

**UNIVERSITY OF WATERLOO  
SENATE GRADUATE & RESEARCH COUNCIL  
NOTICE OF MEETING**

DATE: Monday 12 April 2021  
TIME: 10:30 a.m. – 12:00 noon  
PLACE: Microsoft Teams

Chair – C. Dean

***Reminder:** chat function to be used to register your vote  
("nay", "abstain") or to indicate your wish to speak  
("comment", "question")*

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**AGENDA**

| <u>Item</u>   | <u>Action</u>   |
|---|---|
| 1. Declarations of Conflict of Interest<br>a. Excerpt from Bylaw 1, section 8*  | Information   |
| 2. Minutes of 8 March 2021* / Business Arising (Sophia Sanniti; minutes of 8 March 2021; 3a)  | Decision (SGRC)   |
| 3. Co-chairs' Remarks   | Information   |
| 4. Research Centres and Institutes<br>a. Renewal Extensions*  | Decision (SGRC)   |
| 5. Posthumous Degrees<br>a. Graduate Studies and Postdoctoral Affairs–current guidelines & calendar text* (Nilsen)<br>b. Awarding of Degrees – SGRC as Delegated Authority* (Dean/Casello)<br>c. Awarding of Degrees – Co-chairs as SGRC's Delegated Authority* (Dean/Casello)  | SEN-Regular<br>Information<br>Decision (SGRC)   |
| 6. Curricular Submissions<br>a. Arts* (Anna Esselment)<br>b. Conrad Grebel* (Nathan Funk)<br>c. Environment* (Peter Deadman)<br>d. Health* (Brian Laird)<br>e. Mathematics* (Adam Kolkiewicz)   | A; SEN-Regular<br>Decision (SGRC)<br>Decision (SGRC)<br>Decision (SGRC)<br>Decision (SGRC)                                |
| 7. Graduate Awards* (Marianne Simm)<br>a. Waterloo AI Institute Graduate Scholarship - operating<br>b. Faculty of Arts Graduate Award - operating<br>c. José Blakeley Graduate Scholarship in Data Systems - endowment<br>d. Harvey Bains and Ben Kaak Doctoral Award- trust<br>e. Marzieh (Mari) Foroutan Memorial Graduate Scholarship - endowment<br>f. Dean of Mathematics Excellence Scholarship - operating<br>g. Engineering Dean's Entrance Award – operating | Decision (SGRC)<br>Decision (SGRC)<br>Decision (SGRC)<br>Decision (SGRC)<br>Decision (SGRC)<br>Information<br>Information |
| 8. Other Business   | Information   |
| 9. Next Meeting: 10 May 2021 from 10:30 a.m. - 12 noon; Microsoft Teams   | Information   |

**CONFIDENTIAL SESSION**

|  |                                  |
|--|----------------------------------|
| 10. Posthumous Degree (Dean/Casello; Sivoththaman) | Information / Decision<br>(SGRC) |
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\*material attached  
\*\* to be distributed separately  
\*\*\*will not be in attendance at meeting  
“SGRC” to be approved on behalf of Senate  
“SEN” to be recommended to Senate for approval

5 April 2021

Kathy Winter, PhD, CPsych  
Assistant University Secretary

# Excerpt from Senate Bylaw 1

## 8. Declarations of conflict of interest

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|------|---|
| 8.01 | At the beginning of each meeting of Senate or any of Senate’s committees or councils, the chair will call for members to declare any conflicts of interest with regard to any agenda item. For agenda items to be discussed in closed session, the chair will call for declarations of conflict of interest at the beginning of the closed portion of the meeting. Members may nonetheless declare conflicts at any time during a meeting.  |
| 8.02 | A member shall be considered to have an actual, perceived or potential conflict of interest, when the opportunity exists for the member to use confidential information gained as a member of Senate, or any of Senate’s committees or councils, for the personal profit or advantage of any person, or use the authority, knowledge or influence of the Senate, or a committee or council thereof, to further her/his personal, familial or corporate interests or the interests of an employee of the university with whom the member has a marital, familial or sexual relationship. |
| 8.03 | Members who declare conflicts of interest shall not enter into debate nor vote upon the specified item upon which they have declared a conflict of interest. The chair will determine whether it is appropriate for said member to remove themselves from the meeting for the duration of debate on the specified item(s).  |
| 8.04 | Where Senate or a committee or council of Senate is of the opinion that a conflict of interest exists that has not been declared, the body may declare by a resolution carried by two-thirds of its members present at the meeting that a conflict of interest exists and a member thus found to be in conflict shall not enter into debate on the specified item upon which they have declared a conflict of interest. The chair will determine whether it is appropriate for said member to remove themselves from the meeting for the duration of debate on the specified item(s).   |

**University of Waterloo**  
**SENATE GRADUATE & RESEARCH COUNCIL**  
**Minutes of the 8 March 2021 Meeting**  
**[in agenda order]**  
**Microsoft Teams Meeting Videoconference**

**Present:** David Billedeau, Jeff Casello, Neil Craik, Peter Deadman, Charmaine Dean, Bernard Duncker, Anna Esselment, Ana Ferrer, Nathan Funk, Alison Hitchens, Adam Kolkiewicz, Brian Laird, Dmitri Marin, Daniel Martel, Bruce Muirhead, Liz Nilsen, Martin Ross, Max Salman, Jerika Sanderson, Sophia Sanmiti, Marianne Simm, Siva Sivorthaman, Richard Staines, Shirley Tang, Shawn Wettig, Kathy Winter (secretary)

**Resources:** Trevor Clews, Carrie MacKinnon, Amanda McKenzie

**Guests:** Hossein Abouee Mehrizi (item 5); Shoshannah Holdom; Neil Randall (item 4)

**Regrets:** David Clausi\*, Kareem Tarek Mostafa, Anita Layton, Mike Szarka

**Organization of Meeting:** Jeff Casello, co-chair of the council, took the chair, and Kathy Winter acted as secretary. The secretary advised that due notice of the meeting had been given, a quorum was present, and the meeting was properly constituted.

### **1. DECLARATIONS OF CONFLICT OF INTEREST**

No conflicts of interest were declared.

### **2. MINUTES OF 8 FEBRUARY 2021 AND BUSINESS ARISING**

By consensus, the minutes were approved as distributed.

### **3. CO-CHAIRS' REMARKS**

Dean updated members: (a) [Canada First Research Excellence Fund \(CFREF\) Global Water's Future site visit](#): the reviewers conveyed that graduate students raised significant concerns regarding interdisciplinarity—specifically experienced in the context of discussion with their graduate supervisors; Casello will ensure to follow up with that particular program to understand more; (b) Waterloo to host [COVID vaccination clinic](#).

Casello updated members: (c) [AMTD Waterloo Global Talent Postdoctoral Fellowship](#): applications now closed; 75 applications received for 3-5 positions; (d) [CGS M Competition](#): selections in progress; (e) [Strategic Plan](#): collaborative priorities of the research and strategic agenda (as led by Bruce Muirhead, Ian Rowlands, and Catherine Burns) include growing interdisciplinarity and interdisciplinarity programming;

### **4. RESEARCH CENTRES AND INSTITUTES - RENEWAL**

On behalf of Senate, council approved the renewal, for a 5-year term, of the Games Institute, as presented. Neil Randall (director) provided an overview of the Institute—featuring its focus on interdisciplinarity, as well as equity, diversity, inclusion, anti-racism, and decolonization. Randal responded to a question about future funding through new and ongoing efforts industrial grants, tri-agency funding, MITACS, and partnerships. Casello also invited Randall to connect with Wettig and Deadman who are leading investigations of collaborative programs, such as AI and climate change. In the absence of Randall, council continued discussion of student feedback in support of the Institute's focus on interdisciplinarity; council underscored the importance of ensuring student feedback mechanisms to better understand correlates of cohesion and sense of community. Duncker and Ferrer. Carried.

### **5. NEW GDIP IN DATA ANALYTICS – DIRECT ENTRY**

Council heard a motion to recommend to Senate to approve a new GDip in Data Analytics (Direct Entry) in Management Sciences, effective 1 September 2021, as presented. Since 2017, the Department of Management Sciences has offered the popular Type 2 Graduate Diploma in Data Analytics to students registered in the course-based MMSc program. Now, to expand on the success of the Type 2 Diploma, the Department of Management Sciences would like to launch a Type 3 Graduate Diploma in Data Analytics. This program would essentially be

the same as the existing Type 2 Diploma but will be available on a direct-entry basis to non-degree students who wish to complete only this diploma, rather than a full graduate degree. In response to a question, Abouee Mehrizi noted how this program differs from other data analytics and data science programs (such as Mathematics analytics program) in that the focus is on practical business analytics applications and is case-based. Sivoththaman and Kolkiewicz. Carried

## **6. GRADUATE STUDIES AND POSTDOCTORAL AFFAIRS – ACADEMIC CALENDAR CHANGES**

**a. Updates to University jurisdiction and disclaimer content.** Council heard a motion (as moved by Simm and seconded by Kolkiewicz) regarding updates to University Jurisdiction and disclaimer content for the academic calendar. A council member raised two concerns (1. proposed academic calendar text reads more as a Terms of Service than a contract given that the terms can change without notice and 2. calendar text does not address tuition refunds)—subsequent to which council voted to table the motion. Simm and Kolkiewicz. Carried. In the interim, Casello will facilitate scheduling a meeting between council member, any interested graduate students, the Registrar’s Office, GSPA, and Legal and Immigration Services for discussion and clarification of the authored content.

## **7. UNIVERISTY RESEARCH – RESEARCH ETHICS BOARD**

**Membership Changes.** On behalf of Senate, council approved one membership renewal for the Clinical Research Ethics Board. Joza and Martel. Carried.

## **8. CURRICULAR SUBMISSIONS**

**a. Conrad Grebel.** On behalf of Senate, council heard a motion to approve a minor program revision as presented. Funk and Esselment. Carried.

**b. Engineering.** On behalf of Senate, council heard an omnibus motion to approve item 1 as presented. Sivoththaman and Laird. Carried. On behalf of Senate, council heard an omnibus motion to approve item 2 as presented. Sivoththaman and Ferrer. Carried.

**c. Environment.** Council heard a motion to recommend to Senate to approve additions to the Master of Arts (MA) and Master of Environmental Studies (MES) in planning, effective 1 May 2021, as presented. This consists of adding: (1) a Master’s Research Paper study option; (2) information about course average requirements to the thesis study option; and (3) a description to the “Project Proposal Development Workshop” milestone within the thesis study option. Deadman and Craik. Carried.

## **9. GRADUATE AWARDS**

On behalf of Senate, council approved items a and b, as presented. Simm and Esselment. Carried. Council received item c and d for information, as presented.

## **10. OTHER BUSINESS**

Council was reminded that 8 March 2021 is International Women’s Day. Various campus-wide initiatives marking this celebration were described—one of which was [visit a Kudo page](#) where messages can be left for women whom have inspired.

## **11. NEXT MEETING**

The next meeting will be held Monday 12 April 2021 from 10:30 a.m. to 12 noon; Microsoft Teams.

8 March 2021

Kathy Winter, PhD, CPsych,  
Assistant University Secretary

## MEMORANDUM

**To:** Senate Graduate & Research Council

**CC:** Bernard Duncker, Associate Vice-President, Interdisciplinary Research  
Mary Wells, Dean of Engineering  
Kathy Winter, Assistant University Secretary and Privacy Officer

**From:** Charmaine Dean, Vice-President, Research and International

**Date:** March 30, 2021

**Subject:** Extensions for Centres due to Pandemic Circumstances

- For decision -

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As you are aware, the COVID-19 pandemic has created challenges and caused delays to some business processes for many units across Waterloo's campuses.

To provide sufficient time for the Waterloo Centre for Automotive Research (WatCAR), Engineering, to prepare a sound case for renewal, the Dean and governing body are proposing an extension of its mandate for an additional 12-month period, and I endorse this recommendation. The revised renewal date would then be 30 April 2022.

| <b>Centre</b>   | <b>Extension Period</b> | <b>Revised Renewal Date</b> |
|---|-------------------------|-----------------------------|
| Waterloo Centre for Automotive Research (WatCAR), ENG | 12 months               | 30 April 2022               |

March 29, 2021

TO: Kathy Winter, Privacy Officer and Assistant University Secretary,  
Senate Graduate and Research Council

FROM: Jeff Casello, Associate Vice-President, Graduate Studies and Postdoctoral Affairs

RE: Graduate Studies Academic Calendar changes

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**Items for approval:**

*Posthumous Degrees and Certificates.*

**Description and rationale for proposed changes:**

*New text for Posthumous Degrees and Certificates has been generated for the Graduate Studies Academic Calendar (GSAC) to formalize the University of Waterloo's practices regarding the process and criteria for granting posthumous degrees.*

*The proposed wording is consistent with what is anticipated will be proposed for UG posthumous degrees (i.e., percentage of coursework and possibility of degree of enrollment certificate). In the interest of ensuring such consistency, the current criteria will not be published in the GSAC until we receive confirmation from the RO of the approved UG criteria. However, the criteria will go into effect as of Spring 2021.*

**Proposed effective date:** Term: Spring Year: 2021

**Current [Graduate Studies Academic Calendar \(GSAC\)](#) page** (include the link to the web page where the changes are to be made):

<https://uwaterloo.ca/graduate-studies-academic-calendar/general-information-and-regulations>

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| <p><b>Proposed Graduate Studies Academic Calendar content:</b></p> |
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| <p><b><u>Posthumous Degrees and Certificates</u></b></p> |
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| <p><u>Posthumous credentials can be granted to a graduate student who, at the time of their death, was admitted to, or actively pursuing, a University of Waterloo graduate degree.</u></p> |
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| <p><u>If a student is terminally ill, similar criteria can be used, and the approval of the degree expedited. The most senior and appropriate administrator available may deliver the degree, in person, if possible, to the student at the student's (or student's family's) request.</u></p> |
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| <p><u>Typically, the student's research supervisor(s), the student's Program Director, or the Graduate Officer from the student's home department/school or program initiates the process for recommending a posthumous degree to the Faculty Associate Dean, Graduate Studies. If approved by the Associate Dean, the request is then sent to the Associate Vice-President, Graduate Studies and Postdoctoral Affairs (AVP GSPA). The AVP GSPA and the Vice President Research and International, as co-chairs of Senate Graduate and Research Council (SGRC), will decide if the posthumous degree will be conferred.</u></p> |
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| <p><u>The following criteria should be evaluated when assessing a student's eligibility for a posthumous degree:</u></p> |
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**Proposed Graduate Studies Academic Calendar content:**

**Professional or Coursework Master's:**

Grant a posthumous degree if:

- 50% or more of the total required courses are completed successfully.
- Note: If all course requirements for the program were achieved, any Type 2 Graduate Diplomas will be recognized on the student transcript and diploma, if these additional course requirements were also met. Relevant graduate specializations will be recognized on the student transcript (not diploma), if the requirements for the specialization were completed.

Grant a certificate of degree enrolment if academic requirements for a posthumous degree are not met.

**Research-based Master's with thesis or Master's Research Paper (MRP):**

Grant a posthumous degree if:

- 50% or more of the total required courses are completed successfully;
- proficiency in the area of study has been demonstrated (e.g., through required milestones); and
- there is substantive progress on thesis/MRP research. Evidence of sufficient research progress may include refereed output(s) in the research area related to the thesis/MRP, demonstrable progress on a draft of the thesis/MRP, a thesis/MRP submitted, but not defended/graded, or a thesis/MRP that only requires electronic submission to the University.
- Note: If all course requirements for the program were achieved, any Type 2 Graduate Diplomas will be recognized on the student transcript and diploma, if these additional course requirements were also met. If applicable, a graduate research field will be recognized on the student transcript (not diploma) if the requirements for the field were completed.

Grant a certificate of degree enrolment if academic requirements for a posthumous degree are not met.

**PhD:**

Grant a posthumous degree if:

- 50% or more of the total required courses are completed successfully;
- proficiency in the area of study has been demonstrated through successful completion of comprehensive examination or other required milestones; and
- there is substantive progress on thesis research. Evidence of sufficient research progress may include a research proposal, refereed output(s) in the research area related to the thesis, a draft of the thesis, a thesis submitted, but not defended/graded, or a thesis that only requires electronic submission to the University.
- Note: If all course requirements for the program were achieved, any Type 2 Graduate Diplomas will be recognized on the student transcript and diploma, if these additional course requirements were also met. If applicable, a graduate research field will be recognized on the student transcript (not diploma) if the requirements for the field were completed.

Grant a master's degree rather than a PhD where criteria related to thesis progress is not met, but work would satisfy other requirements for posthumous degree.

Grant a certificate of degree enrolment if academic requirements for a posthumous master or PhD degree are not met.

**Note:** This guideline (page 1) was endorsed by Executive Council in March 2011. It was derived from the work of Bud Walker and the Graduate Relations Committee. That work was comprised of an original endorsed version from March 2010 (page 2), an edited version (page 3), and this updated endorsed version (page 1).

## **Guidelines in the Event of the Death of a University of Waterloo Student**

University of Waterloo police services are often the first uWaterloo department to become aware of the death of a student. The University may also learn of the death of a student when family or friends contact the student's faculty or an academic support department such as the Registrar/GSO. In all cases, members of the campus community who become aware of the death of a student should immediately contact the office of the associate provost, students (APS). If the deceased is associated with one of the FUAC institutions, the APS will notify the relevant FUAC contact person to determine if a FUAC representative will coordinate actions in place of the APS.

As first responder for a student death that occurs locally, UW Police will arrange for notification of local authorities, next of kin, the APS, and any campus department (e.g. counseling, residence life, safety) needed to deal with immediate measures relating to the death. UW Police will advise the next of kin that they will be contacted by the APS. If the death involves a police investigation, UW Police will be responsible for coordinating activities with the other authorities. Apart from police activity, the APS will be responsible for coordinating all uWaterloo activities relating to the student's death including advising the student's faculty, the FedS/GSA and, where appropriate, CECS. The APS will be the contact person between uWaterloo and the student's family, next of kin, trustees and/or executors.

Following notification of a death, the APS will invoke, manage and coordinate the following:

- Counselling services will establish contact with and provide support to members of the campus community around the death. This may include arranging accommodation for some students for class attendance, assignments and exams.
- The APS will contact the family to offer support regarding any assistance the university can provide locally and to ascertain the family's wishes with respect to sensitivity concerning the nature of the death, contact between the family and the campus community or uWaterloo attendance at the funeral or memorial service.
- The APS will arrange for a representative of the university (dean, associate dean, associate provost, department chair or senior faculty member) to attend the funeral or memorial service. The university will not send flowers nor make a donation in respect of the student. University departments or members of the campus community may do so if they wish.
- The APS will arrange to accommodate any appropriate requests of the family relating to the student's possessions, a visit to campus by the family or any special needs relating to the death.
- If requested by friends or family, the APS will arrange for a suitable uWaterloo memorial, such as a tree planting, and/or a memorial service for the student.
- The Registrar/GSO will process any refunds owed the student's estate, make appropriate arrangements to deal with any student loans or outstanding fees, arrange to have uWaterloo records reflect the deceased status of the student, and process any required information or documents to have the death reflected in uWaterloo records.
- **If requested by the family, the Registrar/GSO in concert with the associate dean in the student's faculty will investigate the awarding of a posthumous degree\* to the student.**
- The President will write to the family to express the university's sorrow at the death of their family member. In some circumstances, the appropriate dean, associate dean or associate provost may wish to send condolences as well.

**Note\*:** The awarding of posthumous degrees is the responsibility of, and is guided by, Senate Undergraduate Council and Senate Graduate Council.

**Endorsed by EC – March 2011**

## **Guidelines in the Event of the Death of a UW Student**

- Members of the campus community are encouraged to contact the office of the associate provost, student services should they become aware of the death of a student.
- The associate provost, student services will ensure that there is a point person to coordinate the university's response. This is not to inform parents or deal with issues that are better handled by our own or regional police, but to determine how we may assist the parents or family members and ensure that the university's response is appropriate.
- Normally, the associate provost, student services and the dean or delegate of the faculty will attend the funeral or memorial service. These people would be the "official" university presence, but this in no way suggests that other people affected by the death should not attend.
- In instances where the funeral or memorial service is not publicized and the family does not inform the university, it may not be appropriate for university members to attend.
- The president will normally write and, in some instances, call the family to express the university's sorrow at the death of their family member.
- In some instances, it may be appropriate for the associate provost to call either prior to or following the president's contact to let the family know the things we can do to help them. For example, to ensure that the family does not worry about the student's possessions if he/she was an on-campus resident; that all arrangements with respect to classes, tuition, monies, etc. will be handled by us; that, where possible, we will try to assist with requests of the parents.
- Individuals may send donations and flowers but the university will not send an official donation or flowers.
- The Federation of Students will be kept informed and the president may attend the funeral if he/she finds it appropriate.
- In cases, where there is a suicide or otherwise difficult situation surrounding the death, all or some of the above may not be appropriate. The faculties, associate provost and vice-president academic & provost will jointly determine the appropriate course of action for the university.
- Faculty, instructors, teaching assistants, counselling, etc. will need to be aware of the student's death since this often has a serious impact on fellow students. In some instances, accommodations may need to be made for assignments and exams.
- If the family or friends express a desire for some kind of on-campus memorial, Plant Operations will arrange for a tree to be planted in the student's memory.

Endorsed by Executive Council March 3, 2010

## Guidelines in the Event of the Death of a University of Waterloo Student

Draft - February 2011

UW Police are usually the first University of Waterloo department to become aware of the death of a student. When the death of a student does not occur locally, the University often becomes aware of the death when family or friends contact the student's faculty or an academic support department such as the Registrar/GSO. In all cases, members of the campus community who become aware of the death of a student should immediately contact the office of the associate provost, students (APS).

As first responder for a student death that occurs locally, UW Police will arrange for the notification to local authorities, next of kin, the APS and any uWaterloo department needed to deal with immediate measures relating to the death (counseling, residence life, plant operations, safety, etc.). When the next of kin are notified, they will be advised that they will be contacted by the APS. If the death involves a police investigation, UW Police will be responsible for coordinating activities with the other authorities. Apart from that, the APS will be responsible for coordinating all uWaterloo activities relating to the student's death. The APS will be the contact person between uWaterloo and the student's family, next of kin, trustees and/or executors. The APS may assign some of this responsibility to other uWaterloo units as the situation requires.

Following notification of a death, the APS will invoke, manage and coordinate the following guidelines:

- Counselling services will establish contact with and provide support to members of the campus community relating to the death of the student. This may include arranging accommodation for some students for class attendance, assignments and exams.
- The APS will contact the family to offer support regarding any assistance the University can provide locally and to ascertain the family's wishes with respect to sensitivity concerning the nature of the death, contact between the family and the campus community or UW attendance at the funeral or memorial service.
- The APS will arrange for a representative of the University (dean, associate dean, associate provost, department chair or senior faculty member) to attend the funeral or memorial service. The University will not send flowers nor make a donation in respect of the student. University departments or members of the campus community may do so if they wish.
- The APS will arrange to accommodate any appropriate requests of the family relating to the student's possessions, a visit to campus by the family or any special needs relating to the death.
- If requested by friends or family, the APS will arrange for a suitable uWaterloo memorial, such as a tree planting, and/or a memorial service for the student.
- The Registrar/GSO will process any refunds owed the student's estate, make appropriate arrangements to deal with any student loans or outstanding fees, arrange to have uWaterloo records reflect the deceased status of the student and process any required information or documents to have the death reflected in University records.
- **If requested by the family the Registrar/GSO in concert with the student's faculty will investigate, and if appropriate, award a posthumous degree\* to the student.**
- The President will write to the family to express the University's sorrow at the death of their family member. In some circumstances, the appropriate Dean, Associate Dean or Associate Provost may wish to send condolences as well.

### Notes:

**\*Senate Undergraduate Council and Senate Graduate Council have established guidelines to be followed for the awarding of a posthumous degree**

February 23, 2021

**TO:** Kathy Winter, Privacy Officer and Assistant University  
Secretary, Senate Graduate and Research Council

**FROM:** Co-Chairs, Senate Graduate and Research Council

**RE:** Awarding of Posthumous Degrees - Delegated Authority

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**Item for approval:**

Awarding of Posthumous Degrees - Delegated Authority.

**Motion:**

That Senate Graduate and Research Council delegate the authority for awarding Posthumous Degrees to its co-chairs.

**Rationale:**

This motion is being brought forward:

- So that the delegated authority to SGRC co-chairs, for awarding posthumous degrees, is aligned with that of SUC. Specifically, the chair of SUC has held and exercised the delegated authority for awarding posthumous degrees since October 2012.
- To ensure that all posthumous degree requests are processed expeditiously and without undue delay. That is, by delegating this authority to SGRC co-chairs, decisions can be made as soon as possible and outside of the confines of scheduled monthly council meetings.

**Arts Faculty Council Report to  
Senate Graduate and Research Council**

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**CURRICULAR ITEMS for approval [bottom right pagination]**

- A) **Accounting:** Program Revision: update MAcc admission requirements [1-3]
- B) **Peace and Conflict Studies** - Course revision: PAC 671 [4]
- C) **PSYCH** – Program revision (Clinical): PSYCH 722C, PSYCH 811A/B/C [5-20]
- D) **PSYCH** - New Course: PSYCH 715 [21-22]
- E) **Faculty of Arts** – Milestone removal: Arts Academic Integrity Workshop requirement [23-28]

Prior to form submission, review the [content revision instructions](#) and information regarding [major/minor modifications](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Arts

**Program:** Master of Accounting (MAcc)

**Program contact name(s):** Stephanie Cooper (Grad Coordinator – Currently on mat leave, please contact MAcc@uwaterloo.ca), Dan Rogozynski (Program Director), David Ha (Program Associate Director)

**Form completed by:** Stephanie Cooper, Dan Rogozynski, David Ha

**Description of proposed changes:**

Note: changes to courses and milestones also require the completion/submission of the SGRC Course/Milestone-New/Revision/Inactivation form ([PC docx version](#) or [MAC docx version](#)).

- 1) *Change the minimum admission average requirement to include courses taken in the last two years of the undergraduate program, instead of the last three years.*
- 2) *Change the admission requirement for students in the Bachelor of Accounting and Financial Management program to include completion of the Professional Accountant Specialization.*
- 3) *Change the minimum admission requirement of the completion of a specific set of AFM courses to include the requirement of a grade of at least 60% in each course.*
- 4) *Change the minimum admission average requirement of a specific set of AFM courses from 75% to 70%, using the maximum grade achieved in a course in the case of repeated courses in the calculation of the average, instead of the first attempt.*
- 5) *Changes to the list of courses required for admission and changes to some of the course titles.*
- 6) *Add text to clarify that meeting the minimum admission requirements does not guarantee admission to the MAcc program.*

**Is this a [major modification](#) to the program?** Yes

**Rationale for change(s):**

- *These changes to the admission requirements align with the recent changes made to the Bachelor of Accounting and Financial Management (BAFM) program and associated courses for students entering that program in the 2019-20 and later years. These students will enter the MAcc program in January 2024 and later years.*
- *The changes to the BAFM program and related changes to the MAcc admission requirements are being made to support SAF's vision to ensure students graduating from these programs are financial leaders prepared for success in innovative organizations.*
- *These changes to the admission requirements will also affect and be appropriate for Math/CPA and Biotech/CPA program graduates that wish to apply to the MAcc program.*

**Proposed effective date:** Term: Spring Year: 2023

**Current [Graduate Studies Academic Calendar \(GSAC\)](#) page** (include the link to the web page where the changes are to be made):

<https://uwaterloo.ca/graduate-studies-academic-calendar/arts/school-accounting-and-finance/master-accounting-macc>

| Current Graduate Studies Academic Calendar content:   | Proposed Graduate Studies Academic Calendar content:  |
|---|---|
| <p><b>ADMISSION REQUIREMENTS</b></p> <p><b>Minimum requirements</b></p> <ul style="list-style-type: none"> <li>- Successful completion of any of the following University of Waterloo four-year Honours undergraduate degrees with at least a 75% average across all courses taken in the last three years: <ul style="list-style-type: none"> <li>▪ Bachelor of Accounting and Financial Management</li> <li>▪ Bachelor of Math/Chartered Professional Accountancy Studies, or</li> <li>▪ Bachelor of Science/Chartered Professional Accountancy Studies</li> </ul> </li> <li>- Completion of the following set of <del>Accounting and Financial Management (AFM)</del> courses with at least a 75% average across all courses, calculated using the <del>grade from the first attempt</del> at a course in the case of repeated courses: <ul style="list-style-type: none"> <li>▪ <del>AFM 311 Connections to Ethical Context</del></li> <li>▪ AFM 341 Accounting Information Systems</li> <li>▪ <del>AFM 351 Audit Strategy</del></li> <li>▪ AFM 362 Taxation 1</li> <li>▪ <del>AFM 363 Taxation 2</del></li> <li>▪ AFM 373 Cases and Applications in Corporate Finance or AFM 476 <del>Cases and Applications in Corporate Finance</del></li> <li>▪ AFM 391 Intermediate Financial Accounting 2</li> <li>▪ <del>AFM 401 Accounting Theory</del></li> <li>▪ AFM 433 Business Strategy</li> <li>▪ <del>AFM 462 Taxation 3 for Public Accountants</del></li> <li>▪ <del>AFM 479 Cases and Applications in Finance II or AFM 424 Equities and AFM 322 Derivatives or ACTSC 371 Introduction to</del></li> </ul> </li> </ul> | <p><b>ADMISSION REQUIREMENTS</b></p> <p><b>Minimum requirements</b></p> <p><u>To be considered for admission to the MAcc program, students must meet these minimum requirements:</u></p> <ul style="list-style-type: none"> <li>- Successful completion of any of the following University of Waterloo four-year Honours undergraduate degrees, with at least a 75% average across all courses taken in the last <u>two years of the program</u>: <ul style="list-style-type: none"> <li>▪ Bachelor of Accounting and Financial Management, <u>with completion of the Professional Accountant Specialization</u></li> <li>▪ Bachelor of Math/Chartered Professional Accountancy Studies, or</li> <li>▪ Bachelor of Science/Chartered Professional Accountancy Studies</li> </ul> </li> <li>- Completion of the following set of courses, <u>with a grade of at least 60% in each course and with at least a 70% average across all courses</u>, calculated using the <u>maximum grade in a course</u> in the case of repeated courses: <ul style="list-style-type: none"> <li>▪ <u>AFM 273 Financial Instruments and Capital Markets or AFM 272 Global Capital Markets</u></li> <li>▪ <u>AFM 274 Introduction to Corporate Finance or AFM 372 Corporate Finance</u></li> <li>▪ <u>AFM 291 Intermediate Financial Accounting I</u></li> <li>▪ AFM 311 <u>Professional Ethics</u></li> <li>▪ <u>AFM 321 Personal Financial Planning</u></li> <li>▪ AFM 341 Accounting Information Systems</li> <li>▪ <u>AFM 362 Taxation 1 - Corporate Taxation</u></li> <li>▪ AFM 373 Cases and Applications in Corporate Finance or AFM 476 <u>Corporate Financial Decision Making</u></li> </ul> </li> </ul> |

| Current Graduate Studies Academic Calendar content:   | Proposed Graduate Studies Academic Calendar content:  |
|---|---|
| <p><del>Investments and MATBUS</del><br/> <del>470 Derivatives</del></p> <ul style="list-style-type: none"> <li>▪ AFM 481 Cost Management Systems</li> <li>▪ AFM 482 Performance Measurement and Organization Control</li> <li>▪ AFM 491 Advanced Financial Accounting</li> </ul> | <ul style="list-style-type: none"> <li>▪ <u>AFM 382 Cost Management Systems</u></li> <li>▪ AFM 391 Intermediate Financial Accounting II</li> <li>▪ AFM 433 Business Strategy</li> <li>▪ <u>AFM 451 Audit Strategy</u></li> <li>▪ AFM 462 <u>Advanced Taxation</u></li> <li>▪ AFM 482 Performance Measurement and Organization Control</li> <li>▪ AFM 491 Advanced Financial Accounting</li> </ul> <p><u>Note: Simply meeting these minimum requirements does not guarantee admission to the MAcc program.</u></p> |

**How will students currently registered in the program be impacted by these changes?**

*Not applicable – students currently registered in the program will not be impacted by these changes.*

**Department/School approval date** (mm/dd/yy): 01/24/20

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 10/01/2020

**Faculty approval date** (mm/dd/yy): 03/16/21

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

**Senate approval date** (mm/dd/yy) (if applicable):

Faculty: Arts

Effective term: Term/Year Spring 2021

Course  New  Revision  Inactivation

Milestone  New  Revision  Inactivation

New milestone title: ..

For course revisions, indicate the type(s) of changes: **description, title**  
(e.g. consent, description, title, requisites)

Course Subject code: PACS Course number: 671

Course Title (max. 100 characters incl. spaces): The Bible and Peace

Course Short Title (max. 30 characters incl. spaces): The Bible and Peace

Grading Basis: NUMERICAL

Course Credit Weight: 0.50

Course Consent Required:

Course Description: An examination of diverse biblical views of peace in relation to war, justice, and salvation with attention to their relevance for the contemporary quest for peace.

New course description (for revision only): An examination of diverse biblical views of peace and violence with attention to the use of the Bible within both historical and contemporary conflict situations. Topics may include physical violence, economic violence, gender issues, residential schools, ethnic conflict, racism.

**New course title: The Bible, Peace, and Violence**

Meet Type(s): Lecture .....

Primary Meet Type: Lecture

[Requisites:](#)

Special topics course: Yes  No

Cross-listed: Yes  No

Course Subject(s) to be cross-listed with and approval status: TS 619 (approved by the Conrad Grebel University College Council 10/11/19)

Sections combined/heldwith:

**Rationale for request:**

**Course title and Content revision reflects an approach to biblical scholarship that links to contemporary issues relevant to MTS and PACS students.**

Prepared by: Seth Ratzlaff

Date: 18-Nov-19

Prior to form submission, review the [content revision instructions](#) and information regarding [major/minor modifications](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Arts

**Program:** Doctor of Philosophy (PhD) in Psychology

**Program contact name(s):** Jonathan Fugelsang, Tammy Neal

**Form completed by:** Tammy Neal

**Description of proposed changes:**

Note: changes to courses and milestones also require the completion/submission of the [SGRC Graduate Studies Course/Milestone Form](#).

*Updating the course requirements for the Clinical Psychology graduate research field within the PhD in Psychology program to provide students more flexibility/options for one of the required practicum courses.*

**Is this a [major modification](#) to the program?** No

**Rationale for change(s):**

*Due to the pandemic, we need to add flexibility for the students to fulfill their practica requirements. Additionally, we have noted that for students enrolled in their first year of the program, summer practica are becoming very hard to find. The flexibility found in taking either this course, or two of PSYCH 811 A/B/C will be available to students currently enrolled in the Clinical Psychology graduate research field within the PhD in Psychology program.*

**Proposed effective date:** Term: Spring Year: 2021

**Current [Graduate Studies Academic Calendar \(GSAC\)](#) page** (include the link to the web page where the changes are to be made):

<https://uwaterloo.ca/graduate-studies-academic-calendar/arts/departments/psychology/doctor-philosophy-phd-psychology#Clinical%20Psychology>

| Current Graduate Studies Academic Calendar content:   | Proposed Graduate Studies Academic Calendar content:  |
|---|---|
| <p><b>Degree requirements</b><br/><b>Thesis option:</b></p> <ul style="list-style-type: none"> <li>• Courses               <ul style="list-style-type: none"> <li>○ Students enrolled in the doctoral program must complete the Department's statistics requirements and comprehensive breadth requirements. The statistics requirements may be met by satisfactory performance in at least 1 of</li> </ul> </li> </ul> | <p><b>Degree requirements</b><br/><b>Thesis option:</b></p> <ul style="list-style-type: none"> <li>• Courses               <ul style="list-style-type: none"> <li>○ Students enrolled in the doctoral program must complete the Department's statistics requirements and comprehensive breadth requirements. The statistics requirements may be met by satisfactory performance in at least 1 of</li> </ul> </li> </ul> |

| Current Graduate Studies Academic Calendar content:  | Proposed Graduate Studies Academic Calendar content:   |
|--|--|
| <p>2 core statistics courses: PSYCH 630 Advanced Analysis of Variance and PSYCH 632 Multiple Regression (or credit granted for evidence of a strong undergraduate statistics background) plus 1 additional statistics course. The additional course may be the remaining core statistics course or a different statistics course such as: PSYCH 800 Psychometric Theory &amp; Structural Equation Modeling; PSYCH 801 Advanced Structural Equation Modeling; PSYCH 803 Statistical Reasoning &amp; Advanced Experimental Analysis; PSYCH 804 Multi-Level Modeling Applications in Psychology.</p> <ul style="list-style-type: none"> <li>○ To meet the Departmental breadth requirements, students will be required to take 4 one-term courses or their equivalent outside their areas/divisions. For the purposes of this requirement the relevant areas are: <ul style="list-style-type: none"> <li>▪ Clinical</li> <li>▪ Cognitive</li> <li>▪ Cognitive Neuroscience</li> <li>▪ Developmental</li> <li>▪ Industrial/Organizational</li> <li>▪ Quantitative Methods</li> <li>▪ Social</li> </ul> </li> <li>○ Extra departmental courses as well as transfer credits may also be considered. Usually no more than 2 one-term credits toward breadth requirements are granted from such sources.</li> <li>○ To meet the Departmental core requirements, students will be required to take 6 courses in their area of research.</li> <li>○ Below is a list of the graduate research fields and the required courses for each area: <ul style="list-style-type: none"> <li>▪ <a href="#">Clinical Psychology</a></li> <li>▪ <a href="#">Cognitive Neuroscience</a></li> <li>▪ <a href="#">Cognitive Psychology</a></li> <li>▪ <a href="#">Developmental Psychology</a></li> <li>▪ <a href="#">Industrial/Organizational Psychology</a></li> <li>▪ <a href="#">Social Psychology</a></li> </ul> </li> <li>○ Students specializing in Clinical Psychology must complete the following courses: <ul style="list-style-type: none"> <li>▪ Year One <ul style="list-style-type: none"> <li>▪ Coursework:</li> </ul> </li> </ul> </li> </ul> | <p>2 core statistics courses: PSYCH 630 Advanced Analysis of Variance and PSYCH 632 Multiple Regression (or credit granted for evidence of a strong undergraduate statistics background) plus 1 additional statistics course. The additional course may be the remaining core statistics course or a different statistics course such as: PSYCH 800 Psychometric Theory &amp; Structural Equation Modeling; PSYCH 801 Advanced Structural Equation Modeling; PSYCH 803 Statistical Reasoning &amp; Advanced Experimental Analysis; PSYCH 804 Multi-Level Modeling Applications in Psychology.</p> <ul style="list-style-type: none"> <li>○ To meet the Departmental breadth requirements, students will be required to take 4 one-term courses or their equivalent outside their areas/divisions. For the purposes of this requirement the relevant areas are: <ul style="list-style-type: none"> <li>▪ Clinical</li> <li>▪ Cognitive</li> <li>▪ Cognitive Neuroscience</li> <li>▪ Developmental</li> <li>▪ Industrial/Organizational</li> <li>▪ Quantitative Methods</li> <li>▪ Social</li> </ul> </li> <li>○ Extra departmental courses as well as transfer credits may also be considered. Usually no more than 2 one-term credits toward breadth requirements are granted from such sources.</li> <li>○ To meet the Departmental core requirements, students will be required to take 6 courses in their area of research.</li> <li>○ Below is a list of the graduate research fields and the required courses for each area: <ul style="list-style-type: none"> <li>▪ <a href="#">Clinical Psychology</a></li> <li>▪ <a href="#">Cognitive Neuroscience</a></li> <li>▪ <a href="#">Cognitive Psychology</a></li> <li>▪ <a href="#">Developmental Psychology</a></li> <li>▪ <a href="#">Industrial/Organizational Psychology</a></li> <li>▪ <a href="#">Social Psychology</a></li> </ul> </li> <li>○ Students specializing in Clinical Psychology must complete the following courses: <ul style="list-style-type: none"> <li>▪ Year One <ul style="list-style-type: none"> <li>▪ Coursework:</li> </ul> </li> </ul> </li> </ul> |

| Current Graduate Studies Academic Calendar content:  | Proposed Graduate Studies Academic Calendar content:   |
|--|--|
| <ul style="list-style-type: none"> <li>▪ PSYCH 632 Multiple Regression</li> <li>▪ PSYCH 716 Adult Psychopathology</li> <li>▪ PSYCH 717 Psychological Assessment I</li> <li>▪ PSYCH 718 Psychological Assessment II</li> <li>▪ PSYCH 719 Ethics, Diversity, and Professional Issues in Clinical Psychology</li> <li>▪ Breadth Requirements</li> <li>▪ Clinical Practica: <ul style="list-style-type: none"> <li>▪ PSYCH 720A Practicum in Interviewing &amp; Cognitive Assessment I</li> <li>▪ PSYCH 720B Practicum in Interviewing &amp; Cognitive Assessment II</li> <li>▪ PSYCH 721A Diagnostic Assessment Practicum I</li> <li>▪ PSYCH 721B Diagnostic Assessment Practicum II</li> <li>▪ PSYCH 722C Clinical Fieldwork Placement I</li> </ul> </li> <li>▪ Research Activities: <ul style="list-style-type: none"> <li>▪ PSYCH 621 Advanced Clinical Research Forum I</li> </ul> </li> <li>▪ Year Two <ul style="list-style-type: none"> <li>▪ Coursework: <ul style="list-style-type: none"> <li>▪ PSYCH 723 Child Psychopathology and Psychotherapy</li> <li>▪ PSYCH 724 Personality &amp;</li> </ul> </li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>▪ PSYCH 632 Multiple Regression</li> <li>▪ PSYCH 716 Adult Psychopathology</li> <li>▪ PSYCH 717 Psychological Assessment I</li> <li>▪ PSYCH 718 Psychological Assessment II</li> <li>▪ PSYCH 719 Ethics, Diversity, and Professional Issues in Clinical Psychology</li> <li>▪ Breadth Requirements</li> <li>▪ Clinical Practica: <ul style="list-style-type: none"> <li>▪ PSYCH 720A Practicum in Interviewing &amp; Cognitive Assessment I</li> <li>▪ PSYCH 720B Practicum in Interviewing &amp; Cognitive Assessment II</li> <li>▪ PSYCH 721A Diagnostic Assessment Practicum I</li> <li>▪ PSYCH 721B Diagnostic Assessment Practicum II</li> <li>▪ PSYCH 722C Clinical <u>Full-Time Fieldwork Placement I (0.50 unit weight) or PSYCH 811C Clinical Part-time Fieldwork Placement I (0.25 unit weight)</u></li> </ul> </li> <li>▪ Research Activities: <ul style="list-style-type: none"> <li>▪ PSYCH 621 Advanced Clinical Research Forum I</li> </ul> </li> <li>▪ Year Two <ul style="list-style-type: none"> <li>▪ Coursework:</li> </ul> </li> </ul> |

| Current Graduate Studies Academic Calendar content:   | Proposed Graduate Studies Academic Calendar content:  |
|---|---|
| <ul style="list-style-type: none"> <li>Measurement Theory           <ul style="list-style-type: none"> <li>▪ PSYCH 725 Cognitive Behaviour Therapy</li> <li>▪ Breadth Requirements</li> </ul> </li> <li>▪ Clinical Practica:           <ul style="list-style-type: none"> <li>▪ PSYCH 726A Practicum in Integrated Assessment I</li> <li>▪ PSYCH 726B Practicum in Integrated Assessment II</li> <li>▪ Elective: PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II (optional, by approval)</li> </ul> </li> <li>▪ Research Activities:           <ul style="list-style-type: none"> <li>▪ PSYCH 621 Advanced Clinical Research Forum II</li> </ul> </li> <li>▪ Year Three           <ul style="list-style-type: none"> <li>▪ Coursework:               <ul style="list-style-type: none"> <li>▪ PSYCH 727 Efficacy and Program Evaluation</li> <li>▪ PSYCH 728 Psychotherapy: Classical Roots &amp; Contemporary Developments</li> <li>▪ Breadth Requirements</li> </ul> </li> <li>▪ Clinical Practica:               <ul style="list-style-type: none"> <li>▪ PSYCH 729A, PSYCH 729B, PSYCH 729C Child and Adolescent Psychotherapy Practicum I, II, III</li> <li>▪ PSYCH 730A, PSYCH 730B, PSYCH 730C Adult</li> </ul> </li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>▪ PSYCH 723 Child Psychopathology and Psychotherapy</li> <li>▪ PSYCH 724 Personality &amp; Measurement Theory</li> <li>▪ PSYCH 725 Cognitive Behaviour Therapy</li> <li>▪ Breadth Requirements</li> <li>▪ Clinical Practica:           <ul style="list-style-type: none"> <li>▪ PSYCH 726A Practicum in Integrated Assessment I</li> <li>▪ PSYCH 726B Practicum in Integrated Assessment II</li> <li>▪ Elective: PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II (optional, by approval). <u>Note: Students must have completed PSYCH 722C Clinical Full-Time Fieldwork Placement I or a set of 2 of PSYCH 811A, PSYCH 811B, and PSYCH 811C Clinical Part-time Fieldwork Placement I, before they are eligible to take PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II.</u></li> </ul> </li> <li>▪ Research Activities:</li> </ul> |

| Current Graduate Studies Academic Calendar content:   | Proposed Graduate Studies Academic Calendar content:  |
|---|---|
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Psychotherapy Practicum I, II, III</li> <li>▪ Elective: PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II (optional, by approval)</li> <li>▪ Research Activities:               <ul style="list-style-type: none"> <li>▪ PSYCH 621 Advanced Clinical Research Forum III</li> </ul> </li> </ul> </li> <li>▪ Year Four           <ul style="list-style-type: none"> <li>▪ Coursework:               <ul style="list-style-type: none"> <li>▪ PSYCH 731 Emotion-Focused Therapy</li> <li>▪ Unfulfilled Breadth Requirements</li> </ul> </li> <li>▪ Clinical Practica:               <ul style="list-style-type: none"> <li>▪ PSYCH 732A, PSYCH 732B, PSYCH 732C Child and Adolescent Psychotherapy Practicum I, II, III</li> <li>▪ PSYCH 733A, PSYCH 733B, PSYCH 733C Adult Psychotherapy Practicum I, II, III</li> <li>▪ Elective: PSYCH 737A, PSYCH 737B, PSYCH 737C Emotion-Focused Therapy Practicum</li> <li>▪ Elective: PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II or PSYCH 739A, PSYCH 739B, PSYCH 739C Clinical Fieldwork Placement III</li> </ul> </li> </ul> </li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>▪ PSYCH 621 Advanced Clinical Research Forum II</li> </ul> </li> <li>▪ Year Three           <ul style="list-style-type: none"> <li>▪ Coursework:               <ul style="list-style-type: none"> <li>▪ PSYCH 727 Efficacy and Program Evaluation</li> <li>▪ PSYCH 728 Psychotherapy: Classical Roots &amp; Contemporary Developments</li> <li>▪ Breadth Requirements</li> </ul> </li> <li>▪ Clinical Practica:               <ul style="list-style-type: none"> <li>▪ PSYCH 729A, PSYCH 729B, PSYCH 729C Child and Adolescent Psychotherapy Practicum I, II, III</li> <li>▪ PSYCH 730A, PSYCH 730B, PSYCH 730C Adult Psychotherapy Practicum I, II, III</li> <li>▪ Elective: PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II (optional, by approval)</li> <li>▪ <u>Note: Students must have completed PSYCH 722C Clinical Full-Time Fieldwork Placement I or a set of 2 of PSYCH 811A, PSYCH 811B, and PSYCH 811C Clinical Part-time Fieldwork Placement I, before they are</u></li> </ul> </li> </ul> </li> </ul> </li> </ul> |

| Current Graduate Studies Academic Calendar content:   | Proposed Graduate Studies Academic Calendar content:   |
|---|--|
| <p>(optional, by approval)</p> <ul style="list-style-type: none"> <li>▪ Research Activities: <ul style="list-style-type: none"> <li>▪ PSYCH 621<br/>Advanced<br/>Clinical Research<br/>Forum IV</li> </ul> </li> <li>▪ Year Five (and beyond) <ul style="list-style-type: none"> <li>▪ Clinical Practica: <ul style="list-style-type: none"> <li>▪ PSYCH 734A,<br/>PSYCH 734B,<br/>PSYCH 734C<br/>Practicum in<br/>Supervision I, II,<br/>III (required of all<br/>students)</li> <li>▪ PSYCH 735A,<br/>PSYCH 735B,<br/>PSYCH 735C<br/>Child and<br/>Adolescent<br/>Psychotherapy<br/>Practicum I, II, III</li> <li>▪ PSYCH 736A,<br/>PSYCH 736B,<br/>PSYCH 736C<br/>Adult<br/>Psychotherapy<br/>Practicum I, II, III</li> <li>▪ Elective: PSYCH<br/>737A, PSYCH<br/>737B, PSYCH<br/>737C Emotion-<br/>Focused Therapy<br/>Practicum</li> <li>▪ Elective: PSYCH<br/>740A, PSYCH<br/>740B, PSYCH<br/>740C Senior<br/>Practicum I or<br/>PSYCH 741A,<br/>PSYCH 741B,<br/>PSYCH 741C<br/>Senior Practicum<br/>II or PSYCH<br/>742A, PSYCH<br/>742B, PSYCH<br/>742C Senior<br/>Practicum III<br/>(optional, by<br/>approval)</li> </ul> </li> </ul> </li> </ul> | <p><u>eligible to take<br/>PSYCH 738A,<br/>PSYCH 738B,<br/>PSYCH 738C<br/>Clinical Fieldwork<br/>Placement II.</u></p> <ul style="list-style-type: none"> <li>▪ Research Activities: <ul style="list-style-type: none"> <li>▪ PSYCH 621<br/>Advanced<br/>Clinical Research<br/>Forum III</li> </ul> </li> <li>▪ Year Four <ul style="list-style-type: none"> <li>▪ Coursework: <ul style="list-style-type: none"> <li>▪ PSYCH 731<br/>Emotion-<br/>Focused Therapy</li> <li>▪ Unfulfilled<br/>Breadth<br/>Requirements</li> </ul> </li> <li>▪ Clinical Practica: <ul style="list-style-type: none"> <li>▪ PSYCH 732A,<br/>PSYCH 732B,<br/>PSYCH 732C<br/>Child and<br/>Adolescent<br/>Psychotherapy<br/>Practicum I, II, III</li> <li>▪ PSYCH 733A,<br/>PSYCH 733B,<br/>PSYCH 733C<br/>Adult<br/>Psychotherapy<br/>Practicum I, II, III</li> <li>▪ Elective: PSYCH<br/>737A, PSYCH<br/>737B, PSYCH<br/>737C Emotion-<br/>Focused Therapy<br/>Practicum</li> <li>▪ Elective: PSYCH<br/>738A, PSYCH<br/>738B, PSYCH<br/>738C Clinical<br/>Fieldwork<br/>Placement II or<br/>PSYCH 739A,<br/>PSYCH 739B,<br/>PSYCH 739C<br/>Clinical Fieldwork<br/>Placement III<br/>(optional, by<br/>approval)</li> </ul> </li> <li>▪ Research Activities: <ul style="list-style-type: none"> <li>▪ PSYCH 621<br/>Advanced</li> </ul> </li> </ul> </li> </ul> |

| Current Graduate Studies Academic Calendar content: | Proposed Graduate Studies Academic Calendar content:  |
|---|---|
|   | <p style="text-align: right;">Clinical Research Forum IV</p> <ul style="list-style-type: none"> <li>▪ Year Five (and beyond) <ul style="list-style-type: none"> <li>▪ Clinical Practica: <ul style="list-style-type: none"> <li>▪ PSYCH 734A, PSYCH 734B, PSYCH 734C Practicum in Supervision I, II, III (required of all students)</li> <li>▪ PSYCH 735A, PSYCH 735B, PSYCH 735C Child and Adolescent Psychotherapy Practicum I, II, III</li> <li>▪ PSYCH 736A, PSYCH 736B, PSYCH 736C Adult Psychotherapy Practicum I, II, III</li> <li>▪ Elective: PSYCH 737A, PSYCH 737B, PSYCH 737C Emotion-Focused Therapy Practicum</li> <li>▪ Elective: PSYCH 740A, PSYCH 740B, PSYCH 740C Senior Practicum I or PSYCH 741A, PSYCH 741B, PSYCH 741C Senior Practicum II or PSYCH 742A, PSYCH 742B, PSYCH 742C Senior Practicum III (optional, by approval)</li> </ul> </li> </ul> </li> </ul> |

**How will students currently registered in the program be impacted by these changes?**

*Currently registered students will have the option to complete PSYCH 722C or a set of 2 of PSYCH 811A, PSYCH 811B, and PSYCH 811C as part of their degree requirements.*

**Department/School approval date (mm/dd/yy): 12/03/20**

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 12/04/20

**Faculty approval date** (mm/dd/yy): 03/16/21

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

**Senate approval date** (mm/dd/yy) (if applicable):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Arts

**Effective date:** Term: Spring      Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New:            Complete all course elements below
- Inactivate:    Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise:        Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title, course consent*):  
*Course title, Course description, Course consent, Anti-requisite*

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: PSYCH

Course number: 722C

Course ID: 014578

Course title (max. 100 characters including spaces): Clinical Full-Time Fieldwork Placement I

Course short title (max. 30 characters including spaces): Clinical FT Fieldwork Plct I

Grading basis: Credit/No Credit

Course credit weight: 0.50

Course consent required: Department

Course description: This spring practicum offers 400 hours of training in assessment and/or treatment procedures in a clinical setting that are accrued by working 4 days per week. This practicum can be completed by working 4 days a week in one setting or splitting the 4 days across two settings. Clinical students would enrol for this course in the spring of their first, second or third year of the program.

Prior to undertaking the placement, the student must submit to the Director of the Clinical Program a proposal that outlines the plans for the practicum (e.g., the nature and quantity of clinical work) and the arrangements for supervision. Only students in the Clinical Psychology program are permitted to take this course. Graded on a CR/NCR basis.

Meet type(s): Practicum

Primary meet type: Practicum

Delivery mode: On-campus

Requisites: Antirequisites: PSYCH 811A, PSYCH 811B, PSYCH 811C

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

**Rationale for request:**

Due to the pandemic, we need to add flexibility for the students to fulfill their practica requirements. Additionally, we have noted that for students enrolled in their first year of the program, summer practica are becoming very hard to find. The flexibility found in taking either this course, or two of PSYCH 811 A/B/C will be available to students currently enrolled in the clinical psychology research field/program.

**Form completed by:**

**Department/School approval date** (mm/dd/yy): 12/03/20

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 12/04/20

**Faculty approval date** (mm/dd/yy): 03/16/21

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Arts

**Effective date:** Term: Spring Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (e.g. *Course description, Course title*):

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: PSYCH

Course number: 811A

Course ID:

Course title (max. 100 characters including spaces): Clinical Part-time Fall Fieldwork Placement I

Course short title (max. 30 characters including spaces): Clin PT Fall Field Plct I

Grading basis: Credit/No Credit

Course credit weight: 0.25

Course consent required: Department

Course description: This fall practicum offers 200 hours of training in assessment and/or treatment procedures in a clinical setting, which are accrued by working in that setting 2 days per week. Clinical students would enrol in this course in the fall of their second or third year of the program. Must be taken with either PSYCH 811B or PSYCH 811C.

Prior to undertaking the placement, the student must submit to the Director of the Clinical Program a proposal that outlines the plans for the practicum (e.g., the nature and quantity of clinical work) and the arrangements for supervision. Only students in the Clinical Psychology program are permitted to take this course. Graded on a

CR/NCR basis.

Meet type(s): Practicum \_ \_ \_

Primary meet type: Practicum

Delivery mode: On-campus

Requisites:

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

**Rationale for request:**

Due to the pandemic, we need to add flexibility for the students to fulfill their practica requirements. Additionally, we have noted that for students enrolled in their first year of the program, summer practica are becoming very hard to find. The flexibility found in taking two of PSYCH 811 A/B/C instead of PSYCH 722C will be available to all students currently enrolled in the clinical psychology research field/program.

**Form completed by:**

**Department/School approval date** (mm/dd/yy): 12/03/20

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 12/04/20

**Faculty approval date** (mm/dd/yy): 03/16/21

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Arts

**Effective date:** Term: Spring Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: PSYCH

Course number: 811B

Course ID:

Course title (max. 100 characters including spaces): Clinical Part-time Winter Fieldwork Placement I

Course short title (max. 30 characters including spaces): Clin PT Winter Field Plct I

Grading basis: Credit/No Credit

Course credit weight: 0.25

Course consent required: Department

Course description: This winter practicum offers 200 hours of training in assessment and/or treatment procedures in a clinical setting, which are accrued by working in that setting 2 days per week. Clinical students would enrol for this course in the winter of their second or third year of the program. Must be taken with either PSYCH 811A or PSYCH 811C.

Prior to undertaking the placement, the student must submit to the Director of the Clinical Program a proposal that outlines the plans for the practicum (e.g., the nature and quantity of clinical work) and the arrangements for supervision. Only students in the Clinical Psychology program are permitted to take this course. Graded on a

CR/NCR basis.

Meet type(s): Practicum \_ \_ \_

Primary meet type: Practicum

Delivery mode: On-campus

Requisites:

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

**Rationale for request:**

Due to the pandemic, we need to add flexibility for the students to fulfill their practica requirements. Additionally, we have noted that for students enrolled in their first year of the program, summer practica are becoming very hard to find. The flexibility found in taking two of PSYCH 811 A/B/C instead of PSYCH 722C will be available to all students currently enrolled in the clinical psychology research field/program.

**Form completed by:**

**Department/School approval date** (mm/dd/yy): 12/03/20

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 12/04/20

**Faculty approval date** (mm/dd/yy): 03/16/21

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Arts

**Effective date:** Term: Spring Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (e.g. *Course description, Course title*):

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: PSYCH

Course number: 811C

Course ID:

Course title (max. 100 characters including spaces): Clinical Part-time Spring Fieldwork Placement I

Course short title (max. 30 characters including spaces): Clin PT Spring Field Plct I

Grading basis: Credit/No Credit

Course credit weight: 0.25

Course consent required: Department

Course description: This spring practicum offers 200 hours of training in assessment and/or treatment procedures in a clinical setting, which are accrued by working in that setting 2 days per week. Clinical students would enrol for this course in the spring of their first, second or third year of the program. Must be taken with either PSYCH 811A or PSYCH 811B.

Prior to undertaking the placement, the student must submit to the Director of the Clinical Program a proposal that outlines the plans for the practicum (e.g., the nature and quantity of clinical work) and the arrangements for supervision. Only students in the Clinical Psychology program are permitted to take this course. Graded on a

CR/NCR basis.

Meet type(s): Practicum \_ \_ \_

Primary meet type: Practicum

Delivery mode: On-campus

Requisites:

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

**Rationale for request:**

Due to the pandemic, we need to add flexibility for the students to fulfill their practica requirements. Additionally, we have noted that for students enrolled in their first year of the program, summer practica are becoming very hard to find. The flexibility found in taking two of PSYCH 811 A/B/C instead of PSYCH 722C will be available to all students currently enrolled in the clinical psychology research field/program.

**Form completed by:**

**Department/School approval date** (mm/dd/yy): 12/03/20

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 12/04/20

**Faculty approval date** (mm/dd/yy): 03/16/21

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Arts

**Effective date:** Term: Spring Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: PSYCH

Course number: 715

Course ID:

Course title (max. 100 characters including spaces): Family Systems

Course short title (max. 30 characters including spaces): Family Systems

Grading basis: Credit/No Credit

Course credit weight: 0.50

Course consent required: Department

Course description: This course will provide an intensive training experience in the clinical foundations of family systems theory and family therapy practice. Classical and contemporary theoretical and research applications will provide fundamentals surrounding the systemic view of human functioning that gives rise to a particular form of intervention (i.e., the family therapies). Clinical formulation will be heavily emphasized, and family-based formulation will be compared and contrasted with individual psychological formulation. Students will develop a holistic perspective on “family therapy intervention”, with particular emphasis on Structural and Emotion-Focused Family Therapy. Direct clinical work and case review will be emphasized. Specifically, students will have

opportunity for direct (i.e., “face to face”) clinical contact, either with their own or a shared (co-therapy) client at the CMHRT. Only students in the Clinical Psychology program are permitted to take this course. Graded on a CR/NCR basis

Meet type(s): Seminar    \_\_\_    \_\_\_    \_\_\_

Primary meet type: Seminar

Delivery mode: On-campus

Requisites:

Special topics course: Yes                       No

Cross-listed course:    Yes                       No

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

**Rationale for request:**

The course is being introduced because currently there is no family therapy instruction in the clinical psychology research field/program. We want to provide further opportunity for development in terms of student preparedness for professional practice. This is an elective course.

**Form completed by:**

**Department/School approval date** (mm/dd/yy): 12/03/20

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 12/04/20

**Faculty approval date** (mm/dd/yy): 03/16/21

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Arts

**Effective date:** Term: Spring      Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: Academic Integrity Workshop
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New:            Complete all course elements below
- Inactivate:    Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise:        Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: ...

Course number:

Course ID:

Course title (max. 100 characters including spaces):

Course short title (max. 30 characters including spaces):

Grading basis: ...

Course credit weight: ...

Course consent required: ...

Course description:

Meet type(s): ... ..

Primary meet type: ...

Delivery mode: ...

Requisites:

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

**Rationale for request:**

*The Office of Academic Integrity and the Library have been working together over the last year to refresh the mandatory Graduate Academic Integrity Module (Graduate AIM) in Learn. The module is now quite robust, with all required information covered in its content. The Faculty of Arts mandatory Academic Integrity Workshop is rendered redundant as a result, and we would like to have that milestone removed.*

*The milestone should be removed from the following programs:*

1. Doctor of Philosophy (PhD) in Accounting
2. Doctor of Philosophy (PhD) in Applied Economics
3. Doctor of Philosophy (PhD) in Applied Economics – Water
4. Doctor of Philosophy (PhD) in Applied Philosophy
5. Doctor of Philosophy (PhD) in English
6. Doctor of Philosophy (PhD) in French Studies
7. Doctor of Philosophy (PhD) in German
8. Doctor of Philosophy (PhD) in Global Governance
9. Doctor of Philosophy (PhD) in History
10. Doctor of Philosophy (PhD) in Philosophy
11. Doctor of Philosophy (PhD) in Psychology
12. Doctor of Philosophy (PhD) in Religious Studies
13. Doctor of Philosophy (PhD) in Sociology
14. Doctor of Philosophy (PhD) in Sociology - Co-operative Program
15. Graduate Diploma (GDip) in Taxation
16. Master of Accounting (MAcc)
17. Master of Applied Science (MASc) in Industrial and Organizational Psychology
18. Master of Applied Science (MASc) in Psychology - Developmental and Communication Science
19. Master of Arts (MA) in Classical Studies
20. Master of Arts (MA) in Economics
21. Master of Arts (MA) in Economics - Co-operative Program
22. Master of Arts (MA) in Economics – Water
23. Master of Arts (MA) in Economics - Water - Co-operative Program
24. Master of Arts (MA) in English - Experimental Digital Media
25. Master of Arts (MA) in English - Experimental Digital Media - Co-operative Program
26. Master of Arts (MA) in English - Literary Studies
27. Master of Arts (MA) in English - Literary Studies - Co-operative Program
28. Master of Arts (MA) in English - Rhetoric and Communication Design
29. Master of Arts (MA) in English - Rhetoric and Communication Design - Co-operative Program
30. Master of Arts (MA) in French Studies
31. Master of Arts (MA) in German
32. Master of Arts (MA) in Global Governance
33. Master of Arts (MA) in History
34. Master of Arts (MA) in Intercultural German Studies

35. Master of Arts (MA) in Philosophy
36. Master of Arts (MA) in Political Science
37. Master of Arts (MA) in Political Science - Co-operative Program
38. Master of Arts (MA) in Psychology
39. Master of Arts (MA) in Public Issues Anthropology
40. Master of Arts (MA) in Social and Legal Studies
41. Master of Arts (MA) in Social and Legal Studies - Co-operative Program
42. Master of Arts (MA) in Sociology
43. Master of Arts (MA) in Sociology - Co-operative Program
44. Master of Digital Experience Innovation (MDEI)
45. Master of Fine Arts (MFA) in Studio Art
46. Master of Peace and Conflict Studies (MPACS)
47. Master of Public Service (MPS)
48. Master of Public Service (MPS) - Co-operative Program
49. Master of Taxation (MTax)
50. Master of Theological Studies (MTS)

**Form completed by:** Trevor Clews, Rita Cherkewski

**Department/School approval date** (mm/dd/yy): 02/18/21

**Reviewed by GSPA** (for GSPA use only)  **date** (mm/dd/yy): 01/20/21

**Faculty approval date** (mm/dd/yy): 03/16/21

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#) and information regarding [major/minor modifications](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty: Arts****Programs:**

1. Doctor of Philosophy (PhD) in Accounting
2. Doctor of Philosophy (PhD) in Applied Economics
3. Doctor of Philosophy (PhD) in Applied Economics – Water
4. Doctor of Philosophy (PhD) in Applied Philosophy
5. Doctor of Philosophy (PhD) in English
6. Doctor of Philosophy (PhD) in French Studies
7. Doctor of Philosophy (PhD) in German
8. Doctor of Philosophy (PhD) in Global Governance
9. Doctor of Philosophy (PhD) in History
10. Doctor of Philosophy (PhD) in Philosophy
11. Doctor of Philosophy (PhD) in Psychology
12. Doctor of Philosophy (PhD) in Religious Studies
13. Doctor of Philosophy (PhD) in Sociology
14. Doctor of Philosophy (PhD) in Sociology - Co-operative Program
15. Graduate Diploma (GDip) in Taxation
16. Master of Accounting (MAcc)
17. Master of Applied Science (MASc) in Industrial and Organizational Psychology
18. Master of Applied Science (MASc) in Psychology - Developmental and Communication Science
19. Master of Arts (MA) in Classical Studies
20. Master of Arts (MA) in Economics
21. Master of Arts (MA) in Economics - Co-operative Program
22. Master of Arts (MA) in Economics – Water
23. Master of Arts (MA) in Economics - Water - Co-operative Program
24. Master of Arts (MA) in English - Experimental Digital Media
25. Master of Arts (MA) in English - Experimental Digital Media - Co-operative Program
26. Master of Arts (MA) in English - Literary Studies
27. Master of Arts (MA) in English - Literary Studies - Co-operative Program
28. Master of Arts (MA) in English - Rhetoric and Communication Design
29. Master of Arts (MA) in English - Rhetoric and Communication Design - Co-operative Program
30. Master of Arts (MA) in French Studies
31. Master of Arts (MA) in German
32. Master of Arts (MA) in Global Governance
33. Master of Arts (MA) in History
34. Master of Arts (MA) in Intercultural German Studies
35. Master of Arts (MA) in Philosophy
36. Master of Arts (MA) in Political Science
37. Master of Arts (MA) in Political Science - Co-operative Program
38. Master of Arts (MA) in Psychology

39. Master of Arts (MA) in Public Issues Anthropology
40. Master of Arts (MA) in Social and Legal Studies
41. Master of Arts (MA) in Social and Legal Studies - Co-operative Program
42. Master of Arts (MA) in Sociology
43. Master of Arts (MA) in Sociology - Co-operative Program
44. Master of Digital Experience Innovation (MDEI)
45. Master of Fine Arts (MFA) in Studio Art
46. Master of Peace and Conflict Studies (MPACS)
47. Master of Public Service (MPS)
48. Master of Public Service (MPS) - Co-operative Program
49. Master of Taxation (MTax)
50. Master of Theological Studies (MTS)

**Program contact name(s):** Anna Esselment, Rita Cherkewski

**Form completed by:** Rita Cherkewski

**Description of proposed changes:**

Note: changes to courses and milestones also require the completion/submission of the [SGRC Graduate Studies Course/Milestone Form](#).

*Removing the “Academic Integrity Workshop” milestone (and any related milestone descriptions) from the degree requirements for all of the graduate programs within the Faculty of Arts.*

**Is this a [major modification](#) to the program?** No

**Rationale for change(s):**

*The Office of Academic Integrity and the Library have been working together over the last year to refresh the mandatory Graduate Academic Integrity Module (Graduate AIM) in Learn. The module is now quite robust, with all required information covered in its content. The Faculty of Arts mandatory Academic Integrity Workshop is rendered redundant as a result, and we would like to have that milestone removed.*

**Proposed effective date:** Term: Spring Year: 2021

**Current [Graduate Studies Academic Calendar \(GSAC\)](#) page** (include the link to the web page where the changes are to be made):

<https://uwaterloo.ca/graduate-studies-academic-calendar/arts>

| <b>Current Graduate Studies Academic Calendar content:</b> | <b>Proposed Graduate Studies Academic Calendar content:</b> |
|--|---|
| <i>Academic Integrity Workshop</i>                         | N/A   |

**How will students currently registered in the program be impacted by these changes?**

*Students who are currently registered (prior to Spring/May 2021) will still have to complete the Academic Integrity Workshop milestone (as well as the Graduate AIM). Students who begin graduate studies after Spring/May 2021 will no longer have to complete the mandatory ARTS Academic Integrity Workshop, and will simply take the Graduate Academic Integrity Module, which essentially covers the same content. We imposed both in the past because the Graduate AIM was not as thorough as our workshop. With the substantial improvements to the module in Learn, students will simply be directed to that module as their Academic Integrity requirement. This will simplify and streamline their obligations regarding Academic Integrity training.*

**Department/School approval date** (mm/dd/yy): 02/18/21

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 01/20/21

**Faculty approval date** (mm/dd/yy): 03/16/21

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

**Senate approval date** (mm/dd/yy) (if applicable):

Faculty: Theology

Effective term: Term/Year Spring 2021

Course  New  Revision  Inactivation

Milestone  New  Revision  Inactivation

New milestone title: Choose an item.

For course revisions, indicate the type(s) of changes: **description, title**  
(e.g. consent, description, title, requisites)

Course Subject code: TS Course number: 619

Course Title (max. 100 characters incl. spaces): The Bible and Peace

Course Short Title (max. 30 characters incl. spaces): The Bible and Peace

Grading Basis: NUMERICAL

Course Credit Weight: 0.50

Course Consent Required:

Course Description: An examination of diverse biblical views of peace in relation to war, justice, and salvation with attention to their relevance for the contemporary quest for peace.

New course description (for revision only): An examination of diverse biblical views of peace and violence with attention to the use of the Bible within both historical and contemporary conflict situations. Topics may include physical violence, economic violence, gender issues, residential schools, ethnic conflict, racism.

**New course title: The Bible, Peace, and Violence**

Meet Type(s): Lecture Choose an item. Choose an item. Choose an item.

Primary Meet Type: Lecture

[Requisites:](#)

Special topics course: Yes  No

Cross-listed: Yes  No

Course Subject(s) to be cross-listed with and approval status: PACS 671

Sections combined/heldwith:

**Rationale for request:**

**Course title and Content revision reflects an approach to biblical scholarship that links to contemporary issues relevant to MTS and PACS students.**

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**GRADUATE STUDIES COMMITTEE REPORT**

**FACULTY OF ENVIRONMENT**

**REPORT TO SENATE GRADUATE AND RESEARCH COUNCIL**

**April 12 2021**

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Faculty: Environment

Effective term: Term/Year Spring Choose an item. 2021

Course  New  Revision  Inactivation

Milestone  New  Revision  Inactivation

New milestone title: Choose an item.

For course revisions, indicate the type(s) of changes: **title, description, requisite**  
(e.g. consent, description, title, requisites)

Course Subject code: GEMCC Course number: 644

Course Title (max. 100 characters incl. spaces): Climate Resilient Canadians and Health Systems

Course Short Title (max. 30 characters incl. spaces): Climate Rslnr Cdns Hlth Systms

Grading Basis: NUMERICAL

Course Credit Weight: 0.50

Course Consent Required:  Choose an item.

Course Description:

This course examines climate-change related health risks to Canadians, including to populations of highest concern - seniors, young children, people with chronic illnesses, the socially and economically disadvantaged, and Indigenous Populations - and the potential for impacts on communities. New tools such as climate change and health vulnerability and adaptation assessments are discussed along with their uses in policy and program development by Canadian and international partners. Guest lectures, case studies and a field trip to meet with climate change decision makers in Ottawa are used to illustrate innovative health adaptation measures and multidisciplinary partnerships being undertaken to build climate resilient health systems. Note: This course involves a combination of lecture, class discussion and activities, student presentations and a multi-day field trip to Ottawa; field trip fee normally \$300+HST; will not exceed \$600+HST. For students unable to attend the field component, an alternative assessment component will be arranged.

New course description (for revision only):

Climate change is a growing threat to the health of Canadians, their communities and health systems. Over two decades of increasing research, partnerships, awareness building and adaptation development among health authorities has demonstrated that significant opportunities exist to make strides in efforts to protect Canadians from current and future impacts. This course examines climate-change related health risks to Canadians, including to populations of highest concern - seniors, young children, people with chronic illnesses, the socially and economically disadvantaged, and Indigenous Populations - and the potential for impacts on communities and health systems. New tools such as climate change and health vulnerability and adaptation assessments and health system stress testing are discussed along with their application to policy and program development by Canadian and international partners. Guest lectures and case studies are used to illustrate

and learn from the actions of leading health adaptors in efforts being taken to prepare people for the future climate.

Meet Type(s): Lecture Choose an item. Choose an item. Choose an item.

Primary Meet Type: Lecture

[Requisites:](#)

Antireq: GEOG 675 Tpc 223 and GEOG 694 Tpc 2

Only offered Online

Special topics course: Yes  No

Cross-listed: Yes  No

Course Subject(s) to be cross-listed with and approval status:

Sections combined/heldwith:

**Rationale for request:**

To updated course name and description.

To add 'Only offered Online' to the requisite section; the course is being redeveloped to be delivered in an online only format.

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Prepared by: Teresa Wilson

Date: 26-Jun-20

Prior to form submission, review the [content revision instructions](#) and information regarding [major/minor modifications](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Environment

**Program:** Master of Climate Change (MCC)

**Program contact name(s):** Dan Scott

**Form completed by:** Teresa Wilson

**Description of proposed changes:**

Note: changes to courses and milestones also require the completion/submission of the [SGRC Graduate Studies Course/Milestone Form](#).

*To add a GEMCC course to the list of designated climate change courses – GEMCC 690 Climate Change Projects.*

*To change the course title of GEMCC 644 (a designated climate change course) to Climate Resilient Canadians and Health Systems.*

*To add '0.50 unit weight per course' details for further clarity.*

Is this a [major modification](#) to the program? No

**Rationale for change(s):**

*A course add form was previously submitted to add GEMCC 690. This program revision template is to update the program information section of the Graduate Studies Academic Calendar.*

*A course revision form was previously submitted to change the course title of GEMCC 644. This program revision template is to update the course title in the program information section of the Graduate Studies Academic Calendar.*

*To add '0.50 unit weight per course' details for further clarity especially for students deciding on open elective course options outside of the department.*

**Proposed effective date:** Term: Spring Year: 2021

**Current [Graduate Studies Academic Calendar \(GSAC\)](#) page** (include the link to the web page where the changes are to be made):

<https://uwaterloo.ca/graduate-studies-academic-calendar/environment/department-geography-and-environmental-management/master-climate-change-mcc>

| Current Graduate Studies Academic Calendar content: | Proposed Graduate Studies Academic Calendar content: |
|---|--|
| Degree requirements                                 | Degree requirements                                  |

| Current Graduate Studies Academic Calendar content:   | Proposed Graduate Studies Academic Calendar content:  |
|---|---|
| <p><b>Master's Research Paper option:</b></p> <ul style="list-style-type: none"> <li>• <b>Courses</b> <ul style="list-style-type: none"> <li>○ 3 required courses:           <ul style="list-style-type: none"> <li>▪ GEMCC 601 Climate Change: Physical Science Basis</li> <li>▪ GEMCC 602 Climate Change Vulnerability and Adaptation</li> <li>▪ GEMCC 603 Climate Change Mitigation</li> </ul> </li> <li>○ 2 climate change electives:           <ul style="list-style-type: none"> <li>▪ Students are able to tailor their program of study based on their individual interests by completing 2 climate change designated electives which can be chosen from, but are not limited to, the following list. The availability of climate change designated electives varies year-to-year, including newly approved courses.               <ul style="list-style-type: none"> <li>▪ GEMCC 610 Climate Prediction, Modeling and Scenarios</li> <li>▪ GEMCC 620 Climate Data and Analytics</li> <li>▪ GEMCC 622 Climate Change, Natural Hazards and Disaster Risk Reduction</li> <li>▪ GEMCC 630 Land Use and the Carbon Cycle</li> <li>▪ GEMCC 640 Climate Change Governance: From Global Treaties to Local Innovation</li> <li>▪ GEMCC 644 <del>Climate Change and the Health of Canadians</del></li> <li>▪ GEMCC 650 Business and Climate Change</li> <li>▪ GEMCC 652 Climate Change and Community Planning</li> <li>▪ GEMCC 660 Carbon Accounting and Management</li> </ul> </li> </ul> </li> <li>○ 2 open electives chosen from the climate change designated electives list, partnering programs within the Faculty of Environment (that are willing to allow the student to enroll in a</li> </ul> </li> </ul> | <p><b>Master's Research Paper option:</b></p> <ul style="list-style-type: none"> <li>• <b>Courses</b> <ul style="list-style-type: none"> <li>○ <u>Students must successfully complete the following graduate level courses (0.50 unit weight per course):</u></li> <li>○ 3 required courses:           <ul style="list-style-type: none"> <li>▪ GEMCC 601 Climate Change: Physical Science Basis</li> <li>▪ GEMCC 602 Climate Change Vulnerability and Adaptation</li> <li>▪ GEMCC 603 Climate Change Mitigation</li> </ul> </li> <li>○ 2 climate change electives:           <ul style="list-style-type: none"> <li>▪ Students are able to tailor their program of study based on their individual interests by completing 2 climate change designated electives which can be chosen from, but are not limited to, the following list. The availability of climate change designated electives varies year-to-year, including newly approved courses.               <ul style="list-style-type: none"> <li>▪ GEMCC 610 Climate Prediction, Modeling and Scenarios</li> <li>▪ GEMCC 620 Climate Data and Analytics</li> <li>▪ GEMCC 622 Climate Change, Natural Hazards and Disaster Risk Reduction</li> <li>▪ GEMCC 630 Land Use and the Carbon Cycle</li> <li>▪ GEMCC 640 Climate Change Governance: From Global Treaties to Local Innovation</li> <li>▪ GEMCC 644 <u>Climate Resilient Canadians and Health Systems</u></li> <li>▪ GEMCC 650 Business and Climate Change</li> <li>▪ GEMCC 652 Climate Change and Community Planning</li> <li>▪ GEMCC 660 Carbon Accounting and Management</li> <li>▪ <u>GEMCC 690 Climate Change Projects</u></li> </ul> </li> </ul> </li> </ul> </li> </ul> |

| Current Graduate Studies Academic Calendar content:  | Proposed Graduate Studies Academic Calendar content:  |
|--|---|
| <p>course), and graduate programs offered by other Faculties (that are willing to allow the student to enroll in a course).</p> <ul style="list-style-type: none"> <li>○ Failure to maintain a course average of at least 75% will result in an automatic review of the student's status in the program. The review committee will consist of the Program Director and the Graduate Officer. The review committee may require that the student withdraw from the program.</li> </ul> <p><b>Coursework option:</b></p> <ul style="list-style-type: none"> <li>• <b>Courses</b> <ul style="list-style-type: none"> <li>○ 3 required courses:           <ul style="list-style-type: none"> <li>▪ GEMCC 601 Climate Change: Physical Science Basis</li> <li>▪ GEMCC 602 Climate Change Vulnerability and Adaptation</li> <li>▪ GEMCC 603 Climate Change Mitigation</li> </ul> </li> <li>○ 2 climate change electives:           <ul style="list-style-type: none"> <li>▪ Students are able to tailor their program of study based on their individual interests by completing 2 climate change designated electives which can be chosen from, but are not limited to, the following list. The availability of climate change designated electives varies year-to-year, including newly approved courses.               <ul style="list-style-type: none"> <li>▪ GEMCC 610 Climate Prediction, Modeling and Scenarios</li> <li>▪ GEMCC 620 Climate Data and Analytics</li> <li>▪ GEMCC 622 Climate Change, Natural Hazards and Disaster Risk Reduction</li> <li>▪ GEMCC 630 Land Use and the Carbon Cycle</li> <li>▪ GEMCC 640 Climate Change Governance: From Global Treaties to Local Innovation</li> <li>▪ GEMCC 644 Climate Change and the Health of Canadians</li> </ul> </li> </ul> </li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>○ 2 open electives chosen from the climate change designated electives list, partnering programs within the Faculty of Environment (that are willing to allow the student to enroll in a course), and graduate programs offered by other Faculties (that are willing to allow the student to enroll in a course).</li> <li>○ Failure to maintain a course average of at least 75% will result in an automatic review of the student's status in the program. The review committee will consist of the Program Director and the Graduate Officer. The review committee may require that the student withdraw from the program.</li> </ul> <p><b>Coursework option:</b></p> <ul style="list-style-type: none"> <li>• <b>Courses</b> <ul style="list-style-type: none"> <li>○ <u>Students must successfully complete the following graduate level courses (0.50 unit weight per course):</u></li> <li>○ 3 required courses:           <ul style="list-style-type: none"> <li>▪ GEMCC 601 Climate Change: Physical Science Basis</li> <li>▪ GEMCC 602 Climate Change Vulnerability and Adaptation</li> <li>▪ GEMCC 603 Climate Change Mitigation</li> </ul> </li> <li>○ 2 climate change electives:           <ul style="list-style-type: none"> <li>▪ Students are able to tailor their program of study based on their individual interests by completing 2 climate change designated electives which can be chosen from, but are not limited to, the following list. The availability of climate change designated electives varies year-to-year, including newly approved courses.               <ul style="list-style-type: none"> <li>▪ GEMCC 610 Climate Prediction, Modeling and Scenarios</li> <li>▪ GEMCC 620 Climate Data and Analytics</li> <li>▪ GEMCC 622 Climate Change, Natural Hazards and Disaster Risk Reduction</li> </ul> </li> </ul> </li> </ul> </li> </ul> |

| Current Graduate Studies Academic Calendar content:  | Proposed Graduate Studies Academic Calendar content:  |
|--|---|
| <ul style="list-style-type: none"> <li>▪ GEMCC 650 Business and Climate Change</li> <li>▪ GEMCC 652 Climate Change and Community Planning</li> <li>▪ GEMCC 660 Carbon Accounting and Management</li> <li>○ 2 open electives chosen from the climate change designated electives list, partnering programs within the Faculty of Environment (that are willing to allow the student to enroll in a course), and graduate programs offered by other Faculties (that are willing to allow the student to enroll in a course).</li> <li>○ Failure to maintain a course average of 75% or better results in an automatic review of the student's status in the program. The review committee will consist of the Program Director and the Graduate Officer. The review committee may require that the student withdraw from the program.</li> </ul> | <ul style="list-style-type: none"> <li>▪ GEMCC 630 Land Use and the Carbon Cycle</li> <li>▪ GEMCC 640 Climate Change Governance: From Global Treaties to Local Innovation</li> <li>▪ GEMCC 644 <u>Climate Resilient Canadians and Health Systems</u></li> <li>▪ GEMCC 650 Business and Climate Change</li> <li>▪ GEMCC 652 Climate Change and Community Planning</li> <li>▪ GEMCC 660 Carbon Accounting and Management</li> <li>▪ <u>GEMCC 690 Climate Change Projects</u></li> <li>○ 2 open electives chosen from the climate change designated electives list, partnering programs within the Faculty of Environment (that are willing to allow the student to enroll in a course), and graduate programs offered by other Faculties (that are willing to allow the student to enroll in a course).</li> <li>○ Failure to maintain a course average of 75% or better results in an automatic review of the student's status in the program. The review committee will consist of the Program Director and the Graduate Officer. The review committee may require that the student withdraw from the program.</li> </ul> |

**How will students currently registered in the program be impacted by these changes?**

*No impact.*

**Department/School approval date (mm/dd/yy):** 01/29/21

**Reviewed by GSPA (for GSPA use only)  date (mm/dd/yy):** 02/03/21

**Faculty approval date (mm/dd/yy):** 03/25/2021

**Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):**

**Senate approval date (mm/dd/yy) (if applicable):**

Prior to form submission, review the [content revision instructions](#) and information regarding [major/minor modifications](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Environment

**Program:** Graduate Diploma (GDip) in Climate Risk Management

**Program contact name(s):** Dan Scott

**Form completed by:** Teresa Wilson

**Description of proposed changes:**

Note: changes to courses and milestones also require the completion/submission of the [SGRC Graduate Studies Course/Milestone Form](#).

*To change the course title of GEMCC 644 to Climate Resilient Canadians and Health Systems.*

Is this a [major modification](#) to the program? No

**Rationale for change(s):**

*A course revision form has been submitted to change the course title of GEMCC 644. This program revision template is to update the course title in the program information section of the Graduate Studies Academic Calendar.*

**Proposed effective date:** Term: Spring Year: 2021

**Current [Graduate Studies Academic Calendar \(GSAC\)](#) page** (include the link to the web page where the changes are to be made):

<https://uwaterloo.ca/graduate-studies-academic-calendar/environment/department-geography-and-environmental-management/graduate-diploma-gdip-climate-risk-management-direct-entry>

| Current Graduate Studies Academic Calendar content:  | Proposed Graduate Studies Academic Calendar content:   |
|--|--|
| <p><b>Degree requirements</b><br/><b>Coursework option:</b></p> <ul style="list-style-type: none"> <li>• <b>Courses</b> <ul style="list-style-type: none"> <li>○ Students must complete 4 courses from the following list:           <ul style="list-style-type: none"> <li>▪ GEMCC 600 Fundamentals of Climate Change</li> <li>▪ GEMCC 620 Climate Data and Analytics</li> <li>▪ GEMCC 644 <del>Climate Change and the Health of Canadians</del></li> </ul> </li> </ul> </li> </ul> | <p><b>Degree requirements</b><br/><b>Coursework option:</b></p> <ul style="list-style-type: none"> <li>• <b>Courses</b> <ul style="list-style-type: none"> <li>○ Students must complete 4 courses from the following list:           <ul style="list-style-type: none"> <li>▪ GEMCC 600 Fundamentals of Climate Change</li> <li>▪ GEMCC 620 Climate Data and Analytics</li> <li>▪ GEMCC 644 <u>Climate Resilient Canadians and Health Systems</u></li> </ul> </li> </ul> </li> </ul> |

| Current Graduate Studies Academic Calendar content:   | Proposed Graduate Studies Academic Calendar content:  |
|---|---|
| <ul style="list-style-type: none"> <li>▪ GEMCC 650 Business and Climate Change</li> <li>▪ GEMCC 652 Climate Change and Community Planning</li> <li>▪ GEMCC 660 Carbon Accounting and Management</li> <li>○ GEMCC 600 Fundamentals of Climate Change is required unless students can demonstrate equivalent competence (e.g. through undergraduate climate change courses and/or equivalent professional experience).</li> <li>○ Students must pass all courses with a minimum 60%. Additionally, in accordance with Faculty of Environment graduate-level coursework requirements, students must obtain a minimum average of 70% across all 4 courses.</li> </ul> | <ul style="list-style-type: none"> <li>▪ GEMCC 650 Business and Climate Change</li> <li>▪ GEMCC 652 Climate Change and Community Planning</li> <li>▪ GEMCC 660 Carbon Accounting and Management</li> <li>○ GEMCC 600 Fundamentals of Climate Change is required unless students can demonstrate equivalent competence (e.g. through undergraduate climate change courses and/or equivalent professional experience).</li> <li>○ Students must pass all courses with a minimum 60%. Additionally, in accordance with Faculty of Environment graduate-level coursework requirements, students must obtain a minimum average of 70% across all 4 courses.</li> </ul> |

**How will students currently registered in the program be impacted by these changes?**

*No impact.*

**Department/School approval date (mm/dd/yy):** 01/29/21

**Reviewed by GSPA (for GSPA use only)  date (mm/dd/yy):** 02/03/21

**Faculty approval date (mm/dd/yy):** 03/25/2021

**Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):**

**Senate approval date (mm/dd/yy) (if applicable):**

## MEMORANDUM

TO: Kathy Winter, Secretary, Senate Graduate and Research Council

FROM: Tracy Taves, Faculty Graduate Administrator, Health

cc: Brian Laird, Associate Dean, Graduate Studies

DATE: March 4, 2021

SUBJECT: **Health Faculty Graduate Studies Committee (FGSC) Report to Senate Graduate and Research Council**

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The attached report was approved by the Health Faculty Council on March 4, 2021 (e-vote), was reviewed by Trevor Clews and is now being forwarded to Senate Graduate & Research Council for inclusion on the agenda for the next meeting.

Thank you!

General summary for the following motions from Brian Laird:

Altogether, these motions from the School of Public Health and Health Systems and the Department of Kinesiology describe a series of course changes (e.g., updating pre-requisites; changing weighting) for a total of 10 graduate courses. In addition, it includes a motion to inactivate a graduate course that has been replaced within the graduate curricula of the School of Public Health and Health Systems. All details regarding these motions and their rationale are included within the attached document.

**From:** Health Faculty Council (March 4, 2021; e-vote)

**To:** Senate Graduate Research Council

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## Graduate calendar changes for Faculty of Health (January 18, 2021)

### 1. COURSE CHANGES

#### 1.1 School of Public Health and Health Systems\* effective Spring 2021

- 1.1.1 **Motion:** To add HLTH 604 as a prerequisite for **HLTH 623** (Risk and Exposure Assessment in Public Health).
- 1.1.2 **Motion:** To add HLTH 604 as a prerequisite for **HLTH 624** (Environmental Toxicology in Public Health).
- 1.1.3 **Motion:** To add HLTH 606B or HLTH 606A as prerequisites for **HLTH 631** (Public Health Surveillance).
- 1.1.4 **Motion:** To add HLTH 604 as a prerequisite for **HLTH 635** (Public Health, Environment and Planning).
- 1.1.5 **Motion:** To add HLTH 606B or HLTH 606A as prerequisites for **HLTH 636** (Applied Epidemiology: Advanced Concepts and Applications for Public Health).
- 1.1.6 **Motion:** To add HLTH 613 as a prerequisite for **HLTH 637** (Public Health Informatics).
- 1.1.7 **Motion:** To add HLTH 614 or HLTH 604 as prerequisites for **HLTH 651** (Theory and Applications in Program Evaluation).

**Rationale:** The seven courses are being updated for consistency. PHS courses became HLTH courses and we want to ensure the GSAC course catalog reflects both subject codes to ensure coding in the system is accurate (and doesn't block students if they have the appropriate prerequisite) and communications are clear (so that students can determine if they have the correct prerequisite).

## Graduate calendar changes for Faculty of Health (February 12, 2021)

### 1. COURSE CHANGES

#### 1.1 School of Public Health and Health Systems\* effective Spring 2021

- 1.1.1 **Motion:** To revise **HLTH 628** (What is Fair? International Perspectives on Equity in Work) to remove current prerequisites.

**Rationale:** Current prerequisites (SPHHS Master's or Doctoral students only) are not required and we would like them to be removed. This is the only change being made to this course. Meet types, delivery mode, course titles and numbers are not being changed, we're dropping prerequisites only.

#### 1.2 Kinesiology\* effective Fall 2021

- 1.2.1 **Motion:** To revise credit weight of **KIN 601** (Skeletal Muscle Physiology) from 0.25 to 0.50.

**Rationale:** KIN 601 serves as a core fundamental muscle physiology course that provides important foundational knowledge that prepares students for further graduate courses in muscle metabolism, exercise physiology and disease. It isn't possible to cover sufficient content related to the fundamentals of muscle structure, function, and metabolism in a 0.25 credit weight course so it is necessary to change the course credit weight for KIN 601 to 0.50 credit weight (as it used to be).

1.2.2 **Motion:** To revise credit weight of **KIN 603** (Cardiac and Vascular Smooth Muscle Physiology) from 0.25 to 0.50.

**Rationale:** KIN 603 provides students with fundamental knowledge of cardiac and vascular physiology. KIN 603 was initially designed to provide foundational knowledge that prepares students for further graduate courses related to cardiovascular disease and other cardiac and vascular pathologies. However, offering KIN 603 as a 6-week, 0.25 credit course does not allow sufficient time to cover breadth of content related to fundamental cardiovascular physiology. Thus, it is necessary to change KIN 603 to a 12-week, 0.50 credit course to cover the appropriate breadth and depth of material.

## **2. COURSE INACTIVATIONS**

### **2.1 School of Public Health and Health Systems\* effective Spring 2021**

2.1.1 **Motion:** To inactivate **HLTH 605A** (Survey Research Methods).

**Rationale:** A 'new' HLTH 605A (Regression Models) was added to our catalog of courses in the calendar. It was an oversight not to inactivate the 'old' 605A.

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Applied Health Sciences

**Effective date:** Term: Spring Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):  
Requisites: adding HLTH 604 as a prerequisite.

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: HLTH

Course number: 623

Course ID: 012534

Course title (max. 100 characters including spaces): Risk and Exposure Assessment in Public Health

Course short title (max. 30 characters including spaces): Risk Exposure Assessment

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description: Methods used to assess human health risks associated with biological, chemical and physical exposures in the environment, focusing on hazard identification, dose-response assessment, exposure assessment, and risk characterization. The course examines the strengths and weaknesses of various types of risk assessment approaches, the inherent uncertainties in each stage of risk assessment, and the interactive role of risk assessment and risk management in public health decision-making. Course open to MPH students. Others may be admitted with consent of instructor.

Meet type(s): Lecture \_ \_ \_

Primary meet type: Lecture

Delivery mode: On-campus and also offered online

Requisites: SPHHS students only; Prereq: PHS 604 or HLTH 604; Also offered Online

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status: n/a

Sections combined/held with: n/a

**Rationale for request:**

Updating for consistency. PHS courses became HLTH courses and we want to ensure the GSAC course catalog reflects both subject codes to ensure coding in the system is accurate (and doesn't block students if they have the appropriate prerequisite) and communications are clear (so that students can determine if they have the correct prerequisite).

**Form completed by:** Melissa Santo

**Department/School approval date** (12/15/20)

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 10/27/20

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Applied Health Sciences

**Effective date:** Term: Spring Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):  
Requisites: adding HLTH 604 as a prerequisite.

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: HLTH

Course number: 624

Course ID: 012535

Course title (max. 100 characters including spaces): Environmental Toxicology in Public Health

Course short title (max. 30 characters including spaces): Environmental Toxicology

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description: Introduction to the underlying principles governing the interactions of foreign chemicals with biological systems, including a description of the human health effects that can occur as a result of chemico-biological interactions in the environment. Course open to MPH students. Others may be admitted with consent of instructor.

Meet type(s): Lecture \_ \_ \_

Primary meet type: Lecture

Delivery mode: On-campus and also offered online

Requisites: SPHHS students only; Prereq: PHS 604 or HLTH 604; Also offered Online

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status: n/a

Sections combined/held with: n/a

**Rationale for request:**

Updating for consistency. PHS courses became HLTH courses and we want to ensure the GSAC course catalog reflects both subject codes to ensure coding in the system is accurate (and doesn't block students if they have the appropriate prerequisite) and communications are clear (so that students can determine if they have the correct prerequisite).

**Form completed by:** Tanveer Randhawa, under supervision of Michelle Fluit

**Department/School approval date** (12/15/20)

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 01/08/21

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Applied Health Sciences

**Effective date:** Term: Spring Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):  
Requisites: adding HLTH 604 as a prerequisite.

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: HLTH

Course number: 635

Course ID: 012540

Course title (max. 100 characters including spaces): Public Health, Environment and Planning

Course short title (max. 30 characters including spaces): Environment and Planning

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description: An exploration of the complex set of relationships among public health, environment and planning at the community and global levels. Topics covered include the concept of sustainable development and how it relates to public health.

Meet type(s): Lecture \_ \_ \_

Primary meet type: Lecture

Delivery mode: On-campus and also offered online

Requisites: SPHHS students only; Prereq: PHS 604 or HLTH 604; Also offered Online

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status: n/a

Sections combined/held with: n/a

**Rationale for request:**

Updating for consistency. PHS courses became HLTH courses and we want to ensure the GSAC course catalog reflects both subject codes to ensure coding in the system is accurate (and doesn't block students if they have the appropriate prerequisite) and communications are clear (so that students can determine if they have the correct prerequisite).

**Form completed by:** Tanveer Randhawa, under supervision of Michelle Fluit

**Department/School approval date** (12/15/20)

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 01/08/21

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Applied Health Sciences

**Effective date:** Term: Spring Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):  
Requisites: adding HLTH 606B or HLTH 606A as prerequisites.

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: HLTH

Course number: 631

Course ID: 012536

Course title (max. 100 characters including spaces): Public Health Surveillance

Course short title (max. 30 characters including spaces): Public Health Surveillance

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description: Fundamental principles of public health surveillance and monitoring, describe the source of public health data in Canada and other countries. Topics covered include forecasting, information management and organization, and technological innovations for assessment, evaluation and program delivery.

Meet type(s): Lecture \_ \_ \_

Primary meet type: Lecture

Delivery mode: On-campus and also offered online

Requisites: SPHHS students only; Prereq: PHS 606 or HSG 606 or HLTH 606B or HLTH 606A; Also offered Online

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status: n/a

Sections combined/held with: n/a

**Rationale for request:**

Updating for consistency. PHS courses became HLTH courses and we want to ensure the GSAC course catalog reflects both subject codes to ensure coding in the system is accurate (and doesn't block students if they have the appropriate prerequisite) and communications are clear (so that students can determine if they have the correct prerequisite).

**Form completed by:** Tanveer Randhawa, under supervision of Michelle Fluit

**Department/School approval date** (12/15/20)

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 01/08/21

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Applied Health Sciences

**Effective date:** Term: Spring Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):  
Requisites: adding HLTH 606B or HLTH 606A as prerequisites.

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: HLTH

Course number: 636

Course ID: 012541

Course title (max. 100 characters including spaces): Applied Epidemiology: Advanced Concepts and Applications for Public Health

Course short title (max. 30 characters including spaces): Applied Epidemiology

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description: This course employs a case-study approach to demonstrate methods for investigation and control of communicable disease outbreaks and clusters of chronic diseases and injuries. Course open to MPH students. Others may be admitted with consent of instructor.

Meet type(s): Lecture \_ \_ \_

Primary meet type: Lecture

Delivery mode: On-campus and also offered online

Requisites: SPHHS students only; Prereq: PHS 606 or HSG 606 or HLTH 606B or HLTH 606A; Also offered Online

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status: n/a

Sections combined/held with: n/a

**Rationale for request:**

Updating for consistency. PHS courses became HLTH courses and we want to ensure the GSAC course catalog reflects both subject codes to ensure coding in the system is accurate (and doesn't block students if they have the appropriate prerequisite) and communications are clear (so that students can determine if they have the correct prerequisite).

**Form completed by:** Tanveer Randhawa, under supervision of Michelle Fluit

**Department/School approval date** (12/15/20)

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 01/08/21

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Applied Health Sciences

**Effective date:** Term: Spring Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):  
Requisites: adding HLTH 613 as a prerequisite.

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: HLTH

Course number: 637

Course ID: 012542

Course title (max. 100 characters including spaces): Public Health Informatics

Course short title (max. 30 characters including spaces): Public Health Informatics

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description: This course examines the application of information technologies and information systems in public health practice. Selected topics include managing information to deliver value; data standards in public health; privacy, confidentiality and security in public health; surveillance systems, informatics of toxicology and environmental public health. Course open to MPH students. Others may be admitted with consent of instructor.

Meet type(s): Lecture \_ \_ \_

Primary meet type: Lecture

Delivery mode: On-campus and also offered online

Requisites: SPHHS students only; Prereq: PHS 613 or HLTH 613; Also offered Online

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status: n/a

Sections combined/held with: n/a

**Rationale for request:**

Updating for consistency. PHS courses became HLTH courses and we want to ensure the GSAC course catalog reflects both subject codes to ensure coding in the system is accurate (and doesn't block students if they have the appropriate prerequisite) and communications are clear (so that students can determine if they have the correct prerequisite).

**Form completed by:** Tanveer Randhawa, under supervision of Michelle Fluit

**Department/School approval date** (12/15/20)

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 01/08/21

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Applied Health Sciences

**Effective date:** Term: Spring Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):  
Requisites: adding HLTH 614 or HLTH 604 as prerequisites.

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: HLTH

Course number: 651

Course ID: 015072

Course title (max. 100 characters including spaces): Theory and Applications in Program Evaluation

Course short title (max. 30 characters including spaces): Theory and Applications in Program Evaluation

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description: An advanced program and policy evaluation course that provides theoretical knowledge, skills, and application of program evaluation approaches, including organizational and program planning. A more in-depth coverage of topics will be presented, including case studies and the understanding and use of program and policy intervention theory. This includes the creation of logic models, the identification of the purpose of the evaluation, the development of an appropriate evaluation design, and consideration of factors associated with knowledge use.

Meet type(s): Lecture \_ \_ \_

Primary meet type: Lecture

Delivery mode: On-campus and also offered online

Requisites: SPHHS students only; Prereq: PHS 614 or HSG 604 or HLTH 614 or HLTH 604; Also offered Online

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status: n/a

Sections combined/held with: n/a

**Rationale for request:**

Updating for consistency. PHS courses became HLTH courses and we want to ensure the GSAC course catalog reflects both subject codes to ensure coding in the system is accurate (and doesn't block students if they have the appropriate prerequisite) and communications are clear (so that students can determine if they have the correct prerequisite).

**Form completed by:** Tanveer Randhawa, under supervision of Michelle Fluit

**Department/School approval date** (12/15/20)

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 01/08/21

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Applied Health Sciences

**Effective date:** Term: Spring Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):

Removing the "SPHHS Master's or Doctoral students only" from the course  
Prerequisite

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: HLTH

Course number: 628

Course ID: 016021

Course title (max. 100 characters including spaces): What is Fair? International Perspectives on Equity in Work and Health

Course short title (max. 30 characters including spaces): International Work and Health

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description: The aim of this course is to increase knowledge about health equity from an international perspective, by focusing on the field of work and health. This is an international on-line course, co-taught by Canadian and Swedish instructors, that gives students the experience of working on comparative policy and practice assignments and projects with peers at international universities. Some assignments differ for MSc and

PhD students. The assignments address concepts of social determinants of health, intersectionality, and equity as they relate to healthy work environment factors.

Meet type(s): Lecture \_ \_ \_

Primary meet type: Lecture

Delivery mode: On-campus

Requisites: None.

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

**Rationale for request:**

Current prerequisites (SPHHS Master's or Doctoral students only) are not required and we'd like them to be removed. This is the only change being made to this course. Meet types, delivery mode, course titles and numbers are not being changed, we're dropping prerequisites only.

**Form completed by:** Brian Mills

**Department/School approval date** (01/19/21):

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 12/18/20

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Applied Health Sciences

**Effective date:** Term: Fall Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):

Changing the Course credit weight from 0.25 to 0.50.

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: KIN

Course number: 601

Course ID: 001745

Course title (max. 100 characters including spaces): Skeletal Muscle Physiology: Structure & Function

Course short title (max. 30 characters including spaces): Skeletal Muscle Physiology

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description: An analysis of the morphological, biophysical, molecular, and physiological properties of skeletal muscle. Topics range from the molecular regulation of skeletal muscle contraction, excitation-contraction processes, and cell signaling.

Meet type(s): Lecture \_ \_ \_

Primary meet type: Lecture

Delivery mode: On-campus

Requisites: N/A

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

**Rationale for request:**

KIN 601 serves as a core fundamental muscle physiology course that provides important foundational knowledge that prepares students for further graduate courses in muscle metabolism, exercise physiology and disease. It isn't possible to cover sufficient content related to the fundamentals of muscle structure, function, and metabolism in a 0.25 credit weight course thus, it is necessary to change KIN 601 to a 12 week, 0.50 credit course to cover the appropriate breadth and depth of material (as it used to be).

**Form completed by:** D. Hay/R. Tupling

**Department/School approval date** (mm/dd/yy): 02/05/21

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 02/02/21

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Applied Health Sciences

**Effective date:** Term: Fall Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):

Changing the Course credit weight from 0.25 to 0.50.

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: KIN

Course number: 603

Course ID: 015879

Course title (max. 100 characters including spaces): Cardiac and Vascular Smooth Muscle Physiology

Course short title (max. 30 characters including spaces): Cardiovascular Physiology

Grading basis: NUMERICAL

Course credit weight: 0.50

Course consent required: NOT REQUIRED

Course description: An analysis of the morphological, biophysical, molecular, and physiological properties of cardiac, and vascular smooth muscle. Topics range from the molecular regulation of cardiac muscle contraction, excitation-contraction processes, regulation of vascular smooth muscle tone, and cell signaling. Contraction processes, and cell signaling.

Meet type(s): LECTURE CHOOSE AN ITEM. CHOOSE AN ITEM. CHOOSE AN ITEM.

Primary meet type: LECTURE

Delivery mode: ON-CAMPUS

Requisites: N/A

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

**Rationale for request:**

KIN 603 provides students with fundamental knowledge of cardiac and vascular physiology. KIN 603 was initially designed to provide foundational knowledge that prepares students for further graduate courses related to cardiovascular disease and other cardiac and vascular pathologies. However, offering KIN 603 as a 6 week, 0.25 credit course does not allow sufficient time to cover breadth of content related to fundamental cardiovascular physiology. Thus, it is necessary to change KIN 603 to a 12 week, 0.50 credit course to cover the appropriate breadth and depth of material.

**Form completed by:** D. Hay/C. Vigna

**Department/School approval date** (mm/dd/yy): 02/05/21

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 02/02/21

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Applied Health Sciences

**Effective date:** Term: Spring Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: ...
- Inactivate: ...
- Revise: from ... to ...

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: HLTH

Course number: 605A

Course ID: 010534

Course title (max. 100 characters including spaces): Survey Research Methods

Course short title (max. 30 characters including spaces):

Grading basis: ...

Course credit weight: ...

Course consent required: ...

Course description:

Meet type(s): ...

Primary meet type: ...

Delivery mode: ...

Requisites:

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

**Rationale for request:** A 'new' HLTH 605A (Regression Models) was added to our catalog of courses in the calendar. It was an oversight not to inactivate the 'old' 605A.

**Form completed by:** Brian Mills

**Department/School approval date** (12/15/20):

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 01/25/21

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

## Motions from Math Faculty

### **i. Combinatorics & Optimization**

Motion to make calendar changes in order to update the following courses' descriptions: CO 685 and CO 687.

Pages 3-6

### **ii. Computer Science**

Motions to make calendar changes for the following:

- 1) Allow MDSAI students to enrol in CS 638
- 2) Add CS 794 to the "Table of categories and areas of courses" under the areas of "Scientific and Symbolic Computing" and "Computational Statistics"
- 3) Remove the Graduate Record Examination (GRE) General test statement for all CS programs

Pages 7 - 17

**iii. MMT** Motion to make calendar changes for the following:

- 1) Minimum course grade requirement and frequency with which student performance is assessed to reflect current practice.
- 2) For MATH 674: removing department consent and adding corequisites of MATH 600 and MATH 692

Pages 18 – 22

### **iv. Pure Mathematics**

- 1) Motion to update the Master's Research Paper milestone description in the Calendar to identify the review process for MMath in Pure Mathematics MMath in Pure Mathematics - Quantum Information.
- 2) Motion to make a calendar change due to the "Comprehensive Examination" milestone being changed to the "Qualifying Examination" milestone.

Pages 23 – 28

### **v. Statistics and Actuarial Science**

Motions to approve:

- 1) Inactivation of ActSc 833 and Stat 837
- 2) New course activation ActSc 854 (Longevity and Mortality using Predictive Analytics)
- 3) New course activation Stat 940 (Deep Learning)
- 4) Course name change and description update in ActSc 855.

Pages 29 – 36



**MATHEMATICS FACULTY COUNCIL**  
**-- Faculty Council Agenda**

**Tuesday February 23, 2021**  
**3:30 – 5:00 PM**  
**Remote meeting via Webex**

1. Minutes of the Faculty Council meeting held November 17, 2020 (attached)
2. Report from the Associate Dean, Undergraduate Studies - B. Charbonneau (attached)

Motions to be voted upon:

Motion group 1. Updates

- 1.1 Release of Exams Update

Motion group 2. New Courses

- 2.1. CS 346 Report #88 (Dec. 7th 2020)

Motion group 2. Course Changes

- 3.1. CS 383 Report #88 (Dec 7th 2020)
- 3.2. Math 237/247 #88 (Dec 7th 2020)
- 3.3. COMM 432 #87 (Jan 25th 2021)

Motion group 4. Plan Changes

- 4.1. Computational Fine Arts Specialization (Dec. 7th 2020)
- 4.2. Human-Computer Interaction (HCI) Specialization (Dec. 7th 2020)
- 4.3. Software Engineering (SE) Specialization (Dec. 7th 2020)
- 4.4. Mathematics/Information Tech. Management (Jan. 25th 2021)
- 4.5. Mathematics/Business Administration 9Jan 25th 2021)

3. Report from the Associate Dean, Graduate Studies - A. Kolkiewicz (attached)

Motions to be voted upon:

i. Combinatorics & Optimization

Motion to make calendar changes in order to update the following courses' descriptions: CO 685 and CO 687.

ii. Computer Science

Motions to make calendar changes for the following:

- 1) Allow MDSAI students to enrol in CS 638
- 2) Add CS 794 to the "Table of categories and areas of courses" under the areas of "Scientific and Symbolic Computing" and "Computational Statistics"
- 3) Remove the Graduate Record Examination (GRE) General test statement for all CS programs

iii. MMT

2021-02-02

Mathematics Faculty Council Agenda  
<https://uwaterloo.ca/math/faculty-and-staff/faculty-council>

Page 1 of 2

Motion to make calendar changes for the following:

- 1) Minimum course grade requirement and frequency with which student performance is assessed to reflect current practice.
- 2) For MATH 674: removing department consent and adding corequisites of MATH 600 and MATH 692

iv. Pure Mathematics

- 1) Motion to update the Master's Research Paper milestone description in the Calendar to identify the review process for MMath in Pure Mathematics MMath in Pure Mathematics - Quantum Information.
- 2) Motion to make a calendar change due to the "Comprehensive Examination" milestone being changed to the "Qualifying Examination" milestone.

v. Statistics and Actuarial Science

Motions to approve:

- 1) Inactivation of ActSc 833 and Stat 837
- 2) New course activation ActSc 854 (Longevity and Mortality using Predictive Analytics)
- 3) New course activation Stat 940 (Deep Learning)
- 4) Course name change and description update in ActSc 855.

4. Report from the Dean – M. Giesbrecht
5. Report from the Associate Dean, Undergraduate Admissions and Outreach - T. Vasiga
6. Notice of election for Chair of Faculty Council – B. Ferguson
7. Future meetings:
  - Tuesday April 20, 2021 – 3:30 PM
8. Other business



Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Mathematics

**Effective date:** Term: Fall Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

**New:** Choose an item.

**Inactivate:** Choose an item.

**Revise:** from Choose an item. to Choose an item.

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

**New:** Complete all course elements below

**Inactivate:** Complete the following course elements:  
Course subject code, Course number, Course ID, Course title

IZI **Revise:** Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):

Updating the course description

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: co

Course number: 685

Course ID: 010331

Course title (max. 100 characters including spaces): The Mathematics of Public-Key Cryptography

Course short title (max. 30 characters including spaces): Public-Key Cryptography

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Current description: An in-depth study of public-key cryptography, including: number-theoretic problems - prime generation, integer factorization, discrete logarithms; public-key encryption; digital signatures; key establishment; secret sharing; and security definitions and proofs.

Revised description: An in-depth study of public-key cryptography, including: number-theoretic problems - prime generation, integer factorization, discrete logarithms; public-key encryption; digital signatures; key establishment; elliptic curve cryptography; post-quantum cryptography; and security proofs.

Meet type(s): Lecture  Choose an item.  Choose an item.  Choose an item.

Primary meet type: Lecture

Delivery mode: on-campus

Requisites:

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with: CO 485

**Rationale for request:** Updating the course description to better reflect the course contents; similar changes have been proposed for CO 485 which is held with CO 685.

**Form completed by:** Alfred Menezes

**Department/School approval date** (mm/dd/yy): 01/20/21

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 01/25/21

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):



Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Mathematics

**Effective date:** Term: Fall Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New:** Choose an item.
- Inactivate:** Choose an item.
- Revise:** from Choose an item. to Choose an item.

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New:** Complete all course elements below
- Inactivate:** Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- ◆ **Revise:** Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):

Updating the Course description

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: co

Course number: 687

Course ID: 010471

Course title (max. 100 characters including spaces): Applied Cryptography

Course short title (max. 30 characters including spaces): Applied Cryptography

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Current description: A broad introduction to cryptography, highlighting the major developments of the past twenty years, including symmetric ciphers, hash functions and data integrity, public-key encryption and digital signatures, key establishment, and key management. Applications to internet security computer security, communications security, and electronic commerce will be studied.

Revised description: A broad introduction to modern cryptography, highlighting the tools and techniques used to secure internet and messaging applications. Symmetric-key encryption, hash functions, message authentication, authenticated encryption, public-key encryption and digital signatures, key establishment, key management.

Meet type(s): Lecture   Choose an item.   Choose an item.   Choose an item.

Primary meet type: Lecture

Delivery mode: on-campus

Requisites:

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with: CO 487

**Rationale for request:** Updating the course description to better reflect the course contents; similar changes have been proposed for CO 487 which is held with CO 687.

**Form completed by:** Alfred Menezes

**Department/School approval date** (mm/dd/yy): 01/20/21

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 01/25/21

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Faculty: Math

Effective term: Term/Year Spring 2021

Course  New  Revision  Inactivation

Milestone  New  Revision  Inactivation

New milestone title: [Choose an item.](#)

For course revisions, indicate the type(s) of changes (*e.g. consent, description, title, requisites*): Description and requisites

Course Subject code: CS Course number: 638

Course Title (max. 100 characters incl. spaces): Principles of Data Management and Use

Course Short Title (max. 30 characters incl. spaces): Principles of Data Mgmt & Use

Grading Basis: NUMERICAL

Course Credit Weight: 0.50

Course Consent Required:  [Choose an item.](#)

Course Description:

A user-oriented approach to the management of large collections of data. Relational database technology, relational algebra, SQL, database views, transactions, data modelling methodology, entity-relationship models. Introduction to several current topics in database research, such as warehousing, data mining, managing data streams, data cleaning, data integration, and distributed/parallel databases. Master of Health Informatics students only.

New course description (for revision only):

A user-oriented approach to the management of large collections of data. Relational database technology, relational algebra, SQL, database views, transactions, data modelling methodology, entity-relationship models. Introduction to several current topics in database research, such as warehousing, data mining, managing data streams, data cleaning, data integration, and distributed/parallel databases. Master of Health Informatics and Master of Data Science and Artificial Intelligence students only.

Meet Type(s): Lecture [Choose an item.](#) [Choose an item.](#) [Choose an item.](#)

Primary Meet Type: Lecture

[Requisites](#): MHI and MDSAI Students only / Only offered Online

Special topics course: Yes  No

Cross-listed: Yes  No

Course Subject(s) to be cross-listed with and approval status:

Sections combined/heldwith:

**Rationale for request:**

This course was initially created to support the MHI program and so the enrolment was limited to MHI students only. As the creation of the new MDSAI program last year, this course has been on the list of one of the core courses. To allow MDSAI students to enrol, we need to change the course description and requisites.

---

Prepared by: Denise Shantz

Date: 1-Sep-20



## Graduate Studies Program Revision Template

Prior to form submission, review the [content revision instructions](#) and information regarding [major/minor modifications](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs.

**Faculty:** Mathematics

**Programs:**

1. Doctor of Philosophy (PhD) in Computer Science
2. Doctor of Philosophy (PhD) in Computer Science - Internship
3. Doctor of Philosophy (PhD) in Computer Science - Quantum Information
4. Master of Mathematics (MMath) in Computer Science
5. Master of Mathematics (MMath) in Computer Science - Co-operative Program
6. Master of Mathematics (MMath) in Computer Science - Quantum Information

**Program contact name(s):** Denise Shantz

**Form completed by:** Denise Shantz

**Description of proposed changes:**

Note: changes to courses and milestones also require the completion/submission of the SGRC Course/Milestone-New/Revision/Inactivation form ([PC docx version](#) or [MAC docx version](#)).

*Adding CS 794 to the "Category and Area" (course requirements) table.*

Is this a [major modification](#) to the program? No

**Rationale for change(s):**

*CS 794 was recently created and offered in 2018. It needs to be added to the Category and Area Table. In consultation with the recent instructors, it is recommended to add CS 794 in the areas of Computational Statistics and Scientific and Symbolic Computing.*

**Proposed effective date:** Term: Spring Year: 2021

**Current [Graduate Studies Academic Calendar \(GSAC\)](#) page** (include the link to the web page where the changes are to be made):

<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/david-r-cheriton-school-computer-science/doctor-philosophy-phd-computer-science>

<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/david-r-cheriton-school-computer-science/doctor-philosophy-phd-computer-science-internship>

<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/david-r-cheriton-school-computer-science/doctor-philosophy-phd-computer-science-quantum-information>

<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/david-r-cheriton-school-computer-science/master-mathematics-mmath-computer-science>

<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/david-r-cheriton-school-computer-science/master-mathematics-mmath-computer-science-co-operative-program>

<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/david-r-cheriton-school-computer-science/master-mathematics-mmath-computer-science-quantum-information>

| Current Graduate Studies Academic Calendar content: |                                     |   | Proposed Graduate Studies Academic Calendar content: |                                     |   |
|---|-------------------------------------|---|--|-------------------------------------|---|
| Category  | Area                                | Computer Science (CS) Courses   | Category   | Area                                | Computer Science (CS) Courses   |
| computing Technology                                | software Engineering                | cs 645, cs 646, cs 647, cs 745, cs 746, cs 846  | computing Technology                                 | software Engineering                | cs 645, cs 646, cs 647, cs 745, cs 746, cs 846  |
|   | Programming Languages               | cs 642, cs 644, cs 744, cs 842  |  | Programming Languages               | cs 642, cs 644, cs 744, cs 842  |
|   | Hardware and software systems       | cs 650, cs 651, cs 652, cs 654, cs 655, cs 656, cs 657, cs 658, cs 755, cs 758, cs 854, cs 856, cs 858**,cs 869 |  | Hardware and software systems       | cs 650, cs 651, cs 652, cs 654, cs 655, cs 656, cs 657, cs 658, cs 755, cs 758, cs 854, cs 856, cs 858**,cs 869 |
| Mathematics of computing                            | Algorithms and complexity           | cs 662, cs 664, cs 666, cs 758, cs 761, cs 762, cs 763, cs 764, cs 765, cs 767, cs 840, cs 858**, cs 860        | Mathematics of computing                             | Algorithms and complexity           | cs 662, cs 664, cs 666, cs 758, cs 761, cs 762, cs 763, cs 764, cs 765, cs 767, cs 840, cs 858**, cs 860        |
|   | scientific and symbolic computing   | cs 670, cs 672, cs 675, cs 676, cs 687, cs 770, cs 774, cs 775, cs 778, cs 779, cs 780, cs 870, cs 887          |  | scientific and symbolic computing   | cs 670, cs 672, cs 675, cs 676, cs 687, cs 770, cs 774, cs 775, cs 778, cs 779, cs 780, cs 794, cs 870, cs 887  |
|   | computational statistics            | cs 680, cs 685, cs 786, cs 885  |  | computational statistics            | cs 680, cs 685, cs 786, cs 794, cs 885  |
|   | Quantum Information and computation | cs 766, cs 768, cs 867  |  | Quantum Information and computation | cs 766, cs 768, cs 867  |
| Applications  | Artificial Intelligence             | cs 684, cs 686, cs 784, cs 785, cs 787, cs 886  | Applications   | Artificial Intelligence             | cs 684, cs 686, cs 784, cs 785, cs 787, cs 886  |
|   | Databases                           | cs 640, cs 648, cs 740, cs 741, cs 742, cs 743, cs 848, cs 856*   |  | Databases                           | cs 640, cs 648, cs 740, cs 741, cs 742, cs 743, cs 848, cs 856*   |
|   | Graphics and User Interfaces        | cs 649, cs 688, cs 781, cs 783, cs 788,   |  | Graphics and User Interfaces        | cs 649, cs 688, cs 781, cs 783, cs 788,   |

| Current Graduate Studies Academic Calendar content: |                    |                                | Proposed Graduate Studies Academic Calendar content: |                    |                                |
|---|--------------------|--------------------------------|--|--------------------|--------------------------------|
|   |                    | cs 789, cs 791, cs 888, cs 889 |  |                    | cs 789, cs 791, cs 888, cs 889 |
|   | Bioinformatics     | cs 682, cs 782, cs 882         |  | Bioinformatics     | cs 682, cs 782, cs 882         |
|   | Health Informatics | cs 792                         |  | Health Informatics | cs 792                         |

**How will students currently registered in the program be impacted by these changes?**

*Students who took it previously will have it counted in either of the areas towards their degree.*

**Departmental approval date** (mm/dd/yy):

**Reviewed by GSPA** (for GSPA use only) ♦ date (mm/dd/yy): 09/01/2020

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

**Senate approval date** (mm/dd/yy) (if applicable):



## Graduate Studies Program Revision Template

Prior to form submission, review the [content revision instructions](#) and information regarding [major/minor modifications](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Mathematics

**Program:** Master of Mathematics (MMath) in Computer Science

**Program contact name(s):** Denise Shantz

**Form completed by:** Denise Shantz

**Description of proposed changes:**

Note: changes to courses and milestones also require the completion/submission of the [SGRC Graduate Studies Course/Milestone Form](#).

*Removing the GRE requirement from the admission requirements.*

Is this a [major modification](#) to the program? No

**Rationale for change(s):**

There is no strong evidence that success of graduate studies and GRE scores are closely correlated. By requiring the GRE, we may miss out potentially strong applicants who do not or cannot write the exam. Furthermore, GRE has been criticized as having a negative impact on diversity and inclusion.

**Proposed effective date:** Term: Spring Year: 2021

**Current [Graduate Studies Academic Calendar \(GSAC\)](#) page** (include the link to the web page where the changes are to be made):

<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/david-r-cheriton-school-computer-science/master-mathematics-mmath-computer-science>

| Current Graduate Studies Academic Calendar content:  | Proposed Graduate Studies Academic Calendar content:   |
|--|--|
| <p><b>Admission requirements</b></p> <ul style="list-style-type: none"> <li>• <b>Minimum requirements</b> <ul style="list-style-type: none"> <li>○ An Honours Bachelor degree in Computer Science or Engineering (or equivalent degree) with at least a 78% standing.</li> <li>○ <del>The Graduate Record Examination (GRE) General test is required of all applicants to the School of Computer Science, who have not completed a 4 year undergraduate degree at a North</del></li> </ul> </li> </ul> | <p><b>Admission requirements</b></p> <ul style="list-style-type: none"> <li>• <b>Minimum requirements</b> <ul style="list-style-type: none"> <li>○ An Honours Bachelor degree in Computer Science or Engineering (or equivalent degree) with at least a 78% standing.</li> </ul> </li> </ul> |

| Current Graduate Studies Academic Calendar content:                       | Proposed Graduate Studies Academic Calendar content: |
|---|--|
| American University where English is the primary language of instruction. |  |

**How will students currently registered in the program be impacted by these changes?**

This change will go into effect after the current application cycle closes. Therefore the new applicants for Winter 2022 admission for the Master of Mathematics (MMath) in Computer Science program will be the first applicants who will not require the GRE in their program application.

**Department/School approval date** (mm/dd/yy):

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy):

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

**Senate approval date** (mm/dd/yy) (if applicable):



## Graduate Studies Program Revision Template

Prior to form submission, review the [content revision instructions](#) and information regarding [major/minor modifications](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Mathematics

**Program:** Master of Mathematics (MMath) in Computer Science - Quantum Information

**Program contact name(s):** Denise Shantz

**Form completed by:** Denise Shantz

**Description of proposed changes:**

Note: changes to courses and milestones also require the completion/submission of the [SGRC Graduate Studies Course/Milestone Form](#).

*Removing the GRE requirement from the admission requirements.*

Is this a [major modification](#) to the program? No

**Rationale for change(s):**

There is no strong evidence that success of graduate studies and GRE scores are closely correlated. By requiring the GRE, we may miss out potentially strong applicants who do not or cannot write the exam. Furthermore, GRE has been criticized as having a negative impact on diversity and inclusion.

**Proposed effective date:** Term: Spring Year: 2021

**Current [Graduate Studies Academic Calendar \(GSAC\)](#) page** (include the link to the web page where the changes are to be made):

<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/david-r-cheriton-school-computer-science/master-mathematics-mmath-computer-science-quantum-information>

| Current Graduate Studies Academic Calendar content:   | Proposed Graduate Studies Academic Calendar content:   |
|---|--|
| <p><b>Admission requirements</b></p> <ul style="list-style-type: none"> <li>• <b>Minimum requirements</b> <ul style="list-style-type: none"> <li>○ An Honours Bachelor degree (or equivalent) in Computer Science with at least a 78% standing.</li> <li>○ <del>The Graduate Record Examination (GRE) General test is required of all applicants to the School of Computer Science, who have not completed a 4-year undergraduate degree at a North American University where English is</del></li> </ul> </li> </ul> | <p><b>Admission requirements</b></p> <ul style="list-style-type: none"> <li>• <b>Minimum requirements</b> <ul style="list-style-type: none"> <li>○ An Honours Bachelor degree (or equivalent) in Computer Science with at least a 78% standing.</li> </ul> </li> </ul> |

| Current Graduate Studies Academic Calendar content: | Proposed Graduate Studies Academic Calendar content: |
|---|--|
| the primary language of instruction.                |  |

**How will students currently registered in the program be impacted by these changes?**

This change will go into effect after the current application cycle closes. Therefore the new applicants for Winter 2022 admission for the Master of Mathematics (MMath) in Computer Science – Quantum Information program will be the first applicants who will not require the GRE in their program application.

**Department/School approval date** (mm/dd/yy):

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy):

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

**Senate approval date** (mm/dd/yy) (if applicable):



## Graduate Studies Program Revision Template

Prior to form submission, review the [content revision instructions](#) and information regarding [major/minor modifications](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Mathematics

**Program:** 1) Doctor of Philosophy (PhD) in Computer Science  
2) Doctor of Philosophy (PhD) in Computer Science - Quantum Information

**Program contact name(s):** Denise Shantz

**Form completed by:** Denise Shantz

**Description of proposed changes:**

Note: changes to courses and milestones also require the completion/submission of the [SGRC Graduate Studies Course/Milestone Form](#).

*Removing the GRE requirement from the admission requirements.*

Is this a [major modification](#) to the program? No

**Rationale for change(s):**

There is no strong evidence that success of graduate studies and GRE scores are closely correlated. By requiring the GRE, we may miss out potentially strong applicants who do not or cannot write the exam. Furthermore, GRE has been criticized as having a negative impact on diversity and inclusion.

**Proposed effective date:** Term: Spring Year: 2021

**Current [Graduate Studies Academic Calendar \(GSAC\)](#) page** (include the link to the web page where the changes are to be made):

<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/david-r-cheriton-school-computer-science/doctor-philosophy-phd-computer-science>

<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/david-r-cheriton-school-computer-science/doctor-philosophy-phd-computer-science-quantum-information>

| Current Graduate Studies Academic Calendar content:  | Proposed Graduate Studies Academic Calendar content:   |
|--|--|
| <p><b>Admission requirements</b></p> <ul style="list-style-type: none"> <li>• <b>Minimum requirements</b> <ul style="list-style-type: none"> <li>○ A Master's degree in Computer Science with a 78% average.</li> <li>○ <del>The Graduate Record Examination (GRE) General test is required of all applicants to the School of Computer</del></li> </ul> </li> </ul> | <p><b>Admission requirements</b></p> <ul style="list-style-type: none"> <li>• <b>Minimum requirements</b> <ul style="list-style-type: none"> <li>○ A Master's degree in Computer Science with a 78% average.</li> <li>○ Student with an undergraduate degree in Computer Science may apply for admission directly to the PhD program.</li> </ul> </li> </ul> |

| Current Graduate Studies Academic Calendar content:   | Proposed Graduate Studies Academic Calendar content:   |
|---|--|
| <p><del>Science, who have not completed a 4 year undergraduate degree at a North American University where English is the primary language of instruction.</del></p> <ul style="list-style-type: none"> <li>○ Student with an undergraduate degree in Computer Science may apply for admission directly to the PhD program. Successful applicants will have an outstanding academic record, breadth of knowledge in computer science, and strong letters of recommendation.</li> <li>○ PhD applicants may be admitted into the Master of Mathematics (MMath) program. Like all MMath students, they will have the option to transfer into the PhD program before completing the master's thesis if their performance warrants.</li> </ul> | <p>Successful applicants will have an outstanding academic record, breadth of knowledge in computer science, and strong letters of recommendation.</p> <ul style="list-style-type: none"> <li>○ PhD applicants may be admitted into the Master of Mathematics (MMath) program. Like all MMath students, they will have the option to transfer into the PhD program before completing the master's thesis if their performance warrants.</li> </ul> |

### How will students currently registered in the program be impacted by these changes?

This change will go into effect after the current application cycle closes. Therefore the new applicants for Winter 2022 admission for the Doctor of Philosophy (PhD) in Computer Science and then Doctor of Philosophy (PhD) in Computer Science – Quantum Information programs will be the first applicants who will not require the GRE in their program applications.

**Department/School approval date** (mm/dd/yy):

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy):

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

**Senate approval date** (mm/dd/yy) (if applicable):



## Graduate Studies Program Revision Template

Prior to form submission, review the [content revision instructions](#) and information regarding [major/minor modifications](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Mathematics

**Program:** Master of Mathematics for Teachers (MMT)

**Program contact name(s):** J.P. Pretti and Jacqueline Bailey

**Form completed by:** J.P. Pretti

**Description of proposed changes:**

Note: changes to courses and milestones also require the completion/submission of the [SGRC Graduate Studies Course/Milestone Form](#).

*Clarify minimum course grade requirement and frequency with which student performance is assessed to reflect current practice.*

Is this a [major modification](#) to the program? No

**Rationale for change(s):**

*Grades below 70% are relatively uncommon in the MMT but they do occur. A grade of less than 70% should not count towards degree requirements but also should not result in the removal of a student from the program. Currently, when a grade less than 70% is received by a student, the program reaches out to provide support and to clarify that the course does not count towards the 4.50 units required to complete an MMT degree. As a course-based program, MMT student performance is assessed after each term.*

**Proposed effective date:** Term: Spring Year: 2021

**Current [Graduate Studies Academic Calendar \(GSAC\)](#) page** (include the link to the web page where the changes are to be made):

<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/mathematics-teachers/master-mathematics-teachers-mmt>

| Current Graduate Studies Academic Calendar content:   | Proposed Graduate Studies Academic Calendar content:  |
|---|---|
| <p><b>Degree requirements</b></p> <ul style="list-style-type: none"> <li>• <b>Courses</b> <ul style="list-style-type: none"> <li>○ Students are required to complete the equivalent of 9 one-term (0.50 unit weight) graduate level courses.</li> <li>○ Among their courses totaling 4.50 unit weight, students must complete:</li> </ul> </li> </ul> | <p><b>Degree requirements</b></p> <ul style="list-style-type: none"> <li>• <b>Courses</b> <ul style="list-style-type: none"> <li>○ Students are required to complete the equivalent of 9 one-term (0.50 unit weight) graduate level courses.</li> <li>○ Among their courses totaling 4.50 unit weight, students must complete:</li> </ul> </li> </ul> |

| Current Graduate Studies Academic Calendar content:   | Proposed Graduate Studies Academic Calendar content:   |
|---|--|
| <ul style="list-style-type: none"> <li>▪ MATH 600 Introduction to Mathematical Software for Teachers (0.25 unit weight)</li> <li>▪ MATH 692 Reading, Writing and Discovering Proofs (0.25 unit weight)</li> <li>▪ MATH 681 Problem Solving and Mathematical Discovery (0.50 unit weight)</li> <li>▪ MATH 699 Master of Mathematics for Teachers Capstone (0.50 unit weight)</li> <li>○ MATH 600 and MATH 692 should be taken in a student's first term in the program.</li> <li>○ The remaining courses are to be MATH courses at the 600 and/or 700 level.</li> <li>○ Each of these courses are offered online, with the exception of MATH 690, which is offered on-campus in Waterloo.</li> <li>○ MATH 699 Master of Mathematics for Teachers Capstone: the capstone project is designed to give students an opportunity to showcase the knowledge that they have gained and to provide a forum for bringing that knowledge into their own classroom. In most cases, with the guidance of a faculty member, students will be asked to choose a mathematical concept or area of study, perform all necessary background reading, and then design and complete a project consisting of a short three week mini-course on the chosen topic that would be accessible to their students and colleagues. To be successfully completed, the capstone project must be approved by the student's capstone supervisor. Students can begin the capstone requirement any time after they have completed the equivalent of 6 courses (0.50 unit weight).</li> <li>○ Students must maintain an overall average of 75% in the program, <del>with individual course marks</del> of at least 70%. Student performance <del>will be assessed annually</del> for progress towards the MMT degree.</li> </ul> | <ul style="list-style-type: none"> <li>▪ MATH 600 Introduction to Mathematical Software for Teachers (0.25 unit weight)</li> <li>▪ MATH 692 Reading, Writing and Discovering Proofs (0.25 unit weight)</li> <li>▪ MATH 681 Problem Solving and Mathematical Discovery (0.50 unit weight)</li> <li>▪ MATH 699 Master of Mathematics for Teachers Capstone (0.50 unit weight)</li> <li>○ MATH 600 and MATH 692 should be taken in a student's first term in the program.</li> <li>○ The remaining courses are to be MATH courses at the 600 and/or 700 level.</li> <li>○ Each of these courses are offered online, with the exception of MATH 690, which is offered on-campus in Waterloo.</li> <li>○ MATH 699 Master of Mathematics for Teachers Capstone: the capstone project is designed to give students an opportunity to showcase the knowledge that they have gained and to provide a forum for bringing that knowledge into their own classroom. In most cases, with the guidance of a faculty member, students will be asked to choose a mathematical concept or area of study, perform all necessary background reading, and then design and complete a project consisting of a short three week mini-course on the chosen topic that would be accessible to their students and colleagues. To be successfully completed, the capstone project must be approved by the student's capstone supervisor. Students can begin the capstone requirement any time after they have completed the equivalent of 6 courses (0.50 unit weight).</li> <li>○ Students must maintain an overall average of 75% in the program. <u>Only courses with grades of at least 70% contribute to the required 4.50 units but all numeric grades contribute to the overall average.</u> Student performance <u>is assessed after each term</u> for progress towards the MMT degree.</li> </ul> |

**How will students currently registered in the program be impacted by these changes?**

*Students reading the GSAC will now see a more accurate reflection of the consequences of a grade less than 70% and how often their performance is assessed.*

**Department/School approval date** (mm/dd/yy):

**Reviewed by GSPA** (for GSPA use only) ◆ date (mm/dd/yy): 10/27/20

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

**Senate approval date** (mm/dd/yy) (if applicable):



Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Mathematics

**Effective date:** Term: Spring      Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Choose an item.
- Inactivate: Choose an item.
- Revise: from Choose an item. to Choose an item.

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New:            Complete all course elements below
- Inactivate:    Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- IZI Revise:     Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):  
Course consent: removing department consent.  
Requisites: adding corequisites of MATH 600 and MATH 692

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: MATH

Course number: 674

Course ID: 014213

Course title (max. 100 characters including spaces): Special Topics in Mathematical Connections

Course short title (max. 30 characters including spaces): Mathematical Connections

Grading basis: Numerical

Course credit weight: 0.25

Course consent required: Not required

Course description: This course is intended to give the student insight to an important area of mathematics and how it connects with problems in the real world. Each topic consists of one six-week module. The emphasis will

be on how the mathematics is used in a real world context.

Meet type(s): Lecture Choose an item. Choose an item. Choose an item.

Primary meet type: Lecture

Delivery mode: Only offered online

Requisites: MATH 600 and 692 are co-requisites

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

**Rationale for request:**

Department Consent Required was in place largely to enforce a rule limiting students to taking 8 of the current 10 possible topics. The MMT Graduate Committee no longer sees a compelling reason to impose this limit. (GSPA has confirmed that this limit is not encoded in the calendar and so formal approval is not needed to remove or adjust the limit.)

**Form completed by:** J.P. Pretti

**Department/School approval date** (mm/dd/yy):

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 10/27/20

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Prior to form submission, review the [content revision instructions](#) and information regarding [major/minor modifications](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Mathematics

**Program:** Master of Mathematics (MMath) in Pure Mathematics

**Program contact name(s):** Nancy Maloney, Barbara Csimá

**Form completed by:** Nancy Maloney

**Description of proposed changes:**

Note: changes to courses and milestones also require the completion/submission of the [SGRC Graduate Studies Course/Milestone Form](#).

*Updating the Master's Research Paper milestone description to identify the review process.*

**Is this a [major modification](#) to the program?** No

**Rationale for change(s):**

*The Department felt the review process for the research paper should be stated in the Calendar.*

**Proposed effective date:** Term: Spring Year: 2021

**Current [Graduate Studies Academic Calendar \(GSAC\)](#) page** (include the link to the web page where the changes are to be made):

*<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/department-pure-mathematics/master-mathematics-mmath-pure-mathematics>*

| <b>Current Graduate Studies Academic Calendar content:</b>   | <b>Proposed Graduate Studies Academic Calendar content:</b>   |
|--|---|
| <p><b>Degree requirements</b></p> <p><b>Master's Research Paper option:</b></p> <p><b>Masters Research Paper</b></p> <ul style="list-style-type: none"> <li>The Master's Research Paper will normally be completed in the Spring term (May - August) for students who entered the program in the previous Fall term. A typical research paper is roughly 25-30 typed pages.</li> </ul> | <p><b>Degree requirements</b></p> <p><b>Master's Research Paper option:</b></p> <p><b>Masters Research Paper</b></p> <ul style="list-style-type: none"> <li>The Master's Research Paper will normally be completed in the Spring term (May - August) for students who entered the program in the previous Fall term. <u>The research paper must be approved by two readers; the Supervisor(s) and one other reader who will normally hold a PhD and an appointment at the University of Waterloo.</u> A typical research paper is roughly 25-30 typed pages.</li> </ul> |

**How will students currently registered in the program be impacted by these changes?**

*We currently advise students of this requirement before they complete their research papers, so they will not be impacted by this change.*

**Department/School approval date** (mm/dd/yy): 10/06/20

**Reviewed by GSPA** (for GSPA use only)  **date** (mm/dd/yy): 10/30/20

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

**Senate approval date** (mm/dd/yy) (if applicable):

Prior to form submission, review the [content revision instructions](#) and information regarding [major/minor modifications](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Mathematics

**Program:** Master of Mathematics (MMath) in Pure Mathematics - Quantum Information

**Program contact name(s):** Nancy Maloney, Barbara Csimá

**Form completed by:** Nancy Maloney

**Description of proposed changes:**

Note: changes to courses and milestones also require the completion/submission of the [SGRC Graduate Studies Course/Milestone Form](#).

*Updating the Master's Research Paper milestone description to identify the review process.*

**Is this a [major modification](#) to the program?** No

**Rationale for change(s):**

*The Department felt the review process for the research paper should be stated in the Calendar.*

**Proposed effective date:** Term: SpringYear: 2021

**Current [Graduate Studies Academic Calendar \(GSAC\)](#) page** (include the link to the web page where the changes are to be made):

<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/department-pure-mathematics/master-mathematics-mmath-pure-mathematics-quantum-information>

| Current Graduate Studies Academic Calendar content:   | Proposed Graduate Studies Academic Calendar content:  |
|---|---|
| <p><b>Degree requirements</b></p> <p><b>Master's Research Paper option:</b></p> <p><b>Master's Research Paper</b></p> <ul style="list-style-type: none"> <li>The Master's Research Paper should be on a topic related to quantum information and will normally be completed in the Spring term (May-August) for students who entered the program in the previous Fall term. A typical research paper is roughly 25-30 typed pages.</li> </ul> | <p><b>Degree requirements</b></p> <p><b>Master's Research Paper option:</b></p> <p><b>Master's Research Paper</b></p> <ul style="list-style-type: none"> <li>The Master's Research Paper should be on a topic related to quantum information and will normally be completed in the Spring term (May-August) for students who entered the program in the previous Fall term. <u>The research paper must be approved by two readers; the Supervisor(s) and one other reader who will normally hold a PhD and an appointment at the University of Waterloo.</u> A</li> </ul> |

| Current Graduate Studies Academic Calendar content: | Proposed Graduate Studies Academic Calendar content: |
|---|--|
|   | typical research paper is roughly 25-30 typed pages. |

**How will students currently registered in the program be impacted by these changes?**

*We currently advise students of this requirement before they complete their research papers, so they will not be impacted by this change.*

**Department/School approval date** (mm/dd/yy): 10/06/20

**Reviewed by GSPA** (for GSPA use only) ♦ date (mm/dd/yy): 10/30/20

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

**Senate approval date** (mm/dd/yy) (if applicable):

Prior to form submission, review the [content revision instructions](#) and information regarding [major/minor modifications](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Mathematics

**Programs:** 1) Doctor of Philosophy (PhD) in Pure Mathematics

2) Doctor of Philosophy (PhD) in Pure Mathematics - Quantum Information

**Program contact name(s):** Nancy Maloney, Barbara Csimá

**Form completed by:** Nancy Maloney

**Description of proposed changes:**

Note: changes to courses and milestones also require the completion/submission of the [SGRC Graduate Studies Course/Milestone Form](#).

*Changing the “Comprehensive Examination” milestone to the “Qualifying Examination” milestone. Some contradictions and redundancies with general Qualifying Examination guidelines are being removed, with a link to the University-level PhD Qualifying Examination minimum requirements instead. The scope of the exams is being increased slightly to allow any undergraduate material, rather than just third and fourth year material, to be included in the syllabus.*

**Is this a [major modification](#) to the program?** No

**Rationale for change(s):**

*The PMath Comprehensive Examination will now be considered the Qualifying Examination, so the calendar text is being updated to reflect the change, and the new requirements. The restriction to material covered in the University of Waterloo’s third and fourth year undergraduate courses was awkward since some standard material that ought to appear on the syllabus is actually offered in our second year courses.*

**Proposed effective date:** Term: Spring Year: 2021

**Current [Graduate Studies Academic Calendar \(GSAC\)](#) page** (include the link to the web page where the changes are to be made):

<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/department-pure-mathematics/doctor-philosophy-phd-pure-mathematics>

<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/department-pure-mathematics/doctor-philosophy-phd-pure-mathematics-quantum-information>

| Current Graduate Studies Academic Calendar content: | Proposed Graduate Studies Academic Calendar content: |
|---|--|
| Degree requirements                                 | Degree requirements                                  |

| Current Graduate Studies Academic Calendar content:   | Proposed Graduate Studies Academic Calendar content:   |
|---|--|
| <ul style="list-style-type: none"> <li>● <b>PhD Comprehensive Examination</b> <ul style="list-style-type: none"> <li>• Students in the PhD in Pure Mathematics program are required to meet the following requirements:</li> <li>• Satisfactory performance in 2 written Comprehensive Examinations: <ul style="list-style-type: none"> <li>○ 1 in algebra</li> <li>○ 1 in analysis and topology</li> </ul> </li> <li>• <del>Each exam is set and assessed by two examiners, with oversight from the Graduate Committee. Members of the Graduate Committee are allowed to serve as examiners. The outcome of each exam is determined by the Graduate Committee.</del></li> <li>• The syllabus is based on the material covered in the University of Waterloo's <del>third and fourth</del> year undergraduate courses. <del>The Graduate Committee offers these written exams annually.</del></li> <li>• Students must attempt both exams within one year of their registration in the PhD program, <del>and both exams must be successfully completed within seven terms.</del></li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>□ <b>PhD <u>Qualifying</u> Examination</b> <ul style="list-style-type: none"> <li>• <u>Students are required to meet the University-level PhD Qualifying Examination minimum requirements outlined in the “<a href="#">Minimum requirements for the PhD degree</a>” section of the Graduate Studies Academic Calendar (GSAC).</u></li> <li>• <u>In addition to the University-level PhD Qualifying Examination minimum requirements,</u> students in the PhD in Pure Mathematics program are <u>also</u> required to meet the following requirements:</li> <li>• Satisfactory performance in 2 written <u>Qualifying Examinations</u>: <ul style="list-style-type: none"> <li>○ 1 in algebra</li> <li>○ 1 in analysis and topology</li> </ul> </li> <li>• The syllabus is based on the material covered in the University of Waterloo's undergraduate courses, <u>and is posted on the Department webpage. These written exams are offered annually.</u></li> <li>• Students must attempt both exams within one year of their registration in the PhD program.</li> </ul> </li> </ul> |

### How will students currently registered in the program be impacted by these changes?

*The Qualifying Examination milestone will replace the Comprehensive Examination milestone. Students who have passed or conditionally passed a portion of the existing Comprehensive Examination will be considered to have passed or conditionally passed the corresponding portion of the Qualifying Examination, with the same conditions, if any.*

**Department/School approval date (12/14/20):**

**Reviewed by GSPA (for GSPA use only) ♦ date (mm/dd/yy):** 01/25/21

**Faculty approval date (mm/dd/yy):**

**Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):**

**Senate approval date (mm/dd/yy) (if applicable):**

Faculty: Math

Effective term: Term/Year Spring 2021

Course  New  Revision  Inactivation Milestone  New  Revision  Inactivation 

New milestone title: Choose an item.

 For course revisions, indicate the type(s) of changes:  
 (e.g. consent, description, title, requisites)

Course Subject code: ACTSC Course number: 833

Course Title (max. 100 characters incl. spaces): Analysis of Mortality Data

Course Short Title (max. 30 characters incl. spaces): Analysis of Mortality Data

Grading Basis: NUMERICAL

Course Credit Weight: 0.50

Course Consent Required:  Choose an item.

Course Description: The Mathematics of Survival Models, some examples of parametric survival models. Tabular survival models, estimates from complete and incomplete data samples. Parametric survival models, determining the optimal parameters. Maximum likelihood estimators, derivation and properties. Product limit estimators, Kaplan-Meier and Nelson Aalen. Practical aspects.

New course description (for revision only):

Meet Type(s): Lecture Choose an item. Choose an item. Choose an item.

Primary Meet Type: Lecture

[Requisites:](#)Special topics course: Yes  No Cross-listed: Yes  No 

Course Subject(s) to be cross-listed with and approval status:

Sections combined/heldwith: ActSc 433

**Rationale for request:**

This course will be changed to ActSc 454/854.

Prepared by: Mary Lou Dufton

Date: 14-Nov-19

Faculty: Math

Effective term: Term/Year Spring 2021

Course  New  Revision  Inactivation Milestone  New  Revision  Inactivation 

New milestone title: Choose an item.

 For course revisions, indicate the type(s) of changes:  
 (e.g. consent, description, title, requisites)

Course Subject code: STAT Course number: 837

Course Title (max. 100 characters incl. spaces): Analysis of Longitudinal Data in Health Research

Course Short Title (max. 30 characters incl. spaces):

Grading Basis: Choose an item.

Course Credit Weight: Choose an item.

Course Consent Required:  Choose an item.

Course Description:

New course description (for revision only):

Meet Type(s): Choose an item. Choose an item. Choose an item. Choose an item.

Primary Meet Type: Choose an item.

[Requisites:](#)Special topics course: Yes  No Cross-listed: Yes  No 

Course Subject(s) to be cross-listed with and approval status:

Sections combined/heldwith:

**Rationale for request: This course was previously held with Stat 437 and since the change in the undergraduate program for Statistics in Health, this course is no longer offered at the grad level.**

Prepared by: Mary Lou Dufton

Date: 26-Feb-20



Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Mathematics

**Effective date:** Term: Spring      Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

IZI New: Choose an item.

Inactivate: Choose an item.

Revise: from Choose an item. to Choose an item.

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

IZI New: Complete all course elements below

Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title

Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: ACTSC

Course number: 854

Course ID:

Course title (max. 100 characters including spaces): Longevity and Mortality using Predictive Analytics

Course short title (max. 30 characters including spaces): Mortality Pred Analytics

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description: Kaplan-Meier and Nelson-Aalen estimators for survival functions. Kernel density models. Validation of mortality tables. Estimators for Markov multiple state transition intensities. Longevity models including deterministic and stochastic models such as Lee-Carter and Cairns-Blake-Dowd.

Meet type(s): Lecture Choose an item. Choose an item. Choose an item.

Primary meet type: Lecture

Delivery mode: On-campus

Requisites:

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with: ActSc 454

**Rationale for request:**

A new course to replace ActSc 433/833

**Form completed by:** Mary Lou Dufton

**Department/School approval date** (mm/dd/yy): 10/30/2020

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy):

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):

Faculty: Math Effective term: Term/Year  
 Spring 2021

Course  New  Revision  Inactivation   
 Milestone  New  Revision  Inactivation

New milestone title: Choose an item.

For course revisions, indicate the type(s) of changes:  
*(e.g. consent, description, title, requisites)*

Course Subject code: STAT Course number: 940  
 Course Title (max. 100 characters incl. spaces): Deep Learning  
 Course Short Title (max. 30 characters incl. spaces): Deep Learning  
 Grading Basis: NUMERICAL  
 Course Credit Weight: 0.50  
 Course Consent Required:  Choose an item.

Course Description: Deep learning uses artificial neural networks to create representations of data with multiple levels of abstraction. Deep learning usually refers to a set of algorithms and computational models that are composed of multiple processing layers. These methods have significantly improved the state-of-the-art in many domains including Natural Language Processing (NLP), Natural Language Understanding (NLU), Speech Recognition, Computer Vision, Classification, Pattern Recognition and Bioinformatics. This course will cover the modern practice of deep networks, different architectures of deep networks including feed forward and convolutional models, methods for sequence modeling, variational and adversarial models, attention mechanism and optimization and regularization for deep models.

New course description (for revision only):

Meet Type(s): Lecture Choose an item. Choose an item. Choose an item.  
 Primary Meet Type: Lecture

[Requisites:](#)

Special topics course: Yes  No   
 Cross-listed: Yes  No

Course Subject(s) to be cross-listed with and approval status:  
 Sections combined/heldwith:

### Rationale for request:

Currently a topics course taught annually with high enrollment with students from our department and other departments across campus. This course will have an on campus offering in Fall term and an on-line offering in the Winter term.

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Prepared by: Mary Lou Dufton

Date: 2s-Feb-2o

Prior to form submission, review the [content revision instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

**Faculty:** Mathematics

**Effective date:** Term: Spring Year: 2021

### Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Choose an item.
- Inactivate: Choose an item.
- Revise: from Choose an item. to Choose an item.

### Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:  
Course subject code, Course number, Course ID, Course title
- ◆ Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):  
  
Updating the Course title and Course description.

**Course elements** (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: ACTSC

Course number: 855

Course ID: 000078

Course title (max. 100 characters including spaces): Life Contingencies 3

Course short title (max. 30 characters including spaces): Life Contingencies 3

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description: Profit testing for traditional and non-traditional life insurance. Pricing and valuation of embedded options in life insurance products. Defined benefit and defined contribution pension plan design. Theory and practice of unit credit methods for pension plan funding and valuation for final average salary, career average earnings, and career average revalued earnings pension plans; post-retirement health benefits.

Meet type(s): Lecture Choose an item. Choose an item. Choose an item.

Primary meet type: Lecture

Delivery mode: On-campus

Requisites:

Special topics course: Yes  No

Cross-listed course: Yes  No

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with: ACTSC 455

**Rationale for request:** To accommodate the changes made in the undergraduate ACTSC 455 course. These changes have been (partially) triggered by new requirements on the professional actuarial curriculum as well as current trends in the actuarial science profession.

**Form completed by:** Mary Lou Dufton

**Department/School approval date** (mm/dd/yy): 10/30/2020

**Reviewed by GSPA** (for GSPA use only)  date (mm/dd/yy): 10/05/2020

**Faculty approval date** (mm/dd/yy):

**Senate Graduate & Research Council (SGRC) approval date** (mm/dd/yy):



March 29, 2021

TO: Kathy Winter, Assistant University Secretary and Privacy Officer, Senate Graduate and Research Council

FROM: Heidi Mussar, Associate Director, Graduate Financial Aid & Awards

RE: Agenda items for Senate Graduate & Research Council – April 2021

**Items for Approval**

**a) Waterloo AI Institute Graduate Scholarship - operating**

Waterloo AI Institute Graduate Scholarships, valued at \$5,000, will be awarded each year to graduate students registered full time who are conducting research under supervisors affiliated with the Artificial Intelligence Institute at the University of Waterloo. Selection will be based on academic achievement (minimum 80% cumulative average in their current program) and demonstrated expertise in artificial intelligence. Interested students must contact the Waterloo AI Institute for an application.

A committee including the co-directors of the Artificial Intelligence Institute and other members of the Institute will select the recipients in the winter term. One Master's student and one PhD student will be selected from each of the University's six Faculties.

**b) Faculty of Arts Graduate Award – operating**

The Faculty of Arts Graduate Award has been established to provide financial support to eligible students as part of their graduate funding package in the Faculty of Arts. Students must be registered full time, within their program time limits in a master's or doctoral program, and have a minimum overall average between 75% and 80% in their current program. Students must not be supported by any major external scholarships such as OGS, CIHR, NSERC or SSHRC. These scholarships are awarded by the Faculty and are normally awarded at the beginning of each term.

**c) José Blakeley Graduate Scholarship in Data Systems – endowment**

A scholarship valued at \$10,000, will be awarded annually to an international graduate student registered full time in any year of the master's or doctoral program of the Data Systems Group in the David R. Cheriton School of Computer Science in the Faculty of Mathematics. The Director of Graduate Studies in the David R. Cheriton School of Computer Science will select a recipient annually in the Spring term based on academic achievement combined with a demonstrated need to overcome a barrier as outlined in the application package. Interested students should submit an application by June 15 to the School of Computer Science Graduate Office. This fund is made possible by a donation from Lucinda Blakeley in honour of her late husband, José Blakeley.

Amount of gift = \$325,800

**d) Harvey Bains and Ben Kaak Doctoral Award – trust**

Two awards, each valued at \$5,000, will be awarded annually to doctoral students registered full time in Year Four or beyond in the School of Accounting and Finance in the Faculty of Arts, with a preference for students in Year Five. The award will be given based on demonstrated financial need as determined by Waterloo. To be considered, students must complete the Graduate Student Award Application found on the graduate studies website and submit it to Graduate Studies and Postdoctoral Affairs by October 1. This fund is made possible by a donation from Harvey Bains and alumnus, Ben Kaak (BA '82).

The period of this defined term award will be from 2021 to 2025.

Total gift is \$50,000.

**e) Marzieh (Mari) Foroutan Memorial Graduate Scholarship – endowment**

A scholarship, valued at up to \$2,000, will be awarded annually to a full-time international graduate student enrolled in any program in the Faculty of Environment. Selection will be based on scholastic excellence (minimum cumulative average of 80%). Preference will be given to students who demonstrate leadership and community engagement. Interested and eligible students must complete an application found on the Faculty of Environment website and submit it to the Associate Dean, Graduate Studies Office in the Faculty of Environment by February 1. The Associate Dean of Graduate Studies, in the Faculty of Environment will select a recipient annually in the winter term. This fund is made possible by gifts made in honour of Mari Foroutan who lost her life on January 8, 2020 aboard the Ukraine International Flight PS752.

**Items for Information**

**f) Dean of Mathematics Excellence Scholarship – operating**

Originally approved at SG&RC in May 2019, the Faculty of Mathematics would like to amend the terms of reference by extending the timeframe in which the scholarship will be awarded. Originally, only intended to be for the 2019/2020 fiscal year, the award is being extended until the 2023/2024 fiscal year with the possibility of being further extended.

Because the scholarship was originally only intended for one year, it was not advertised on the website. Since it is continuing, the award description that will be advertised is as follows:

The Dean of Mathematics Excellence Scholarship, valued at \$8,000 across two academic terms, will be awarded to graduate students registered full time in the Faculty of Mathematics at the University of Waterloo. Candidates must have a minimum cumulative average in their last completed program of at least 85% as well as demonstrated research potential. Preference will be given to students admitted into a doctoral program; however, if a suitable outstanding doctoral candidate cannot be found, the scholarship may be given to an outstanding student entering a research-based master's program.

**g) Engineering Dean's Entrance Award – operating**

Originally approved at SG&RC in June 2018, the Faculty of Engineering would like to amend the terms by having the scholarship paid across two academic terms in stead of three. The amendment takes effect for any new awards offered from May 2021 onwards. The rest of the terms remain the same.