](#)
- [BIOL 317.3](#) or ~~[PHPY 301.3](#)~~ (if [BIOL 224.3/BMSC 224.3](#) was taken in Year 2)

3 credit units from the toxicology list

3 credit units from [BIOL 222.3](#), [BIOL 373.3](#), or [BMSC 240.3](#)

Remaining 3 credit units from [BIOL 226.3](#) or [BIOL 228.3](#) (or [PLSC 213.3](#))

6 credit units to fulfill Program Type C requirements

Electives to make a total of 30 credit units

#### Year 4

### Toxicology - Minor

### Requirements (18 21 credit units)

- [TOX 300.3](#)
- [TOX 301.3](#)

### **Restricted Electives**

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

- [TOX 302.3](#)
- [TOX 310.3](#)
- [TOX 320.3](#)
- [TOX 321.3](#)
- [TOX 400.3](#)
- [TOX 402.3](#)
- [TOX 403.3](#)
- [TOX 412.3](#)
- [TOX 461.3](#)

Choose **6 9 credit units** from the following:

- [BIOL 224.3/BMSC 224.3](#) or [PHSI 208.6](#)
- [BIOL 312.3](#)
- [BIOL 412.3](#)
- [BIOL 475.3](#)
- [CHEM 375.3](#)
- [GEOG 351.3](#)
- [GEOG 386.3](#)
- [EVSC 420.3](#)
- [EVSC 421.3](#)
- [TOX 200.3](#)
- [TOX 302.3](#)
- [TOX 310.3](#)
- [TOX 320.3](#)
- [TOX 321.3](#)
- [TOX 400.3](#)
- [TOX 402.3](#)
- [TOX 403.3](#)
- [TOX 412.3](#)
- [TOX 461.3](#)

Rationale: Students choosing to major in Toxicology are required to take at least 6 credit units of physiology. Given the recent changes in access to PHSI 208.6, and the proposed prerequisite revisions for PHPY 301.3, the above changes provide students two options for meeting this requirement, and prevent any student from getting "stuck" as a result of taking either introductory course first. PHSI 208.6 is added to the Minor in Toxicology for the same reason, and the overall credit units are increased to ensure that students must take at least 15 credit units of courses in other areas (not physiology). The requirement of 21 credit units for a Minor is not unusual in Arts & Science, and requirements greater than 18 credit units is especially common for interdisciplinary areas of study.

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### **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.

## **DIVISION OF HUMANITIES AND FINE ARTS**

### **Music Education**

#### **Minor program revision**

Correction from January 2016 UCC: Students may not use EMUS, MUAP, or MUS courses to fulfill the G1 Academic Courses requirement, *except MUS 111*, as students are required to take a minimum number of credit units outside of their major.

[Bachelor of Music \(Music Education\) \(B.Mus.\(Mus.Ed.\)\) - Elementary/Middle Years](#)

[Bachelor of Music Honours \(Music Education\) \(B.Mus.\(Mus.Ed.\)\) - Elementary/Middle Years](#)

#### **G1 Academic Courses (33 credit units)**

- [KIN 121.3](#)
- [INDG 107.3](#)

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

- [100-Level ENG Courses](#)

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

- ...

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

**+Science**

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

- any course approved for credit in Arts & Science, excluding EMUS, MUAP or MUS courses

**Please note:** [MUS 111.3](#) is acceptable to fulfill this requirement.

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

...

[Bachelor of Music \(Music Education\) \(B.Mus.\(Mus.Ed.\)\) - Secondary](#)

[Bachelor of Music Honours \(Music Education\) \(B.Mus.\(Mus.Ed.\)\) - Secondary](#)

#### **G1 Academic Courses (30 credit units)**

- [INDG 107.3](#)

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

- [100-Level ENG Courses](#)

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

**[+Science](#)**

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

- any course approved for credit in Arts & Science, excluding EMUS, MUAP or MUS courses

**Please note:** [MUS 111.3](#) is acceptable to fulfill this requirement.

Choose **15 Credit Units** from a subject that is chosen to be Teaching Area II.

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## **DIVISION OF SCIENCE**

### **Chemistry**

#### **Minor course revisions**

#### **CHEM 377.3 Industrial Chemistry**

Prerequisite change:

Old prerequisite(s): CHEM 115 and MATH 110

New prerequisite(s): CHEM 115 and (MATH 110 or MATH 123 or MATH 125)

Rationale: MATH 123: This is the first calculus class for students in the College of Engineering. It is an acceptable alternative prerequisite for engineering students who wish to take CHEM 377. MATH 125: Although this course does not have the rigour of MATH 110, it supplies sufficient background for CHEM 377.

## **DIVISION OF SOCIAL SCIENCES**

### **Economics**

#### **Minor course revisions**

#### **ECON 305.3 Quantitative Methods in Economics I**

Change to Note:

Old Note: Students with credit for a course in linear algebra may not take this course for credit.

New Note: none

Rationale: This course previously included a significant amount of linear algebra, but has shifted to a greater focus on methods and applications specific to Economics. Given this shift, while students will still be allowed to use Math 264 or Math 266 to meet program requirements in lieu of Econ 305 (Honours program), the Department no longer wishes to preclude students for taking both. Since we encourage our best students to take classes in the Department of Mathematics & Statistics, in this way we are no longer forcing them to take Econ 305 first and linear algebra later; in the future they will be able to take calculus first and Econ 305 later if this is more convenient.

#### **ECON 306.3 Quantitative Methods in Economics II**

Change to Note:

Old Note: Students with credit for Econ 304 or a course in the calculus of multiple variables may not take this course for credit

New Note: none

Rationale: Although multivariable calculus is an integral part of the course, the course is fundamentally about optimization in Economics. We do not want to preclude students with a knowledge of calculus for studying the ways in which it is used in our discipline. And vice versa, since we encourage our best students to take classes in the Department of Mathematics & Statistics, in this way we are not forcing them to take Econ 306 first and multivariable calculus later; in the future they will be able to take calculus first and Econ 306 later if this is more convenient. Math 225 will still be accepted to meet program requirements, in lieu of Econ 306, (Honours program) but we do not want to preclude students for taking both.

## **Psychology**

### **Minor course revisions**

#### **PSY 315.3 Advanced Development I Social and Emotional**

#### **PSY 317.3 Cognitive Development I**

Prerequisite change:

Old prerequisite(s): 12 credit units of 200-level Psychology including PSY 233 and 235 and one of PSY 213, 214 or 216

New prerequisite(s): 12 credit units of 200-level Psychology including PSY 233, and (PSY 235 or HLST 210), and one of PSY 213, 214 or 216

Rationale: HLST 210 is a methods course that is an appropriate substitute for PSY 235 as a prerequisite for these courses.

#### **PSY 323.3 Qualitative Study of Lives and Social Practices**

Prerequisite change:

Old prerequisite(s): PSY 233 and 235; and 3 credit units from Group 1; and an additional 9 credit units of 200-level Psychology.

New prerequisite(s): PSY 233; and (PSY 235 or HLST 210); and 3 credit units from Group 1; and an additional 9 credit units of 200-level Psychology.

Rationale: HLST 210 is a methods course that is an appropriate substitute for PSY 235 as a prerequisite for this course.

#### **PSY 325.3 Research Methods in Social Psychology**

Prerequisite change:

Old prerequisite(s): 12 credit units of 200-level psychology, including PSY 233 and 235 and one of PSY 225 or 226.

New prerequisite(s): 12 credit units of 200-level psychology, including PSY 233, and (PSY 235 or HLST 210), and one of PSY 225 or 226.

Rationale: HLST 210 is a methods course that is an appropriate substitute for PSY 235 as a prerequisite for this course.

#### **PSY 343.3 Laboratory in Behavioural Neuroscience**

#### **PSY 347.3 Advanced Human Neuropsychology**

Prerequisite change:

Old prerequisite(s): 12 credit units of 200-level psychology, including PSY 233 and 235 and one of PSY 242 or 246.

New prerequisite(s): 12 credit units of 200-level psychology, including PSY 233, and (PSY 235 or HLST 210), and one of PSY 242 or 246.

Rationale: HLST 210 is a methods course that is an appropriate substitute for PSY 235 as a prerequisite for these courses.

#### **PSY 355.3 Research in Advanced Cognitive Science**

Prerequisite change:

Old prerequisite(s): 12 credit units of 200-level psychology, including PSY 233 and 235 and one of PSY 252, 253, 255, or 256.

New prerequisite(s): 12 credit units of 200-level psychology, including PSY 233, and (PSY 235 or HLST 210), and one of PSY 252, 253, 255, or 256.

Rationale: HLST 210 is a methods course that is an appropriate substitute for PSY 235 as a prerequisite for this course.

### **PSY 357.3 Clinical and Counselling Psychology**

New course number: **PSY 257.3**

New course description: Review of the relevant topics in clinical and counselling psychology including psycho diagnostic testing, and the major approaches to therapeutic change.

Prerequisite change:

Old prerequisite(s): PSY 235 and one of PSY 222 or PSY 223

New prerequisite(s): PSY 121

Rationale: PSY 257 was renumbered to PSY 357 in May 2014, but was still offered as a lecture course, rather than a practicum course like the other 300-level PSY courses. Given that students are usually only able to gain admittance to a limited number of 300-level PSY courses, students prefer the hands-on courses, and therefore this course failed to attract enrolment. Moving this course, and its content, back to the 200-level will encourage more students to take it without limiting their access to practicum courses.

### **PSY 448.3 Advanced Seminar in Neuroscience**

Prerequisite change:

Old prerequisite(s): 6 credit units from PSY 242, 246, 343, 347

New prerequisite(s): 6 credit units from PSY 242, 243, 246, 343, 347

Rationale: PSY 243 was accidentally omitted in the listing of prerequisites.

## **Regional & Urban Planning**

### **Minor course revisions**

#### **PLAN 329.3 Integrated Water Resource Planning**

Prerequisite change:

Old prerequisite(s): 6 credit units in Geography, or permission of the instructor.

New prerequisite(s): GEOG 240, or GEOG 280, or permission of the instructor

Rationale: Students are best prepared for the course following one of the identified courses, but permission may be granted to students with adequate, alternate preparation from related courses.

## **College of Education, Item for Information**

### Indian Teacher Education Program (ITEP)

Please note the removal of the following requirement from Years 2 and 3:

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

- 100-Level, 200-Level, 300-Level or 400-Level EADM Courses
- 100-Level, 200-Level, 300-Level or 400-Level ECUR Courses
- 100-Level, 200-Level, 300-Level or 400-Level EDUC Courses
- 100-Level, 200-Level, 300-Level or 400-Level EFDT Courses
- 100-Level, 200-Level, 300-Level or 400-Level EMUS Courses
- 100-Level, 200-Level, 300-Level or 400-Level EPSE Courses
- 100-Level, 200-Level, 300-Level or 400-Level ETAD Courses

The complete 2016-17 program is now as follows:

### **Indian Teacher Education Program (ITEP)**

#### **Requirements Elementary/Middle Years Program:**

#### **Year 1 – 27 credit units**

- ENG 110.6 or choose two of ENG 111.3, ENG 112.3, ENG 113.3, or ENG 114.3

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

Arts Education courses from Elementary Teaching Areas 1 or 2

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

Science courses from Elementary Teaching Areas 1 or 2

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

Open Electives 100-400 level (must be compiled using 3 or 6 credit unit courses)

#### **Choose 3 Indigenous (junior level) credit units from the following:**

- COMM 347.3
- SOC 203.3
- SOC 219.3
- SOC 320.3
- SOC 341.3
- 100-Level, 200-Level, 300-Level or 400-Level INDG Courses

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



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

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

- EFDT 301.3

**Year 2 – 27 credit units**

- EPSE 302.3
- EFDT 313.3
- EDST 321.3

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

- ECUR 311.3
- 100-Level, 200-Level, 300-Level or 400-Level MATH Courses
- 100-Level, 200-Level, 300-Level or 400-Level STAT Courses

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

KIN 121.3 or KIN 122.3 or KIN 146.3

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

Teaching Area 1

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

Teaching Area 2

**Year 3 – 36 credit units**

- ECUR 309.3
- ECUR 310.3
- ECUR 316.3
- ECUR 322.3
- ECUR 382.3
- EDST 322.3

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

Teaching Area 1

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

## Teaching Area 2

### **Year 4 – 30 credit units**

- one of EADM 411.3, or ECUR 411.3, or EFDT 411.3, or EPSE 411.3
- EADM 303.3
- EPSE 390.3
- EXPR 422.15

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

- 100-Level, 200-Level, 300-Level or 400-Level EADM Courses
- 100-Level, 200-Level, 300-Level or 400-Level ECUR Courses
- 100-Level, 200-Level, 300-Level or 400-Level EDUC Courses
- 100-Level, 200-Level, 300-Level or 400-Level EFDT Courses
- 100-Level, 200-Level, 300-Level or 400-Level EMUS Courses
- 100-Level, 200-Level, 300-Level or 400-Level EPSE Courses

## **Edwards School of Business – February, 2016 University Course Challenge Submission**

The following curricular changes have been approved by the college and are now being posted to University Course Challenge for approval:

### **Name Change to Business Co-operative Education Program, as follows:**

Business Co-operative Program should be changed to:

Edwards Co-operative Education Option

### **Rationale:**

The Business Co-operative Program was created prior to the name change to Edwards for the College. In order to continue to brand the program as Edwards we would like the name to reflect the College name. The change to option from program reflects the appropriate nomenclature for the University.

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**INTEROFFICE MEMORANDUM**

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**TO:** MS. SEANINE WARRINGTON  
COORDINATOR OF ACADEMIC PROGRAMS & CATALOGUE, SESD

**FROM:** MR. CHRISTOPHER MARTIN  
ACADEMIC PROGRAMS COORDINATOR, COLLEGE OF ENGINEERING

**SUBJECT:** **UNIVERSITY COURSE CHALLENGE – FEBRUARY 2016**

**DATE:** FEBRUARY 11, 2016

**CC:** DR. AARON PHOENIX  
ASSOCIATE DEAN ACADEMIC, COLLEGE OF ENGINEERING

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Ms. Seanine Warrington:

On behalf of the College of Engineering, I am writing to inform you that the attached curricular revisions were approved by our college-level Undergraduate Academic Programs Committee and are now submitted to the University Course Challenge for review and approval.

Should any members of the university community have any questions or concerns regarding the proposed changes, please do not hesitate to redirect such inquiries to me directly.

Sincerely,

Christopher Martin, B.B.A.  
Academic Programs Coordinator  
College of Engineering  
Phone: (306) 966-3201

### Prerequisite Change

Motion: To change the prerequisite of GEOE 380: Mine Ventilation from "(CE 225 or ME 215) and GEOE 377" to "prerequisite: (CE 225 or ME 215 or CHE 220) and prerequisite/co-requisite: (GEOE 315 or GEOE 377)", effective 201609.

*Rationale: The mine ventilation course does not require detailed information on mining, a general understanding of a mining environment is sufficient. This background is provided within the rock mechanics course, as well as the mine intro course.*

Motion: To change the prerequisite of ME 330.3: Manufacturing Processes from "Prerequisite(s): GE 213; Prerequisite(s) or Corequisite(s): ME 324" to "Prerequisite(s): GE 213, ME 214", effective 201609.

*Rationale: Last year, ME 330 was moved from Term 2 to Term 1 and became a pre-requisite for the third-year design class, ME 329. A review of the ME 214, ME 324, ME 330, and ME 329 course content has shown that ME 214 Introduction to Materials and Manufacturing is now a suitable pre-requisite for ME 330 instead of ME 324 Engineering Materials. GE 213 Mechanics of Materials will remain a pre-requisite for ME 330.*

### Term Descriptor Change

Motion: To change the term descriptor of GEOE 377: Introduction to Mining and Mineral Processing from 1(1.5T) to 1(3L-3P).

*Rationale: First, the current list is a typo. It should be 1(3L-3P). Second, the rationale for the change to 3L-3P is as follows. The class requires 3 computer labs, 1 tutorial and 1 time-slot for a midterm exam, for the Mining Engineering portion. The mineral processing portion requires 3 lab periods. This is a total of 8 time slots. Since only 10 or 11 sessions are available for Monday labs, a lab/tutorial session is required every week.*

## College of Graduate Studies and Research – items for information

The following new course proposal was approved in March, 2015 (University Course Challenge); however due to unforeseen staffing changes in the college, cannot be created:

### Road Safety Engineering

CE 8356 Road Safety Engineering course is designed to provide graduate students with a strong theoretical and methodological foundation for road safety analysis. This course will focus on the analysis of road accident data, the evaluation of safety countermeasures, and the roadway design consistency, etc.

Prerequisites: CE 329 Traffic Engineering I (or equivalent), GE 210 Probability and Statistics (or equivalent), or approval from the Instructor

The college wishes to rescind the original proposal so that the CE 836 course number can be freed up for use in another civil engineering topic.

**The following certificate program modification was approved by the Office of the Provost in January and is now being submitted for information:**

### Professional Skills Certificate

The Graduate Professional Skills Certificate (GPSC) is a comprehensive, non-credit program that develops graduate students' professional skills with a focus on critical thinking, communication and teamwork, management and leadership, entrepreneurship and career development, and ethics. Rich in interactive, experiential, and case-based learning opportunities, this is one of the few such certificates in Canada.

#### Program Requirements

##### Professional Skills Certificate

##### Admission Requirements

- Registration in a graduate program or as a U of S postdoctoral fellow.
- GSR 960.0 – Introduction to Ethics and Integrity (in-class version)
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##### Certificate Requirements

- GSR 984.0 – Thinking Critically: Professional Skills for Global Citizens
- GSR 960.0 – Introduction to Ethics and Integrity (in-class version)
- Experiential learning opportunities (workshops, internships, courses, and other experiences completed to the extent that achievement of learning outcomes in GSR 974 can be demonstrated (mapped to 10 skill domains) with artifacts and a reflective commentary)
- 20 hours of Open Electives in Teaching, Research, or Communication (other elective courses and/or workshops or professional or employment skills, subject to approval)
- GSR 974.0 – Graduate Professional and Employment Skills

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Contact [Kelly.clement@usask.ca](mailto:Kelly.clement@usask.ca)