CARLETON UNIVERSITY
Canada's Capital University

Office of the Vice-Provost and
Associate Vice-President
(Academic)

memorandum

DATE: January 22, 2021

TO: Senate

FROM: Dr. Dwight Deugo, Vice-Provost and Associate Vice-President (Academic), and Chair, Senate
Quality Assurance and Planning Committee

RE: 2021-22 Calendar Curriculum Proposals
Undergraduate and Graduate Major Modifications

Background
Following Faculty Board approval and, as part of academic quality assurance, major curriculum modifications are considered by the Senate Committee on Curriculum, Admissions and Studies Policy (SCCASP) and the Senate Quality Assurance and Planning Committee (SQAPC) before being recommended to Senate.

Library Reports (as required)
In electronic communication members of the Library staff, upon review of the proposals, confirmed no additional resources were required for the 2021-22 major modifications included below.

Documentation
Recommended calendar language, along with supplemental documentation as appropriate, are provided for consideration and approval.

Omnibus Motion
In order to expedite business with the multiple major modifications that are subject to Senate approval at this meeting, the following omnibus motion will be moved. Senators may wish to identify any of the following 20 major modifications that they feel warrant individual discussion that will then not be covered by the omnibus motion. Independent motions as set out below will nonetheless be written into the Senate minutes for those major modifications that Senators agree can be covered by the omnibus motion.

THAT Senate approve the major modifications as presented below with effect from Fall 2021.

Major Modifications
1. **Collaborative Specialization in Climate Change**
   SCCASP approval: December 1, 2020
   SQAPC approval: December 10, 2020

Senate Motion January 29, 2021

THAT Senate approve the introduction of the Collaborative Specialization in Climate Change as presented with effect from Fall 2021.

2. **Certificate in Science and Policy**
   SCCASP approval: December 15, 2020
   SQAPC approval: January 14, 2021

Senate Motion January 29, 2021

THAT Senate approve the introduction of the Certificate in Science and Policy as presented with effect from Fall 2021.

3. **Minor in Critical Race Studies**
   SCCASP approval: December 15, 2020
   SQAPC approval: January 14, 2021

Senate Motion January 29, 2021

THAT Senate approve the introduction of the Minor in Critical Race Studies as presented with effect from Fall 2021.

4. **Concentration in Public History**
   SCCASP approval: December 15, 2020
   SQAPC approval: January 14, 2021

Senate Motion January 29, 2021

THAT Senate approve the introduction of the Concentration in Public History as presented with effect from Fall 2021.

5. **BEng Mechanical Engineering, Concentration in Integrated Manufacturing**
   SCCASP approval: December 1, 2020
   SQAPC approval: December 10, 2020

Senate Motion January 29, 2021

THAT Senate approve the deletion of the concentration in Integrated Manufacturing from the BENG in Mechanical Engineering program as presented with effect from Fall 2021.

6. **Certificate in American Sign Language**
   SCCASP approval: December 15, 2020
   SQAPC approval: January 14, 2021

Senate Motion January 29, 2021

THAT Senate approve the deletion of the Certificate in American Sign Language as presented with effect from Fall 2021.

7. **BUSI 3701 & BUSI 3702**
   SCCASP approval: December 15, 2020
   SQAPC approval: January 14, 2021

Senate Motion January 29, 2021

THAT Senate approve the introduction of BUSI 3701 & 3702 as presented with effect from Fall 2021.

8. **IPAF 3900 & IPAF 3901**
   SCCASP approval: December 15, 2020
   SQAPC approval: January 14, 2021

Senate Motion January 29, 2021

THAT Senate approve the deletion of IPAF 3900 & 3901 as presented with effect from Fall 2021.

9. **ANTH 4900**
   SCCASP approval: December 15, 2020
   SQAPC approval: January 14, 2021

Senate Motion January 29, 2021

THAT Senate approve the major modification to ANTH 4900 as presented with effect from Fall 2021.

10. **ANTH 4100**
    SCCASP approval: December 15, 2020
    SQAPC approval: January 14, 2021

Senate Motion January 29, 2021

THAT Senate approve the introduction of ANTH 4100 as presented with effect from Fall 2021.

11. **BCS, Mobile Computing & Network Computing Streams**
    SCCASP approval: December 1, 2020
    SQAPC approval: December 10, 2020

Senate Motion January 29, 2021

THAT Senate approve the deletion of the streams in Mobile Computing and Network Computing from the BCS programs as presented with effect from Fall 2021.

12. **STAT 4905**
    SCCASP approval: December 15, 2020
    SQAPC approval: January 14, 2021

Senate Motion January 29, 2021

THAT Senate approve the introduction of STAT 4905 as presented with effect from Fall 2021.

13. **PHD Economics**
    SCCASP approval: November 17, 2020
    SQAPC approval: December 10, 2020

Senate Motion January 29, 2021

THAT Senate approve the major modification to the admission requirements for the PhD in Economics as presented with effect from Fall 2021.

14. **Master of Arts, Art History**
    SCCASP approval: December 15, 2020
    SQAPC approval: January 14, 2021

Senate Motion January 29, 2021

THAT Senate approve the program name change from Art History to Art and Architectural History for the MA programs as presented with effect from Fall 2021.

15. **PHD Mathematics and Statistics**
    SCCASP approval: December 1, 2020
    SQAPC approval: December 10, 2020

Senate Motion January 29, 2021

THAT Senate approve the major modification to the admission requirements for the PhD in Mathematics and Statistics as presented with effect from Fall 2021.

16. **STAT 6909**
    SCCASP approval: October 20, 2020
    SQAPC approval: November 12, 2020

Senate Motion January 29, 2021

THAT Senate approve the introduction of STAT 6909 as presented with effect from Fall 2021.

17. **Master of Public Policy and Administration, Specialization in Data Science**
    SCCASP approval: December 1, 2020
    SQAPC approval: December 10, 2020

Senate Motion January 29, 2021

THAT Senate approve the major modification to the Master of Public Policy and Administration, specialization in Data Science as presented with effect from Fall 2021.

18. **Master of Public Policy and Administration, Concentration in Indigenous Policy and Administration**
    SCCASP approval: December 1, 2020
    SQAPC approval: December 10, 2020

Senate Motion January 29, 2021

THAT Senate approve the major modification to the Master of Public Policy and Administration, concentration in Indigenous Policy and Administration as presented with effect from Fall 2021.

19. **PHD International Affairs**
    SCCASP approval: December 1, 2020
    SQAPC approval: December 10, 2020

Senate Motion January 29, 2021

THAT Senate approve the major modification to the PHD program in International affairs and the introduction of INAF 6400 as presented with effect from Fall 2021.

20. **MA international Affairs, Specialization in Data Science**
    SCCASP approval: December 1, 2020

SQAPC approval: December 10, 2020

Senate Motion January 29, 2021

THAT Senate approve the introduction of the specialization in Data Science to the MA in International Affairs as presented with effect from Fall 2021.

MEMORANDUM

To: Vice-President's Academic and Research Committee (VPARC)

From: Patrick Callery, Sprott School of Business
         Barbara Leckie, Department of English Language and Literature
         Alexandra Mallett, School of Public Policy and Administration
         Ron Miller, Department of Mechanical and Aerospace Engineering
         Jesse Vermaire, Institute for Interdisciplinary and Environmental Sciences and Geography and Environmental Studies

CC: Dr. Dana Brown, Dean, Sprott School of Business
         Dr. Larry Kostiuk, Dean, Faculty of Engineering and Design (FED)
         Dr. Charles Macdonald, Dean, Science
         Dr. Andre Plourde, Dean, Faculty of Public Affairs (FPA)
         Dr. L. Pauline Rankin, Dean, Faculty of Arts and Social Sciences (FASS)
         Dr. Patrice Smith, Dean, Faculty of Graduate and Postdoctoral Affairs (FGPA)

Date: March 10, 2020

Subject: New Proposal – Collaborative Specialization in Climate Change

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Program Description

The study of climate change is a vital area of academic inquiry. Increased interest in examining climate change in recent years, however, has been accompanied by a growing recognition that the sciences alone cannot adequately address the complexity of this field. The proposed collaborative specialization in Climate Change (CSCC), accordingly, brings together all five faculties at Carleton to create an integrated, interdisciplinary program responsive to student demand in this area. The program's content and structure are underpinned by a commitment to the power of interdisciplinary scholarship to promote innovation, drive change, and enhance the sort of creative thinking most urgently needed now. Drawing on Carleton's demonstrated strengths in the area of climate change and its internationally-recognized climate change researchers across the faculties and disciplines, the collaborative specialization will offer a coordinated sequence of study aimed to promote community, collaboration, and academic excellence. The program is set to launch in Fall of 2021.

There are currently no graduate programs on climate change that we are aware of that unite the sciences, social sciences, and humanities in Ontario. Such programs, however, are on the rise internationally, with several new Institutes, Centres, and accompanying programs, opening in a range of locations over the past ten to fifteen years. With innovative programming such as the Master's Program in Sustainable Energy Engineering and Policy (SERG), the Master of Philanthropy and Non-profit Leadership (MPNL) and the Master's program in Infrastructure Protection and International Security (MIPIS), and interdisciplinary groups like the Carleton Climate Commons, Carleton is perfectly poised to make an important contribution in this context. But what we are missing at Carleton is a program that would bring all of these strengths together and allow students to benefit by offering a distinctive and much-desired academic focus not available elsewhere. Such a program will also facilitate connections

and collaborations with the other faculties as well as other environmental and climate groups in the Ottawa area and serve to establish Carleton's reputation as a leader in the study of climate change.

The goal of the CSCC is to empower students with a multidisciplinary perspective and approach in their research, scholarship and studies of climate change. This will be achieved through a formal cross-disciplinary survey course and a research seminar series in climate change science, history, politics, theory, culture, communication and media, adaptation, and mitigation; and (in programs where research is a component of the degree), through climate change focused research or, for course-based degrees, through relevant courses. Students in the CSCC will examine the interconnected, global nature of problems, potential solutions, communities, institutions, and collaborative opportunities in relation to climate change. Students completing the program will be better prepared to enter a global workforce that increasingly attends to risks and develops possible solutions to the climate change problem. This collaborative specialization will also serve as a solid foundation for students seeking to pursue further climate change research.

The CSCC will be a Master's Level specialization, comprising:

- a 1.0 credit course (CLIM 5000, sample outline attached).
- A 0.0 credit seminar series. Three seminars will be organized in each of the fall and winter terms, with the expectation that students will normally attend all six as part of the requirements of the CSCC.
- For programs with a thesis or major research paper, the requirement that the topic of these components should be related to climate change. For course-based programs, the requirement that at least 30% of the courses must be 'in the field' of climate change, as determined by the Steering Committee of the CSCC.

Learning Outcomes

1. Develops an interdisciplinary approach to understanding climate change from the integrated perspectives of the sciences, humanities, engineering, business, and public affairs.

2. Practices a unique set of interdisciplinary skills such as research, evaluation, analysis, synthesis, communication, and collaboration to address an array of climate change issues within their current studies, in future research, and in the workplace.

Current International, National and Provincial Profile

The study of climate change is a rapidly growing field with new programs emerging each year in many locations. But programs that unite the sciences, social sciences, and humanities are still few and far between. In Canada, for example, there are no comparable programs, as far as we can tell, at the graduate level (either MA or PhD).[1] An Environmental Humanities article on English speaking

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[1] Waterloo University offers a Masters of Climate Change housed in their Geography and Environmental Management Department. It does not, however, have the interdisciplinary structure outlined in our proposed program. A short article outlining the importance of interdisciplinary approaches to climate change can be found here: https://agupubs.onlinelibrary.wiley.com/doi/pdf/10.1002/2013EO160003. See here for a list of sustainability programs in Canada at the graduate level: https://www.dal.ca/faculty/sustainability/programs/futurestudies/cdnprogams.html.

Environmental Humanities (EH) programs around the world, as well as EH programs that include the sciences, however, indicates that such programs are emerging in many English-speaking countries. Columbia University, for example, offers an MA in "Climate and Society" and the University of Washington's "Program on Climate Change" offers a Graduate Certificate in the area (while interdisciplinary, this program, however, is science-focused). The Rachel Carson Centre in Germany, however, is perhaps the best-known example of an internationally-recognized interdisciplinary program that addresses issues related to the climate and environment. Establishing the program proposed here will enable Carleton to be a frontrunner in Canada in this context.

The proposed graduate-level collaborative specialization in Climate Change would, accordingly, be unique to Ontario and possibly Canada as a whole.

Mission and Strategic Directions

The Collaborative Specialization in Climate Change (CSCC) is highly consistent with the current Carleton Strategic Integrated Plan and its focus on Sustainable Communities and Global Prosperity. At the same time, it is clearly resonant with emerging themes in the current SIP process, where *sustainability* features prominently as a core value of the University. The CSCC aligns with aspects of the Carleton University vision (to respond to the needs of society today and in the future) and values (interdisciplinary and global outreach). While the impacts of climate change are increasingly being felt real-time by communities around the world, the problem looms larger in terms of future impacts that will affect even larger segments of global society; by developing students fluent in the causes and creative solutions to these dilemmas, Carleton will make a tangible step in line with its vision.

With respect to direct contributions to specific goals articulated in the Strategic Integrated Plan, the collaborative specialization will develop new programs and initiatives that build on academic strengths (accomplished faculty with research expertise in climate change across several departments) and respond to societal needs (Goal 1-1). It will also ensure the employability and future success of students (Goal 3-1) and provide students with opportunities to be knowledgeable, active citizens of a global community (Goal 3-2). We understand that the new Carleton University Strategic Integrated Plan (under development) will continue to add emphasis on sustainability and global prosperity and equity, for which addressing the climate change problem is a primary factor.

Impact on Other Programs

Administratively, the collaborative specialization on Climate Change will be structured as a one (1.0) credit course open to enrollment for graduate students in those departments across the University that opt to offer the CSCC within their degrees and a zero (0.0) credit series of research seminars for which attendance would normally be the only requirement. The collaborative specialization will not draw students away from existing programs, as it is not a separate disciplinary program competing for students. Rather, it will enhance the attractiveness of existing programs on campus by creating a unique interdisciplinary character for these programs. Units opting into the CSCC will have found ways to accommodate its requirements within one or more of their existing programs.

We expect positive impacts on these programs. First, as a true interdisciplinary survey course and seminar, the collaborative specialization will bring diverse viewpoints and disciplinary frameworks from various programs together into a melting pot of ideas and debates. Engagement with such interdisciplinary approaches will encourage students in the specialization to "cross-pollinate" ideas

within home departments, furthering interest in the program. Moreover, the teaching faculty will likewise have the opportunity to improve engagement and collaboration between departments, learning perspectives from each other's fields through participation in course planning, delivery, and student   support.

Societal Need

Many purport that climate change is the most pressing issue of our time and a defining moment for society. It is also an incredibly complex and multifaceted issue that requires collaboration across multiple academic disciplines, community organizations, industries, scientists, and levels of government to address. In addition, the consequences of climate change will not be equally distributed across the planet or across societies, economies, or ecosystems, further increasing the challenges of climate change. Graduates of the Collaborative Specialization in Climate Change (CSCC) will have a unique multidisciplinary perspective on climate change covering topics from all five Faculties at Carleton. Although the students' primary area of expertise will lie in the Faculty where they are pursuing graduate studies, the abilities to work across disciplinary boundaries and understand multiple points of view gained through this collaborative specialization are essential for better understanding and addressing climate change and will be of value to for numerous roles across multiple scales, locally to internationally. These multidisciplinary skills will be highly valued across various career paths (such as industry, business, NGO, government, communication and media, and academia).

Student Demand

Climate change was named the top issue for Canadians[2] going into the federal election of October 2019. The belief that the climate is changing and that actions are required to better manage climate change is a view shared by a majority of Canadians across the country.[3] Climate change has consistently been an important issue of interest for students across disciplines.   Given recent high-profile attention to climate change, such as the climate protests of 2019 – estimated to include 500 000 people in Montreal[4] and thousands here in Ottawa[5] -- sparked by the efforts of teenage activist Greta Thunberg (recently named *Time* magazine's Person of the Year) and others, and increasing disillusionment by young people about the ability of leaders to effectively address climate change, it is expected that student demand will continue to grow.

Since its inception in 2014, graduate students have been actively involved in the Carleton Climate Commons and often ask if Carleton offers any programming in the area. More recently, the founding of the student-created and led Climate Action Carleton in September 2019 generated widespread interest in the university's role in addressing climate change. This group has about 100 student members and 800 followers. Other groups, like Student Energy, indicate an interest in climate change programming from an engineering, science and business focus. While these observations are anecdotal, student focus groups and/or surveys could be conducted to add to the anecdotal reports if desired.

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[2] https://www.nationalobserver.com/2019/09/20/news/climate-change-number-1-concern-canadians-poll-says
[3] https://www.macleans.ca/society/environment/canadians-in-every-riding-support-climate-change-action/
[4] https://montrealgazette.com/news/local-news/live-coverage-greta-thunberg-leads-climate-march-in-montreal
[5] https://ottawacitizen.com/news/local-news/thousands-expected-to-gather-in-ottawa-for-global-climate-strike-protest

Broadly, climate change is an ongoing research area for many Faculty and Graduate Students at Carleton across all Faculties and we anticipate interest in climate change related research to continue to grow. There is an existing and growing body of students in the MASc programs in engineering whose thesis topics are related to climate change, in that they study ways to mitigate or eliminate GHG emissions. These students are likely interested in a broader, multidisciplinary perspective of the problem and would be interested in the program. Similarly, the Sustainable Energy Engineering and Policy (SERG) program, jointly offered by the Department of Mechanical and Aerospace Engineering and the School of Public Policy and Administration (SPPA), is comprised entirely of students learning about and developing policies and technologies to reduce GHG emissions. These students would also be very interested in the CSCC as a way to further their understanding of the challenges. Climate change is also a prominent theme of courses and research conducted by numerous students within SPPA's other programs such as the Master of Public Policy and Administration (MPPA) program and the doctoral program in Public Policy. Within SPPA, estimates are generally that about 10 students per year are working specifically on climate change issues. In the English Department, four students are currently doing MAs in areas related to climate change; these students would welcome the opportunity to do the CSCC. There are over 100 students on the Carleton Climate Commons mailing list and, anecdotally, many of them have expressed interest in such a program. In addition, several members of the rapidly growing Climate Action Carleton group (a group comprised mainly of undergraduates) noted that they would consider continuing their graduate studies at Carleton if a program like the CSCC existed. Many MSc students in the Faculty of Science currently have thesis topics related to climate change or the implication of climate change on ecosystem or human health. These include understanding the implications of climate change on systems from agricultural fields to coral reefs, and the effects of climate change on biogeochemical processes.

The capacity of the specialization is determined by the ability to deliver the core course, CLIM 5000. Under the current model, we would be able to accept up to 20 students per year in the specialization.

Resources

The primary resource associated with the CSCC is the teaching load of the 1.0 credit "Climate Collaboration" course. This will require five faculty members, one from each Faculty participating in the CSCC. To create a truly interdisciplinary specialization, it is important that all five faculty members engage fully with the course, attending all the lectures and meetings and working with students from all Faculties on their project work. This is necessarily more work than a traditional course that is siloed within a single discipline, in terms of organizing and communicating effectively with students from varied backgrounds. It also requires close collaboration between the faculty members co-instructing the course, 26 weeks of 3-hour contact time in the classroom and the additional time to prepare lectures and meet students. Finally, it requires significant coordination to ensure that the activities of all five participating faculty members create a coherent whole.

Given the unique demands of this course, it will be structured such that each Faculty commits to a 0.5-credit teaching load for their respective instructor, and thus a total of 2.5 credits of teaching resources will be allocated to the CSCC. This teaching team would also be responsible for arranging the 0.0 credit research seminar series, in consultation with the Program Coordinator.

The Deans of the five respective faculties have agreed to support this teaching request from existing budgets.

Contract instructors: Contract instructors will not normally be used to deliver this program.

Administrative support: While the program does not, by itself, fill the workload of a full-time administrative staff member, there is an opportunity to create a position to jointly administer the CSCC as well as the SERG program (joint between FED and FPA). The administrator's role could be about 1/3 dedicated to CSCC and 2/3 to SERG. For the CSCC, the administrator's jobs would include enrolling and advising students, promotion and outreach for the program, organizing the seminar series, supporting the coordination of the CSCC's flagship course across 5 faculties, and scheduling/attending/minuting meetings of the CSCC steering committee. There is natural synergy between the CSCC and SERG programs, as they both involve diverse students and faculty from across campus with similar interests in sustainability issues, and therefore both create unique advising challenges best served by a single point of contact. This would also avoid creating an additional workload associated with the specialization for administrators of the individual units involved.

The Deans of FPA and FED have agreed to provide the necessary administrative support for this program from existing budgets.

Library resources: The library report recommends the purchase of a $7190 per year subscription to *Nature Sustainability* to support this specialization. The programs leads agree that the journal would be nice to have, but we do not feel that this resource is essential to the proposed specialization. Carleton already has access to more relevant journals, including *Nature Climate Change*.

Space: Normal general-pool teaching space is required (seminar-based teaching room).

Equipment: None.

Graduate student funding: None.

Business Plan: Not applicable.

Governance

The CSCC Steering Committee comprises one member from each of the five Faculties, chosen by the chairs of participating units (for example, the chairs of any participating units in FED choose the member representing FED.

A Program Coordinator will be appointed jointly by the Deans of FPA and FED in consultation with the other line Deans, and will serve as the Chair of the Steering Committee. The program coordinator will be the main point of contact for administrative staff. Coordinators will normally be appointed to a three-year term.

The steering committee's duties include oversight of curriculum, coordination with participating unit Chairs and Directors on establishing the teaching assignment to CLIM 5000, student advising, and admissions to the program.

The Chair or Director of each unit that participates in the CSCC will be responsible for ensuring that the specialization is included in affiliated Cyclical Program Reviews, while the Chair of the CSCC Steering

Committee will be responsible for providing any necessary information about the CSCC to those reviews. The CSCC Steering Committee Chair will also be responsible for any changes to, and monitoring of, the CSCC that might be required by any CPR action plan.

New Program Proposal

Date Submitted: 10/21/20 10:15 am

Viewing: **TBD-2012 : M.A.Sc. Aerospace Engineering with Collaborative Specialization in Climate Change**

Last edit: 10/21/20 10:15 am

Last modified by: sandrabauer

Changes proposed by: sandrabauer

In Workflow

1. **MAAE ChairDir GR**
2. **ENG Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 08/06/20 6:37 pm
   Joana Rocha
   (joanarocha): Approved
   for MAAE ChairDir GR
2. 10/21/20 10:09 am
   Sandra Bauer
   (sandrabauer): Rollback
   to Initiator
3. 10/21/20 10:16 am
   Sandra Bauer
   (sandrabauer): Approved
   for MAAE ChairDir GR
4. 10/21/20 10:54 am
   Amir Hakami
   (amirhakami): Approved
   for ENG Dean
5. 10/21/20 3:49 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
6. 10/21/20 3:50 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
7. 10/28/20 11:40 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
8. 11/18/20 11:04 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2012
Level	Graduate
Faculty	Faculty of Engineering and Design
Academic Unit	Department of Mechanical and Aerospace Engineering
Degree	Master of Applied Science
Title	M.A.Sc. Aerospace Engineering with Collaborative Specialization in Climate Change

Program Requirements

M.A.Sc. Aerospace Engineering with Collaborative Specialization in Climate Change (5.0 credits)

Requirements:

1. **1.0 credit in:**   **1.0**

    CLIM 5000 [0.0]   **Climate Collaboration**

2. **0.0 credit in:**

    CLIM 5800 [0.0]   **Climate Seminar Series**

3. **1.5 credits in courses offered by the OCIMAE.**   **1.5**

4. **Participation in the Mechanical and Aerospace Engineering seminar series**

5. **2.5 credits in:**   **2.5**

    MECH 5909 [2.5]   **M.A.Sc. Thesis (in the specialization)**

Total Credits	5.0

New Resources	No New Resources
Summary	Adding Climate Change Specialization option for our M.A.Sc. students.
Rationale	Students completing the program will be better prepared to enter a global workforce that increasingly attends to risks and develops possible solutions to the climate change problem. This collaborative specialization will also serve as a solid foundation for students seeking to pursue further climate change research.
Transition/Implementation	No impact.
Program reviewer comments	**sandrabauer (09/18/20 11:40 am):** Created individual entries for Aero/Materials/Mechanical. **sandrabauer (10/21/20 10:09 am):** Rollback: For resubmission to activate workflow update

Key: 2012

New Program Proposal

Date Submitted: 09/09/20 1:16 pm

Viewing: **TBD-2030 : M.A. Anthropology with Collaborative Specialization in Climate Change**

Last edit: 11/18/20 11:04 am

Last modified by: sandrabauer

Changes proposed by: paulawhissell

In Workflow

1. **SOAN ChairDir GR**
2. **AS Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 09/09/20 1:17 pm
   Blair Rutherford
   (blairrutherford):
   Approved for SOAN
   ChairDir GR
2. 09/17/20 9:24 pm
   Peter Thompson
   (peterthompson):
   Approved for AS Dean
3. 10/20/20 4:57 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
4. 10/20/20 5:01 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
5. 10/28/20 11:38 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
6. 11/18/20 11:04 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2030
Level	Graduate

Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of Sociology and Anthropology
Degree	Master of Arts
Title	M.A. Anthropology with Collaborative Specialization in Climate Change

Program Requirements

M.A. Anthropology
with Collaborative Specialization in Climate Change (5.0 credits)

Requirements - Thesis pathway:

1. **1.0 credit in:**   **1.0**

    CLIM 5000 [0.0]   **Climate Collaboration**

2. **0.0 credit in:**

CLIM 5800 [0.0]   **Climate Seminar Series**

3. **1.0 credit in:**   **1.0**

    ANTH 5401 [0.5]   **Theories and Methods I**

    ANTH 5402 [0.5]   **Theories and Methods II**

4. **1.0 credit in approved electives, chosen in consultation with the student's advisor**   **1.0**

5. **2.0 credits in:**   **2.0**

    ANTH 5909 [2.0]   **M.A. Thesis (in the specialization)**

Total Credits   5.0

Requirements - Research essay pathway:

1. **1.0 credit in:**   **1.0**

    CLIM 5000 [0.0]   **Climate Collaboration**

2. **0.0 credit in:**

    CLIM 5800 [0.0]   **Climate Seminar Series**

3. **1.0 credit in:**   **1.0**

    ANTH 5401 [0.5]   **Theories and Methods I**

    ANTH 5402 [0.5]   **Theories and Methods II**

4. **2.0 credit in approved electives, chosen in consultation with the student's advisor**   **2.0**

5. **1.0 credit in:**   **1.0**

    ANTH 5908 [1.0]   **M.A. Research Essay (in the specialization)**

Total Credits   5.0

New Resources	No New Resources
Summary	M.A. Anthropology - add collaborative specialization in Climate Change
Rationale	The Collaborative Specialization in Climate Change (CSCC) is a new, unique specialization at the MA level bridging the sciences, social sciences, and humanities, that will launch in 2021-2022. It is a timely specialization, given how climate change studies cross many disciplines. Adding the CSCC to Anthropology's MA program will have benefits for both Anthropology MA students and for the Department of Sociology and Anthropology. The Specialization offers a collaborative and interdisciplinary approach to climate change studies, with a formal,

cross-disciplinary survey course and a research seminar series in climate change studies, while maintaining a strong foundation in Anthropology (including the required foundation courses: ANTH 5401 and ANTH 5402). It will allow our many MA students interested in climate change studies to examine climate change from a multidisciplinary perspective while being firmly grounded in Anthropology, and to develop a broad, interdisciplinary understanding of the interconnected, global nature of climate change issues. Anthropology as a discipline has many faculty members working on issues that relate to climate change, and a strong history of MA research projects on this issue. In addition, adding the anthropology program may direct students in other departments to climate-change related anthropology and sociology courses for their elective options. The CSCC specialization also offers a thesis, research essay and coursework-only option in Anthropology, like our other specializations. The Anthropology program also benefits from its shared course offering and faculty in the Sociology program.

Transition/Implementation	N/A - new program

| Program reviewer comments | **sandrabauer (11/18/20 11:04 am):** Coursework pathway removed for further consideration per q arising out of GFB regarding sufficient CC content. |

Key: 2030

New Program Proposal

Date Submitted: 09/09/20 1:19 pm

Viewing: **TBD-2034 : M.A. Sociology with Collaborative Specialization in Climate Change**

Last edit: 11/11/20 3:06 pm

Last modified by: sandrabauer

Changes proposed by: paulawhissell

In Workflow

1. **SOAN ChairDir GR**
2. **AS Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 09/09/20 1:26 pm
   Blair Rutherford
   (blairrutherford):
   Approved for SOAN
   ChairDir GR
2. 09/17/20 9:25 pm
   Peter Thompson
   (peterthompson):
   Approved for AS Dean
3. 10/20/20 4:59 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
4. 10/20/20 5:02 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
5. 10/28/20 11:40 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
6. 11/18/20 11:04 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2034
Level	Graduate

Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of Sociology and Anthropology
Degree	Master of Arts
Title	M.A. Sociology with Collaborative Specialization in Climate Change

Program Requirements

M.A. Sociology
with Collaborative Specialization in Climate Change (5.0 credits)

Requirements - Thesis pathway:

1. **1.0 credit in:**   **1.0**

   CLIM 5000 [0.0]   **Climate Collaboration**

2. **0.0 credit in:**

   CLIM 5800 [0.0]   **Climate Seminar Series**

3. **1.0 credit in:**   **1.0**

   SOCI 5005 [0.5]   **Recurring Debates in Social Thought**

   SOCI 5809 [0.5]   **The Logic of the Research Process**

4. **1.0 credit in approved electives, chosen in consultation with the student's advisor**   **1.0**

5. **2.0 credits in:**   **2.0**

   SOCI 5909 [2.0]   **M.A. Thesis (in the specialization)**

Total Credits   5.0

Requirements - Research essay pathway:

1. **1.0 credit in:**   **1.0**

   CLIM 5000 [0.0]   **Climate Collaboration**

2. **0.0 credit in:**

   CLIM 5800 [0.0]   **Climate Seminar Series**

3. **1.0 credit in:**   **1.0**

   SOCI 5005 [0.5]   **Recurring Debates in Social Thought**

   SOCI 5809 [0.5]   **The Logic of the Research Process**

4. **2.0 credit in approved electives, chosen in consultation with the student's advisor**   **2.0**

5. **1.0 credit in:**   **1.0**

   SOCI 5908 [1.0]   **M.A. Research Essay (in the specialization)**

Total Credits   5.0

New Resources	No New Resources
Summary	Add the specialization in Climate Change to the Sociology MA program.
Rationale	The Collaborative Specialization in Climate Change (CSCC) is a new, unique specialization at the MA level bridging the sciences, social sciences, and humanities, that will launch in 2021-2022. It is a timely specialization, given how climate change studies cross many disciplines. Adding the CSCC to Sociology's MA program will have benefits for both Sociology MA students and for the Department of Sociology and Anthropology. The Specialization offers a collaborative and interdisciplinary approach to climate change studies, with a formal, cross-

disciplinary survey course and a research seminar series in climate change studies, while maintaining a strong foundation in Sociology (including the required foundation courses: SOCI 5005 and SOCI 5809). It will allow our many MA students interested in climate change studies to examine climate change from a multidisciplinary perspective while being firmly grounded in Sociology, and to develop a broad, interdisciplinary understanding of the interconnected, global nature of climate change issues. Sociology as a discipline is at the front of addressing issues that related to climate change. In addition, adding the sociology program may direct students in other departments to climate-change related anthropology and sociology courses for their elective options.

| Transition/Implementation | n/a - new program |

Program reviewer
comments

Key: 2034

New Program Proposal

Date Submitted: 09/15/20 4:44 pm

Viewing: **TBD-2040 : M.A. Communication with Collaborative Specialization in Climate Change**

Last edit: 10/20/20 4:57 pm

Last modified by: sandrabauer

Changes proposed by: sandrabauer

In Workflow

1. **COMM ChairDir GR**
2. **PA Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 09/14/20 11:34 am
   Melanie Leblanc
   (melanieleblanc):
   Approved for COMM
   ChairDir GR
2. 09/15/20 9:55 am
   Sandra Bauer
   (sandrabauer): Rollback
   to Initiator
3. 09/18/20 10:55 am
   Melanie Leblanc
   (melanieleblanc):
   Approved for COMM
   ChairDir GR
4. 09/30/20 8:04 pm
   David Mendeloff
   (davidmendeloff):
   Approved for PA Dean
5. 10/20/20 4:57 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
6. 10/20/20 5:01 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
7. 10/28/20 11:39 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
8. 11/18/20 11:04 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2040
Level	Graduate
Faculty	Faculty of Public Affairs
Academic Unit	School of Journalism and Communication (COMM)
Degree	Master of Arts
Title	M.A. Communication with Collaborative Specialization in Climate Change

Program Requirements

M.A. Communication
with Collaborative Specialization in Climate Change (5.0 credits)

Requirements - Research essay pathway:

1. **1.0 credit in:**   **1.0**

     CLIM 5000 [0.0]   **Climate Collaboration**

2. **0.0 credit in:**

     CLIM 5800 [0.0]   **Climate Seminar Series**

3. **1.5 credits in:**   **1.5**

     COMS 5101 [1.0]   **Foundations of Communication Studies**

     COMS 5605 [0.5]   **Approaches to Communication Research**

4. **1.0 credit in:**   **1.0**

     COMS 5908 [1.0]   **Research Essay (in the specialization)**

5. **1.5 credits from the list of optional courses**   **1.5**

Total Credits   5.0

Requirements - Thesis pathway:

1. **1.0 credit in:**   **1.0**

     CLIM 5000 [0.0]   **Climate Collaboration**

2. **0.0 credit in:**

     CLIM 5800 [0.0]   **Climate Seminar Series**

3. **1.5 credits in:**   **1.5**

     COMS 5101 [1.0]   **Foundations of Communication Studies**

     COMS 5605 [0.5]   **Approaches to Communication Research**

4. **2.0 credits in:**   **2.0**

     COMS 5909 [2.0]   **M.A. Thesis (in the specialization)**

5. **0.5 credit from the list of optional courses**   **0.5**

Total Credits   5.0

New Resources	No New Resources

Summary	Adding on a specialization in climate change for both the thesis and research essay options within the MA in Communication
Rationale	COMS is partnering with the Collaborative MA Specialization in Climate Change
Transition/Implementation	n/a

Program reviewer comments

sandrabauer (09/15/20 9:55 am): Rollback: As requested

Key: 2040

New Program Proposal

Date Submitted: 10/21/20 10:12 am

Viewing: **TBD-2047 : M.Eng. Electrical and Computer Engineering with Collaborative Specialization in Climate Change**

Last edit: 10/21/20 10:12 am

Last modified by: sandrabauer

Changes proposed by: sandrabauer

In Workflow

1. **SYST ChairDir GR**
2. **ENG Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 09/18/20 3:24 pm
   James Green
   (jamesgreen): Approved
   for SYST ChairDir GR
2. 10/21/20 10:11 am
   Sandra Bauer
   (sandrabauer): Rollback
   to Initiator
3. 10/21/20 10:15 am
   Sandra Bauer
   (sandrabauer): Approved
   for SYST ChairDir GR
4. 10/21/20 10:54 am
   Amir Hakami
   (amirhakami): Approved
   for ENG Dean
5. 10/21/20 3:49 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
6. 10/21/20 3:50 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
7. 10/28/20 11:42 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
8. 11/18/20 11:05 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2047
Level	Graduate
Faculty	Faculty of Engineering and Design
Academic Unit	Department of Systems and Computer Engineering
Degree	Master of Engineering
Title	M.Eng. Electrical and Computer Engineering with Collaborative Specialization in Climate Change

Program Requirements

M.Eng Electrical and Computer Engineering
with Collaborative Specialization in Climate Change (4.5 credits)

Requirements - by Project (4.5 credits)

1. 1.0 credit in:		**1.0**
CLIM 5000 [0.0]	**Climate Collaboration**	
2. 0.0 credit in:		**0.0**
CLIM 5800 [0.0]	**Climate Seminar Series**	
3. 0.5 credit in:		**0.5**
SYSC 5005 [0.5]	**Optimization Theory and Methods**	
SYSC 5104 [0.5]	**Methodologies For Discrete-Event Modeling And Simulation**	
ELEC 5302 [0.5]	**Renewable and Distributed Energy Resource Technologies**	
SERG 5001 [0.5]	**Sustainable Energy Policy for Engineers**	
SERG 5003 [0.5]	**Energy Evaluation and Assessment Tools**	
or approved Advanced Topic in the area of climate change		
4. 2.5 credits in courses		**2.5**
5. 0.5 credit in:		**0.5**
SYSC 5900 [0.5]	**Systems Engineering Project (in the area of climate change)**	
Total Credits		4.5

Requirements - by Coursework (4.5 credits)

1. 1.0 credit in:		**1.0**
CLIM 5000 [0.0]	**Climate Collaboration**	
2. 0.0 credit in:		**0.0**
CLIM 5800 [0.0]	**Climate Seminar Series**	
3. 0.5 credit in:		**0.5**
SYSC 5005 [0.5]	**Optimization Theory and Methods**	
SYSC 5104 [0.5]	**Methodologies For Discrete-Event Modeling And Simulation**	
ELEC 5302 [0.5]	**Renewable and Distributed Energy Resource Technologies**	
SERG 5001 [0.5]	**Sustainable Energy Policy for Engineers**	

SERG 5003 **[0.5]**　　　　**Energy Evaluation and Assessment Tools**

or approved Advanced Topic in the area of climate change

4. 3.0 credits in courses　　　　　　　　　　　　　　　　　　　**3.0**

Total Credits　　　　　　　　　　　　　　　　　　　　　　　　4.5

New Resources	No New Resources
Summary	Adding collaborative specialization in Climate Change for our MEng project based students.
Rationale	Participation in the VPARC approved collaborative specialization in Climate Change (CSCC) bringing together all five faculties at Carleton. The collaborative specialization will provide a solid foundation for students looking to pursue work/research in a rapidly growing field.
Transition/Implementation	N/a new program

Program reviewer comments	**sandrabauer (10/21/20 10:11 am):** Rollback: For resubmission to activate workflow update

Key: 2047

SERG 5003 **[0.5]**　　　　**Energy Evaluation and Assessment Tools**

or approved Advanced Topic in the area of climate change

New Program Proposal

Date Submitted: 10/21/20 10:12 am

Viewing: **TBD-2046 : M.A.Sc. Electrical and Computer Engineering with Collaborative Specialization in Climate Change**

Last edit: 10/21/20 10:12 am

Last modified by: sandrabauer

Changes proposed by: sandrabauer

In Workflow

1. **SYST ChairDir GR**
2. **ENG Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 09/18/20 3:25 pm
   James Green
   (jamesgreen): Approved
   for SYST ChairDir GR
2. 10/21/20 10:09 am
   Sandra Bauer
   (sandrabauer): Rollback
   to Initiator
3. 10/21/20 10:15 am
   Sandra Bauer
   (sandrabauer): Approved
   for SYST ChairDir GR
4. 10/21/20 10:54 am
   Amir Hakami
   (amirhakami): Approved
   for ENG Dean
5. 10/21/20 3:49 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
6. 10/21/20 3:50 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
7. 10/28/20 11:41 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
8. 11/18/20 11:04 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2046
Level	Graduate
Faculty	Faculty of Engineering and Design
Academic Unit	Department of Systems and Computer Engineering
Degree	Master of Applied Science
Title	M.A.Sc. Electrical and Computer Engineering with Collaborative Specialization in Climate Change

Program Requirements

M.A.Sc. Electrical and Computer Engineering with Collaborative Specialization in Climate Change (5.0 credits)

Requirements:

1. **1.0 credit in:**   **1.0**
   CLIM 5000 [0.0]   **Climate Collaboration**
2. **0.0 credit in:**   **0.0**
   CLIM 5800 [0.0]   **Climate Seminar Series**
3. **1.5 credits in courses**   **1.5**
4. **2.5 credits in:**   **2.5**
   SYSC 5909 [2.5]   **M.A.Sc. Thesis (in the area of climate change)**

Total Credits	5.0

New Resources	No New Resources
Summary	Adding Specialization in Climate Change option for our M.A.Sc students.
Rationale	Participation in the VPARC approved collaborative specialization in Climate Change (CSCC) bringing together all five faculties at Carleton. The collaborative specialization will provide a solid foundation for students looking to pursue work/research in a rapidly growing field.
Transition/Implementation	N/A new program
Program reviewer comments	sandrabauer (10/21/20 10:09 am): Rollback: For resubmission to activate workflow update

Key: 2046

New Program Proposal

Date Submitted: 10/21/20 10:13 am

Viewing: **TBD-2050 : M.Eng. Environmental Engineering with Collaborative Specialization in Climate Change**

Last edit: 11/10/20 5:29 pm

Last modified by: sandrabauer

Changes proposed by: sandrabauer

In Workflow

1. **CIVE ChairDir GR**
2. **ENG Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 09/25/20 9:08 am
   Yasser Hassan
   (yasserhassan): Rollback
   to Initiator
2. 10/20/20 9:53 am
   Yasser Hassan
   (yasserhassan):
   Approved for CIVE
   ChairDir GR
3. 10/21/20 10:11 am
   Sandra Bauer
   (sandrabauer): Rollback
   to Initiator
4. 10/21/20 10:14 am
   Sandra Bauer
   (sandrabauer): Approved
   for CIVE ChairDir GR
5. 10/21/20 10:55 am
   Amir Hakami
   (amirhakami): Approved
   for ENG Dean
6. 10/21/20 3:49 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
7. 10/21/20 3:50 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
8. 10/28/20 11:42 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2050
Level	Graduate
Faculty	Faculty of Engineering and Design
Academic Unit	Department of Civil and Environmental Engineering
Degree	Master of Engineering
Title	M.Eng. Environmental Engineering with Collaborative Specialization in Climate Change

Program Requirements

M.Eng. Environmental Engineering
with Collaborative Specialization in Climate Change (5.0 credits)

Requirements - Project pathway

1. 1.0 credit in: **1.0**

   CLIM 5000 [0.0]   **Climate Collaboration**

2. 0.0 credit in:

   CLIM 5800 [0.0]   **Climate Seminar Series**

3. 0.5 credit from: **0.5**

   ENVE 5105 [0.5]   **Atmospheric Aerosols**

   ENVE 5200 [0.5]   **Climate Change and Engineering**

   ENVE 5201 [0.5]   **Geo-Environmental Engineering**

   ENVE 5205 [0.5]   **Sludge Treatment and Disposal**

   ENVJ 5908 [0.5]   **Anaerobic Digestion**

   ENVJ 5212 [0.5]   **Climate Change Impacts on Water Resources**

   or approved Special Topics in the area of climate change

4. 2.5 credits in courses, with at least 0.5 credit from two different areas of study listed below outside the area of EIA, Sustainability and Climate Change   **2.5**

5. 0.0 credit in:

   ENVE 5800 [0.0]   **Master's Seminar**

6. 1.0 credit in: **1.0**

   ENVE 5900 [1.0]   **Environmental Engineering Project (in the specialization)**

Total Credits   5.0

Requirements - Coursework pathway

1. 1.0 credit in: **1.0**

CLIM 5000 [0.0]   **Climate Collaboration**

2. **0.0 credit in:**

CLIM 5800 [0.0]   **Climate Seminar Series**

3. **1.5 credits from:**   **1.5**

ENVE 5105 [0.5]   **Atmospheric Aerosols**

ENVE 5200 [0.5]   **Climate Change and Engineering**

ENVE 5201 [0.5]   **Geo-Environmental Engineering**

ENVE 5205 [0.5]   **Sludge Treatment and Disposal**

ENVJ 5908 [0.5]   **Anaerobic Digestion**

ENVJ 5212 [0.5]   **Climate Change Impacts on Water Resources**

or approved Special Topics in the area of climate change

4. **2.5 credits in courses, with at least 0.5 credit from two different areas of study listed below outside the area of EIA, Sustainability and Climate Change**   **2.5**

Total Credits	5.0

New Resources	No New Resources
Summary	New program allows MEng students in Environmental Engineering to complete the CSCC introduced by Carleton
Rationale	Environmental Engineering is closely related to climate change and is a natural fit.
Transition/Implementation	no issues
Program reviewer comments	**yasserhassan (09/25/20 9:08 am):** Rollback: As discussed. **sandrabauer (10/21/20 10:11 am):** Rollback: For resubmission to activate workflow update

Key: 2050

New Program Proposal

Date Submitted: 10/21/20 10:13 am

Viewing: **TBD-2049 : M.A.Sc. Environmental Engineering with Collaborative Specialization in Climate Change**

Last edit: 10/21/20 10:13 am

Last modified by: sandrabauer

Changes proposed by: sandrabauer

In Workflow

1. **CIVE ChairDir GR**
2. **ENG Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 10/20/20 9:52 am Yasser Hassan (yasserhassan): Approved for CIVE ChairDir GR
2. 10/21/20 10:10 am Sandra Bauer (sandrabauer): Rollback to Initiator
3. 10/21/20 10:14 am Sandra Bauer (sandrabauer): Approved for CIVE ChairDir GR
4. 10/21/20 10:54 am Amir Hakami (amirhakami): Approved for ENG Dean
5. 10/21/20 3:49 pm Sandra Bauer (sandrabauer): Approved for GRAD Dean
6. 10/21/20 3:50 pm Sandra Bauer (sandrabauer): Approved for PRE GRAD FCC
7. 10/28/20 11:41 am Sandra Bauer (sandrabauer): Approved for GRAD FCC
8. 11/18/20 11:04 am Sandra Bauer (sandrabauer): Approved for GRAD FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2049
Level	Graduate
Faculty	Faculty of Engineering and Design
Academic Unit	Department of Civil and Environmental Engineering
Degree	Master of Applied Science
Title	M.A.Sc. Environmental Engineering with Collaborative Specialization in Climate Change

Program Requirements

M.A.Sc. Environmental Engineering with Collaborative Specialization in Climate Change (5.0 credits)

Requirements:

1. 1.0 credit in: **1.0**

    CLIM 5000 [0.0]   **Climate Collaboration**

2. 0.0 credit in:

    CLIM 5800 [0.0]   **Climate Seminar Series**

3. 1.5 credits in courses, with at least 0.5 credit from two different areas of study listed below outside the area of EIA, Sustainability and Climate Change   **1.5**

4. 0.0 credit in:

ENVE 5800 [0.0]   **Master's Seminar (participation in the graduate student seminar series)**   **0.0**

5. 2.5 credits in: **2.5**

    ENVE 5909 [2.5]   **Master's Thesis (in the specialization)**

Total Credits	5.0

New Resources	No New Resources
Summary	New program allows MASc students in Environmental Engineering to complete the CSCC introduced by Carleton
Rationale	Environmental Engineering is closely related to climate change and is a natural fit.
Transition/Implementation	not an issue
Program reviewer comments	**sandrabauer (10/21/20 10:10 am):** Rollback: For resubmission to activate workflow update

Key: 2049

New Program Proposal

Date Submitted: 08/31/20 2:39 pm

Viewing: **TBD-2022 : M.A. English with Collaborative Specialization in Climate Change**

Last edit: 11/10/20 5:26 pm

Last modified by: sandrabauer

Changes proposed by: judykatz

In Workflow

1. **ENGL ChairDir GR**
2. **AS Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 08/31/20 2:42 pm
   Judy Katz (judykatz):
   Approved for ENGL
   ChairDir GR
2. 09/17/20 9:25 pm
   Peter Thompson
   (peterthompson):
   Approved for AS Dean
3. 10/20/20 4:58 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
4. 10/20/20 5:01 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
5. 10/28/20 11:39 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
6. 11/18/20 11:04 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2022
Level	Graduate

Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of English
Degree	Master of Arts
Title	M.A. English with Collaborative Specialization in Climate Change

Program Requirements

M.A. English
with Collaborative Specialization in Climate Change (4.5 credits)

Requirements - Coursework pathway (4.5 credits)

1. **1.0 credit in:**   **1.0**

    CLIM 5000 [0.0]   **Climate Collaboration**

2. **0.0 credit in:**

    CLIM 5800 [0.0]   **Climate Seminar Series**

3. **2.5 credits in ENGL at the 5000-level (excluding ENGL 5908 and ENGL 5909)**   **2.5**

4. **0.5 credit in a graduate seminar with sufficient Climate Change content in ENGL or another department, as approved by the Coordinator of the Climate Change Specialization.**   **0.5**

5. **0.5 credit in:**   **0.5**

    ENGL 5005 [0.5]   **M.A. Seminar**

Total Credits   4.5

Requirements - Research essay pathway (4.5 credits)

1. **1.0 credit in:**   **1.0**

    CLIM 5000 [0.0]   **Climate Collaboration**

2. **0.0 credit in:**

    CLIM 5800 [0.0]   **Climate Seminar Series**

3. **0.5 credit in:**   **0.5**

    ENGL 5005 [0.5]   **M.A. Seminar**

4. **2.0 credits in ENGL at the 5000 level (excluding ENGL 5908)**   **2.0**

5. **1.0 credit in:**   **1.0**

    ENGL 5908 [1.0]   **Research Essay (in the specialization)**

Total Credits   4.5

Requirements - Thesis pathway:

1. **1.0 credit in:**   **1.0**

    CLIM 5000 [0.0]   **Climate Collaboration**

2. **0.0 credit in:**

    CLIM 5800 [0.0]   **Climate Seminar Series**

3. **1.0 credit in ENGL at the 5000-level (excluding ENGL 5909)**   **1.0**

4. **0.5 credit in:**   **0.5**

    ENGL 5005 [0.5]   **M.A. Seminar**

5. **2.0 credits in:**   **2.0**

    ENGL 5909 [2.0]   **M.A. Thesis (in the specialization)**

Total Credits   4.5

New Resources   No New Resources

Summary   Add new Specialization in Climate Change.

Rationale   Participation in the new collaborative Specialization in Climate Change will enable English
                                 students to widen the scope of their degree, prepare them for work in a rapidly growing
                                 field, and allow them to contribute to a critical arena of study today.

Transition/Implementation   No impact.

Program reviewer
comments   **sandrabauer (09/18/20 12:45 pm):** Reformatted into three tables, standard CS presentation

Key: 2022

New Program Proposal

Date Submitted: 08/04/20 2:33 pm

Viewing: **TBD-2020 : M.B.A. with Collaborative Specialization in Climate Change**

Last edit: 11/11/20 2:58 pm

Last modified by: sandrabauer

Changes proposed by: jessicawhitney

In Workflow

1. **BUSI ChairDir GR**
2. **BUS Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 09/01/20 4:18 pm
   Robin Ritchie
   (robinritchie): Approved
   for BUSI ChairDir GR
2. 09/17/20 8:26 pm
   Robin Ritchie
   (robinritchie): Approved
   for BUS Dean
3. 10/20/20 4:55 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
4. 10/20/20 5:02 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
5. 10/28/20 11:41 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
6. 11/18/20 11:04 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2020
Level	Graduate

Faculty	Sprott School of Business
Academic Unit	School of Business
Degree	Master of Business Administration
Title	M.B.A. with Collaborative Specialization in Climate Change

Program Requirements

M.B.A.
with Collaborative Specialization in Climate Change (8.5 credits)

Requirements:

1. **1.0 credit in**   **1.0**

   CLIM 5000 [0.0]   **Climate Collaboration**

2. **0.0 credit in:**

   CLIM 5800 [0.0]   **Climate Seminar Series**

3. **0.25 credit in**   **0.25**

   BUSI 5108 [0.25]   **Sustainable Business Development**

4. **1.0 credit in elective specialization courses designated as having sufficient climate change content, within the**   **1.0**
   School of Business or elsewhere, with permission of the School of Business.

5. **4.25 credits in compulsory core courses**   **4.25**

6. **1.0 credit in elective courses**   **1.0**

7. **1.0 credit in:**   **1.0**

   BUSI 5999 [1.0]   **Internship [1]**

8. **0.0 credit in**

   BUSI 5998 [0.0]   **MBA Skills Workshop [2]**

Total Credits   8.5

[1] Students with less than two (2) years of professional employment experience must
successfully complete BUSI 5999 [1.0] Internship in order to graduate. Students with
two or more years work experience may apply for an exemption.

[2] Non-credit required skills workshop.

New Resources	No New Resources
Summary	Adding a collaborative specialization in Climate Change to the MBA program
Rationale	VPARC approved a collaborative specialization in climate change (CSCC) with all participating faculties (five line-faculties and the FGPA).
Transition/Implementation	The CSCC will be structured as a 1.0 credit course open to enrollment for graduate students in those departments across the University that opt to offer the CSCC within their degrees and attendance of a 0.0 credit series of research seminars. The Climate Collaboration course will be taught by five faculty members, one from each Faculty (FED, FS, FASS, FPA,Sprott) participating in the CSCC.
Program reviewer	**sandrabauer (10/20/20 4:55 pm):** formatting

comments

Key: 2020

New Program Proposal

Date Submitted: 10/21/20 10:12 am

Viewing: **TBD-2044 : M.A.Sc. Materials Engineering with Collaborative Specialization in Climate Change**

Last edit: 10/21/20 10:12 am

Last modified by: sandrabauer

Changes proposed by: sandrabauer

In Workflow

1. **MAAE ChairDir GR**
2. **ENG Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 09/18/20 1:12 pm
   Sandra Bauer
   (sandrabauer): Approved
   for MAAE ChairDir GR
2. 10/21/20 10:10 am
   Sandra Bauer
   (sandrabauer): Rollback
   to Initiator
3. 10/21/20 10:14 am
   Sandra Bauer
   (sandrabauer): Approved
   for MAAE ChairDir GR
4. 10/21/20 10:54 am
   Amir Hakami
   (amirhakami): Approved
   for ENG Dean
5. 10/21/20 3:49 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
6. 10/21/20 3:50 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
7. 10/28/20 11:41 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
8. 11/18/20 11:04 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2044
Level	Graduate
Faculty	Faculty of Engineering and Design
Academic Unit	Department of Mechanical and Aerospace Engineering
Degree	Master of Applied Science
Title	M.A.Sc. Materials Engineering with Collaborative Specialization in Climate Change

Program Requirements

M.A.Sc. Materials Engineering
with Collaborative Specialization in Climate Change (5.0 credits)

Requirements:

1. **1.0 credit in:**   **1.0**

     CLIM 5000 [0.0]   **Climate Collaboration**

2. **0.0 credit in:**

     CLIM 5800 [0.0]   **Climate Seminar Series**

3. **1.5 credits in courses offered by the OCIMAE.**   **1.5**

4. **Participation in the Mechanical and Aerospace Engineering seminar series**

5. **2.5 credits in:**   **2.5**

     MECH 5909 [2.5]   **M.A.Sc. Thesis (in the specialization)**

Total Credits	5.0

New Resources	No New Resources
Summary	Add Climate Change Specialization to MASc Materials Engineering
Rationale	Students completing the program will be better prepared to enter a global workforce that increasingly attends to risks and develops possible solutions to the climate change problem. This collaborative specialization will also serve as a solid foundation for students seeking to pursue further climate change research.
Transition/Implementation	n/a - new program
Program reviewer comments	**sandrabauer (09/18/20 1:11 pm):** Created individual entries for Aerospace/Materials/Mech. **sandrabauer (10/21/20 10:10 am):** Rollback: For resubmission to activate workflow update

Key: 2044

New Program Proposal

Date Submitted: 07/23/20 3:32 pm

Viewing: **TBD-2011 : M.Sc. Management with Collaborative Specialization in Climate Change**

Last edit: 11/18/20 10:39 am

Last modified by: sandrabauer

Changes proposed by: melissadoric

In Workflow

1. **BUSI ChairDir GR**
2. **BUS Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 07/29/20 2:45 pm
   Shaobo Ji (shaoboji):
   Approved for BUSI
   ChairDir GR
2. 07/29/20 2:48 pm
   Shaobo Ji (shaoboji):
   Approved for BUS Dean
3. 10/20/20 4:56 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
4. 10/20/20 5:03 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
5. 10/28/20 11:43 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
6. 11/18/20 11:05 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2011
Level	Graduate
Faculty	Sprott School of Business

Academic Unit	School of Business
Degree	Master of Science
Title	M.Sc. Management with Collaborative Specialization in Climate Change

Program Requirements

M.Sc. Management
with Collaborative Specialization in Climate Change (5.0 credits)

Requirements (5.0 credits):

1. **1.0 credit from:**   **1.0**

    CLIM 5000 [0.0]   **Climate Collaboration**

2. **0.0 credit in:**

    CLIM 5800 [0.0]   **Climate Seminar Series**

3. **1.5 credits in:**   **1.5**

    BUSI 5980 [0.5]   **Foundations of Management Theory and Research**

    BUSI 5981 [0.5]   **Statistics for Business Research**

    BUSI 5982 [0.5]   **Research Methodology in Business**

4. **0.5 credit from:**   **0.5**

    BUSI 5983 [0.5]   **Qualitative Research Design**

    BUSI 5984 [0.5]   **Quantitative Research Design**

5. Completion of the Research Tutorial

6. **2.0 credits in:**   **2.0**

    BUSI 5989 [2.0]   **M.Sc. Thesis (in the specialization)**

Total Credits		5.0

New Resources	No New Resources
Summary	Adding a collaborative specialization in Climate Change to the MSc in Management program.
Rationale	VPARC approved a collaborative specialization in climate change (CSCC) with all participating faculties (five line-faculties and the FGPA).
Transition/Implementation	The CSCC will be structured as a 1.0 credit course open to enrollment for graduate students in those departments across the University that opt to offer the CSCC within their degrees and attendance of a 0.0 credit series of research seminars. The Climate Collaboration course will be taught by five faculty members, one from each Faculty (FED, FS, FASS, FPA,Sprott) participating in the CSCC.
Program reviewer comments	**shaoboji (07/29/20 2:45 pm):** Change has been reviewed and approved by the Sprott MSc Management CRC and the Sprott Faculty Board. **shaoboji (07/29/20 2:48 pm):** Approve and submit to FGPA for approval. - on behalf of Sprott Dean. Shaobo Ji **sandrabauer (11/18/20 10:39 am):** Added 'in the specialization' to thesis

New Program Proposal

Date Submitted: 10/21/20 10:12 am

Viewing: **TBD-2045 : M.A.Sc. Mechanical Engineering with Collaborative Specialization in Climate Change**

Last edit: 10/21/20 10:12 am

Last modified by: sandrabauer

Changes proposed by: sandrabauer

In Workflow

1. **MAAE ChairDir GR**
2. **ENG Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 09/18/20 1:12 pm
   Sandra Bauer
   (sandrabauer): Approved
   for MAAE ChairDir GR
2. 10/21/20 10:10 am
   Sandra Bauer
   (sandrabauer): Rollback
   to Initiator
3. 10/21/20 10:14 am
   Sandra Bauer
   (sandrabauer): Approved
   for MAAE ChairDir GR
4. 10/21/20 10:54 am
   Amir Hakami
   (amirhakami): Approved
   for ENG Dean
5. 10/21/20 3:49 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
6. 10/21/20 3:50 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
7. 10/28/20 11:41 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
8. 11/18/20 11:04 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2045
Level	Graduate
Faculty	Faculty of Engineering and Design
Academic Unit	Department of Mechanical and Aerospace Engineering
Degree	Master of Applied Science
Title	M.A.Sc. Mechanical Engineering with Collaborative Specialization in Climate Change

Program Requirements

M.A.Sc. Mechanical Engineering
with Collaborative Specialization in Climate Change (5.0 credits)

Requirements:

1. 1.0 credit in: **1.0**

    CLIM 5000 [0.0]   **Climate Collaboration**

2. 0.0 credit in:

    CLIM 5800 [0.0]   **Climate Seminar Series**

3. 1.5 credits in courses offered by the OCIMAE.   **1.5**

4. Participation in the Mechanical and Aerospace Engineering seminar series

5. 2.5 credits in: **2.5**

    MECH 5909 [2.5]   **M.A.Sc. Thesis (in the specialization)**

Total Credits	5.0

New Resources	No New Resources
Summary	Add Climate Change Specialization to MASc Mechanical Engineering
Rationale	Students completing the program will be better prepared to enter a global workforce that increasingly attends to risks and develops possible solutions to the climate change problem. This collaborative specialization will also serve as a solid foundation for students seeking to pursue further climate change research.
Transition/Implementation	n/a - new program
Program reviewer comments	**sandrabauer (09/18/20 1:12 pm):** Created individual entries for aero/materials/mech **sandrabauer (10/21/20 10:10 am):** Rollback: For resubmission to activate workflow update

Key: 2045

New Program Proposal

Date Submitted: 10/21/20 10:13 am

Viewing: **TBD-2048 : M.Eng. Sustainable Energy with Collaborative Specialization in Climate Change**

Last edit: 11/11/20 12:01 pm

Last modified by: sandrabauer

Changes proposed by: sandrabauer

In Workflow

1. **SERG ChairDir GR**
2. **ENG Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 09/21/20 4:33 pm
   Ron Miller (ronmiller):
   Approved for SERG
   ChairDir GR
2. 10/21/20 10:11 am
   Sandra Bauer
   (sandrabauer): Rollback
   to Initiator
3. 10/21/20 10:15 am
   Sandra Bauer
   (sandrabauer): Approved
   for SERG ChairDir GR
4. 10/21/20 10:55 am
   Amir Hakami
   (amirhakami): Approved
   for ENG Dean
5. 10/21/20 3:49 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
6. 10/21/20 3:50 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
7. 10/28/20 11:43 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
8. 11/18/20 11:05 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2048
Level	Graduate
Faculty	Faculty of Engineering and Design
Academic Unit	Sustainable Energy Program
Degree	Master of Engineering
Title	M.Eng. Sustainable Energy with Collaborative Specialization in Climate Change

Program Requirements

M.Eng. Sustainable Energy
with Collaborative Specialization in Climate Change (5.0 Credits)

Requirements:

1. **1.0 credit in:**   **1.0**

   CLIM 5000 [0.0]   **Climate Collaboration**

2. **0.0 credit in:**

   CLIM 5800 [0.0]   **Climate Seminar Series**

3. **2.0 credits in:**   **2.0**

   SERG 5001 [0.5]   **Sustainable Energy Policy for Engineers**

   SERG 5003 [0.5]   **Energy Evaluation and Assessment Tools**

   SERG 5004 [1.0]   **Applied Interdisciplinary Project**

4. **0.0 credit in:**

   SERG 5800 [0.0]   **Sustainable Energy Seminar**

5. **2.0 credits in:**   **2.0**

Mechanical Engineering focus:

Graduate-level MECH courses

or

Electrical Engineering focus:

Graduate level ELEC, SYSC or EACJ courses

Total Credits	5.0

New Resources	No New Resources
Summary	We are offering the new Climate Change Specialization as an option for the MEng Sustainable Energy program. In addition to completing 2.0 credits in SERG courses, students will take CLIM 5000 (1.0 credit) and 2.0 credits in technical engineering courses.
Rationale	1. Students will take CLIM 5000 instead of 1.5 credits in Mechanical Energy Conversion courses, Efficient Electrical Energy Systems courses, or Sustainable Energy Policy courses. 2. Students will be required to take 2.0 technical engineering courses (this has increased from 1.5).

Transition/Implementation   No Impact

Program reviewer
comments   **sandrabauer (10/21/20 10:11 am):** Rollback: For resubmission to activate workflow update

Key: 2048

Associated Courses (Minor Modifications)

Collaborative Specialization in Climate Change

Course Code	Course Name
CLIM 5000	Climate Collaboration
CLIM 5800	Climate Seminar Series

Institutional Quality Assurance Process

Library Report for Collaborative Specialization in Climate Change

New Program

Date: February 7, 2020

Compiled by: Sally Sax, Business, Public Affairs, and Legal Studies Collections Librarian

Submitted to: Sandra Bauer, Program Officer, Faculty of Graduate & Postdoctoral Affairs

cc Amber Lannon, Interim University Librarian
Laura Newton Miller, Department Head, Collections & Assessment
David Sharp, Head of Acquisitions
Patti Harper, Head of Research Support Services

Overview and Recommendations

An analysis of Carleton University Library's information resources and services in support of the program demonstrates that the Library would require the following funds for collections in order to be able to support it:

- $7190 CDN annually in ongoing funds (subscription)- Nature Sustainability Journal

See Appendix for a costed list of the required title.

Library Collections

Subject Specific

The Library's collection includes a range of resources from the sciences, engineering, social sciences, business, and humanities that support the Collaborative Specilaization in Climate Change. The Library also subscribes to several journals focusing on different aspects of climate change including *Climate Change* (Springer Nature), *Climate Change* (Wiley interdisciplinary reviews), *Current Climate Change Reports* (Spinger) and *International Journal of Climate Change Strategies and Management* (Emerald Publishing).

During the 2018/2019 academic year, the Library's spending for collection in all areas was about $6.8 million. 85% of the entire collections budget is spent on electronic resources. About $3.1 million was spent on general electronic resources which benefit all subject areas.

The following shows the amounts spent on electronic resources (databases, journals, ebooks, indexes), print journals, and monographs related to the Faculties of Arts and Social Sciences, Business, Public Affairs, Engineering and Design, and Science, for the past seven years:

Business:
Carleton Library Spending Over Seven Years

Legend: Monographs, Print Serials, E-Resources

Public Affairs:
Carleton Library Spending Over Seven Years

Legend: Monographs, Print Serials, E-Resources

Engineering & Design:
Carleton Library Spending Over Seven Years

Science:
Carleton Library Spending Over Seven Years
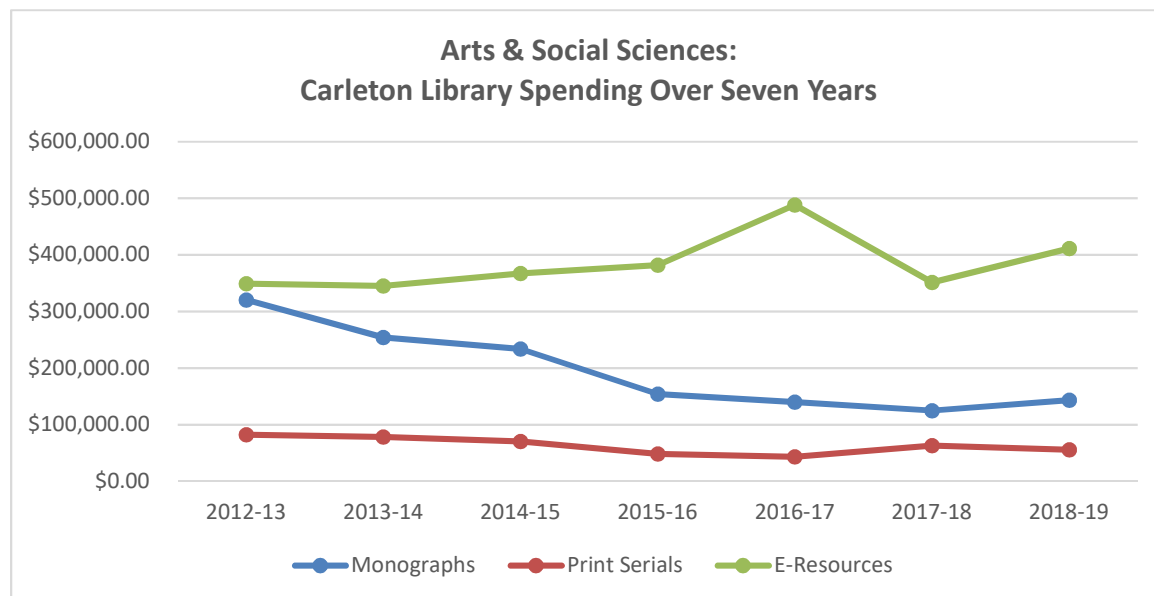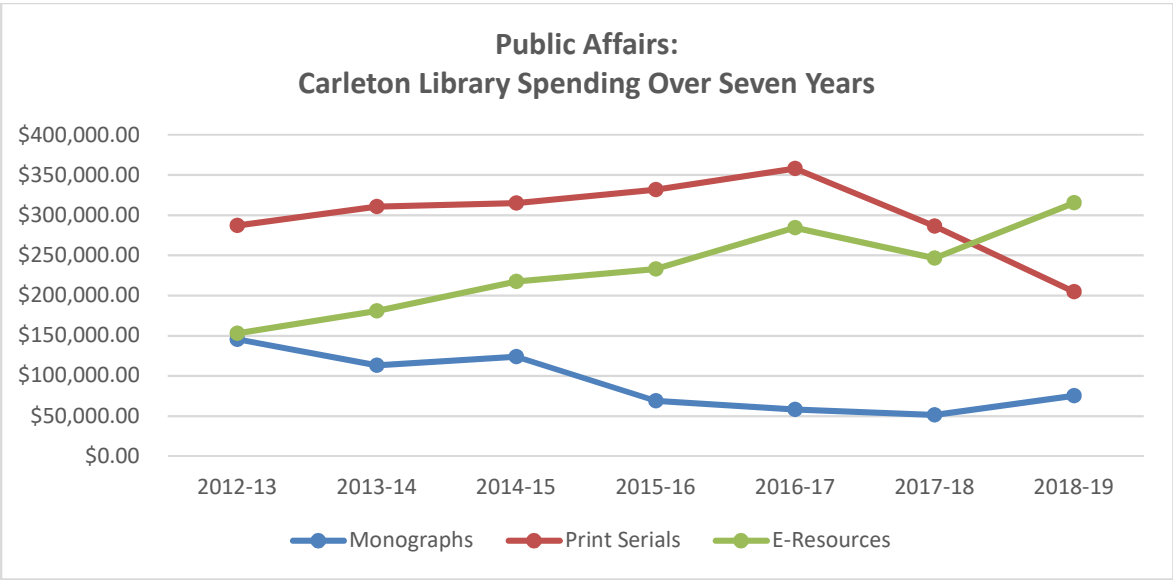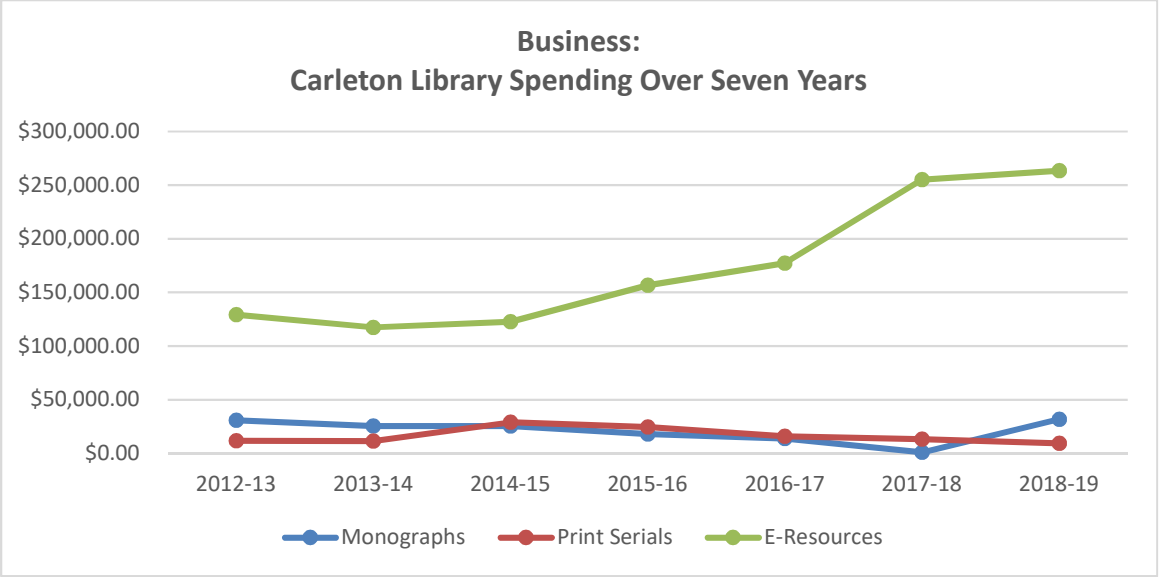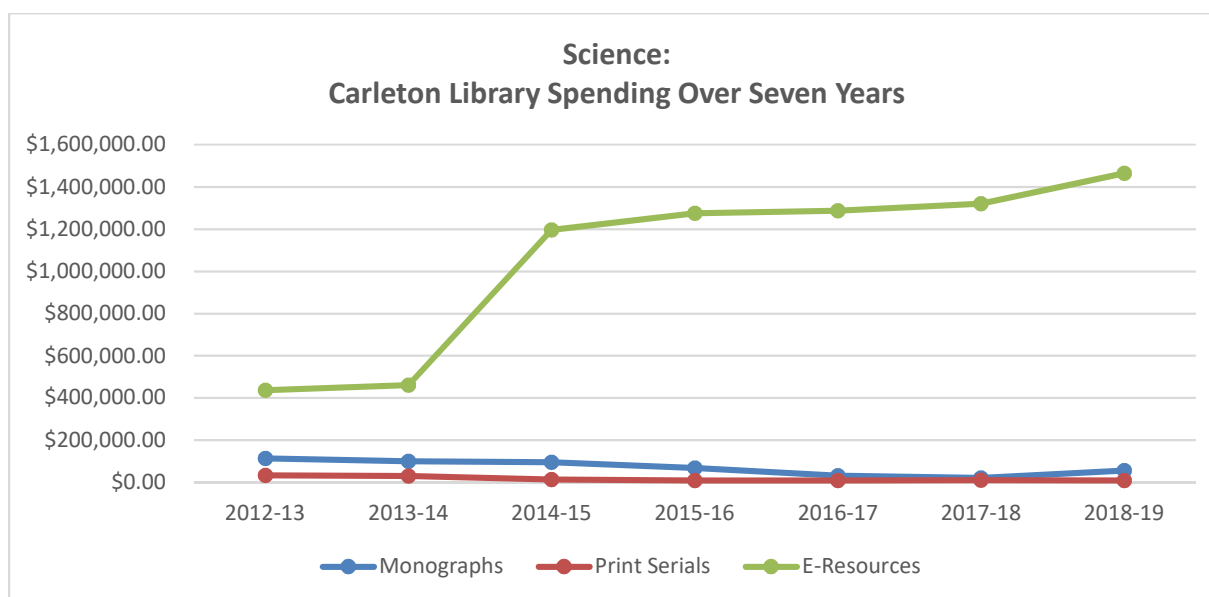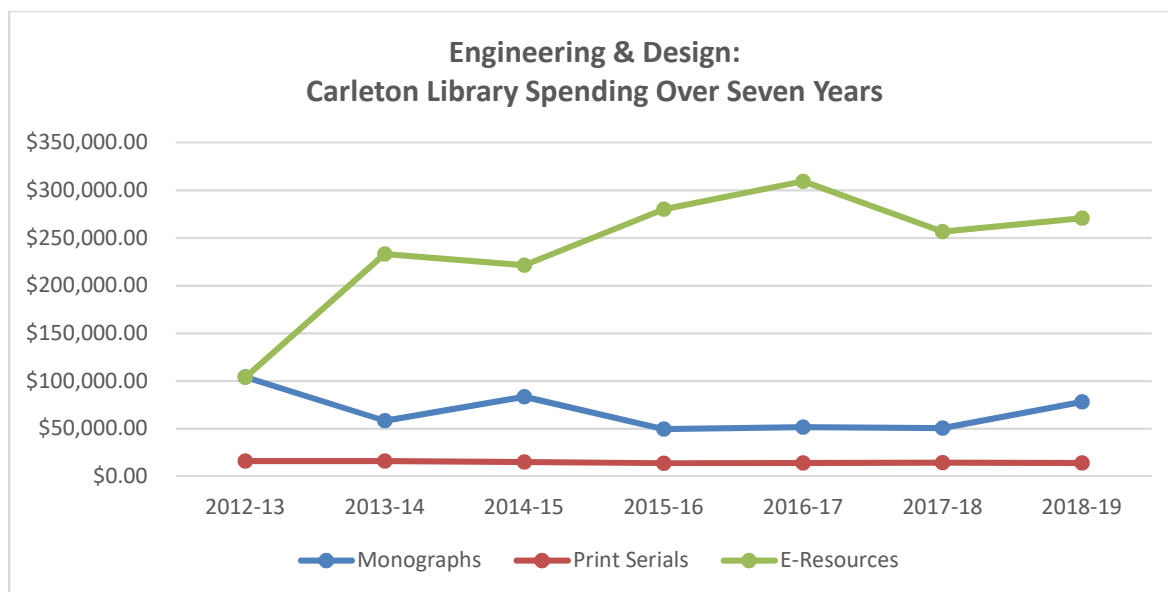
Teaching, Learning, and Research

The information-literate student is one who is able to access information efficiently, critically assess it, assimilate and synthesize it effectively. The Library's programs and services are grounded in Ontario's Quality Assurance Framework, articulated in *Ensuring the Value of University Degrees in Ontario*, the Council of Ontario Universities' guide to degree level expectations in the province.

The Librarians and Subject Specialists work collaboratively with faculty to address students' information competencies through a number of methods, including the following:

Instruction, Teaching, and Practicums

A total of 505 in-class instruction sessions were provided by Library staff in all subject areas during 2018-2019, and a total of 16,989 students attended those sessions. The Librarians and Subject Specialists designs classes and practicum opportunities to meet the needs of specific assignments and course requirements while addressing broad learning objectives.

The Library offers workshops for graduate students in research and writing through the Faculty of Graduate and Postdoctoral Affairs (FGPA). FGPA hosts Grad Navigate: a hub of graduate-specific workshops and services that assist graduate students in navigating different aspects of their graduate school experience and developing professional skills. Examples include (but are not limited to) workshops about copyright, citation management, research data management, NVIVO, scholarly journal writing, research impact, and data visualization].

Learning Support – Provided Online

The Library website (library.carleton.ca) is designed to support each step of the research process: identifying, accessing, borrowing, evaluating, and citing resources. Google Analytics recorded over 1 million visits to the Library website during 2018/19. Library users can now easily conduct a comprehensive search of the entire collection using the Omni search interface.

Highlights of the Library website include:

- Subject Guide for Climate Change
    - https://library.carleton.ca/research/subject-guides/climate-change-detailed-guide
- Subject Guide for Sustainability Studies
    - https://library.carleton.ca/research/subject-guides/sustainability-studies-detailed-guide
- Subject Guides for Sustainable and Renewable Energy
    - https://library.carleton.ca/research/subject-guides/sustainable-and-renewable-energy-public-policy-and-statistics-detailed-guide
    - https://library.carleton.ca/research/subject-guides/sustainable-and-renewable-energy-stream-smart-technologies-power-generation-and-distribution-detailed

Research Partnerships

Active research is the foundation of a strong academic program, and an increasingly important part of student learning and development. The Library provides resources, services, and expertise to facilitate the Carleton research community at all levels and through all stages of the research process. This research support is provided at key service points, and through consultations and more formal collaborations.

Services

Individual Research Consultations

Library staff provided 2949 individual research consultations in 2018/19 for all faculties. Consultations can be scheduled for quantitative and qualitative research, as well as for GIS support.

Research Help Desks

Onsite research help is provided through two service points: a Research Help desk on the main floor of the Library and a help desk in Archives and Research Collections (ARC). These two service points had a total of 5994 visits in 2018/19. This service is supplemented by extended online Ask a Librarian CHAT service Monday-Thursday, 10:00-22:00, Friday 10:00-17:00, and weekends 12:00-18:00. (952 Carleton patrons questions were answered in the last year)*.* Onsite Research Help desk hours are weekdays 10:00-18:00, and ARC in-person research help hours are weekdays 09:00-12:00 and 13-16:00

Results from recent user surveys show that the Library performs well in providing off-campus access to resources and services, and that these resources help people to be successful at university. The Library also does well at providing accurate answers to questions and providing course reserves that help both faculty and students.

General Information about the Library

Carleton Library consists of five stories, totaling over 214 thousand square feet. Two floors are dedicated to silent study, while three others allow for quiet conversation. As of the Fall of 2017, the Library had a total of 2320 seats for students. This included 176 public computers and 41 bookable group study rooms. User surveys show the need for more group and silent spaces with outlets for power, and so renovations throughout the Library in the past few years continue to focus on new study space for students*.*

The Library has dedicated graduate study spaces assigned on a first come, first served basis. These include large carrels, desks in shared study rooms, and graduate lockers.

The Discovery Centre is a 9,500 square foot collaborative workspace for undergraduate research. This dynamic learning environment is outfitted with ergonomic, accessible and stylish furniture as well as state-of-the-art technology. Complete with three Library Laboratories (a gaming lab, a learning lab, and a multimedia lab), this multi-purpose space can be adapted to suit a wide range of needs.

The New Sun Joy Maclaren Adaptive Technology Centre provides Carleton University students with disabilities, who have been referred by centrally on campus, to a pleasant comfortable place to do university work using technology adapted to their needs.

As of 2017, the Library's collection includes 1.8 million printed monographs and over 870 thousand e-books, and licensed access to over 78 thousand electronic journals. In addition, the Library has substantial collections of government documents and other resources, maps, data, rare books and other special research collections, printed journals, archives, theses, multimedia resources (audio, DVD, streaming video), musical scores, computer games, emerging technology, as well as licensed access to a broad range of full-text and indexing databases. For a snapshot of details, see Appendix.

Collection librarians and subject specialists work together with the Department Head, Collections & Assessment to build and maintain the Library's collection by developing subject-specific collection policies that guide the systematic selection of materials. The Library also provides a request form on its website where a user may suggest a book or other item for purchase. Although the majority of monographs are collected in print format, the library is increasing its e-book collections. Students and faculty already have access to many e-books in a wide range of subjects and disciplines.

In order to enhance its purchasing power (particularly for electronic resources), the Library is an active member of two major cooperative partnerships: the Ontario Council of University Libraries (OCUL), a

consortium of the 21 academic libraries in the province; and the Canadian Research Knowledge Network (CRKN), a consortium of 75 academic libraries across the country.

The Library's annual acquisitions budget for the 2018/2019 fiscal year is $7.2 million, and its staffing and operating budget is $11.8 million.

The Library acquisitions budget is not protected from inflation, exchange rates, or cuts, which often challenges the Library's ability to provide all the necessary resources in support of teaching, learning, and research at Carleton. Consideration of the funds necessary for the Library's acquisitions budget is part of the academic planning and Quality Assurance processes for new programs. For many years, Carleton's acquisitions budget has been small in comparison to the national average of academic library budgets, and it still has some catching up to do. However, the gap is narrowing, thanks to recent yearly increases to the Library's base budget. The Library is dedicated to regular assessment of its resources and services. Staff use an assortment of qualitative and quantitative techniques to evaluate collections and services in order to make sound decisions within budget parameters.

The Library strongly supports the principles and practices of open access. The University's institutional repository, CURVE, was established in 2011 and is maintained by the Library. It includes not only a growing archive of the broad intellectual output of the University, but also digitized versions of most of the theses accepted at Carleton since 1955 – and as of 2014 houses all new Carleton theses deposited electronically. The Library contributes to CURIE, the University's program to provide funding for faculty and researchers who are publishing in open access journals, and also hosts 10 OA journals online using the Open Journal Systems management and publishing system.

Appendix: Costed List of Collections and Services Required to Support Collaborative Specialization in Climate Change

Nature Sustainability: $7190 CAD annually in ongoing funds

The New Program proposal for the Collaborative Specialization in Climate Change's mission and strategic direction states: The Collaborative Specialization in Climate Change (CSCC) is highly consistent with the current Carleton Strategic Integrated Plan and its focus on Sustainable Communities and Global Prosperity. At the same time, it is clearly resonant with emerging themes in the current SIP process, where sustainability features prominently as a core value of the University.

The Library proposes adding the journal Nature Sustainability to its collection to support the Climate Change Collaborative Specialization.

Nature Sustainability will cover topics including agriculture and food security, biodiversity conservation, circular economy, cities and urbanisation, climate change in holistic context, development, ecosystem services, education, energy, environmental behaviour, environmental degradation, environmental law, green infrastructure, health and environment, human population, innovation, land use and land use change, natural capital, natural resources management, policy, pollution, poverty, supply chain, waste, water–energy–food and water-soil-waste connections and others, all as related to sustainability.[1]

Carleton would subscribe to Nature Sustainability through the Ontario Council of University Libraries (OCUL), thereby securing a consortial discount on this title. Nature Sustainability is priced at $5407 USD, approximately $7190 CAD.

The Library acquisitions budget is not protected from inflation, exchange rates, or cuts, which often challenges the Library's ability to provide all the necessary resources in support of teaching, learning, and research at Carleton. Since this is a new interdisciplinary journal from a renowned publisher, the Library feels that requests will only increase (having already received a request for a subscription from a faculty member). At this point our budget is such that when we get a new subscription, we have to cancel something else in order to afford it. It will be difficult to try and cut a different general product to subscribe to this journal.

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[1] https://www.nature.com/natsustain/about/aims

AT A GLANCE: CARLETON UNIVERSITY LIBRARY

Statistics as of May 1, 2019 except where indicated; Some numbers lower in 2017-18 because of labour disruption

Teaching, Learning, & Research

Library Instruction Sessions

 # Participants

Research Experience

Regular Loans & Renewals
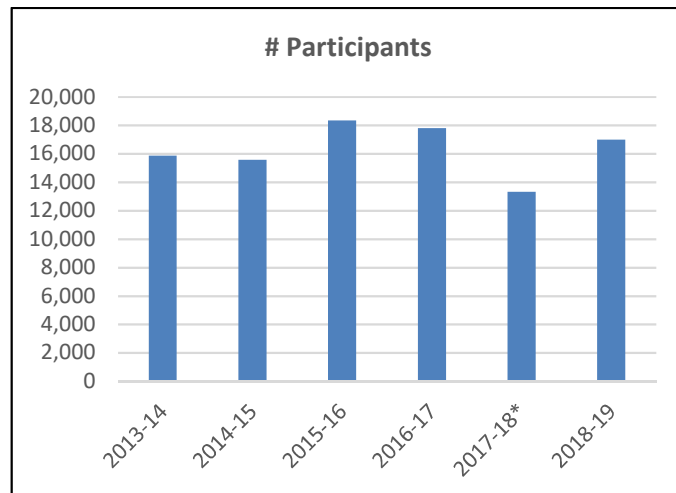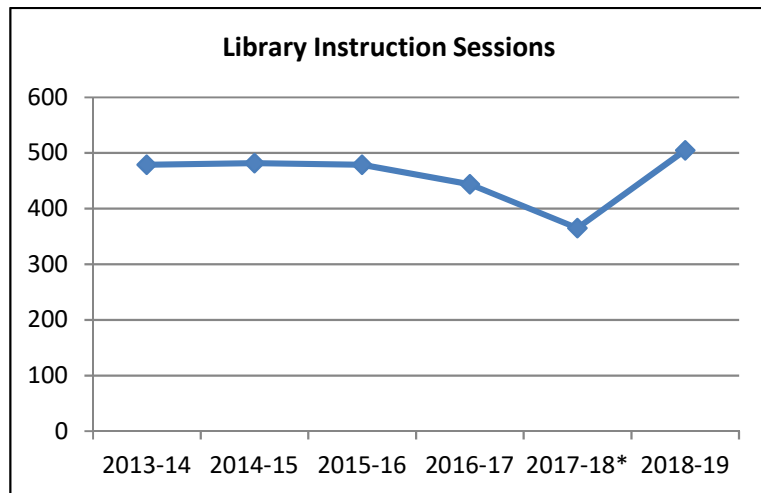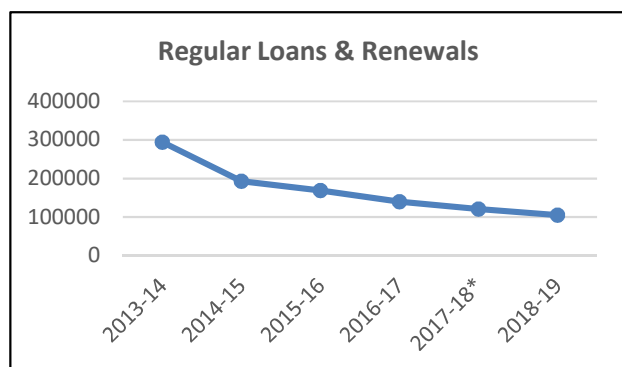
Highlights:

- CURVE - Carleton's Institutional Repository
- Open Access Funding for Faculty, Staff, & Students
- Research Data Management Training
- Open Access Awards for Graduate Students
- Discovery Centre for Undergraduate Research & Engagement
- Professional Skills Training for Graduate Students
- Jacob Siskind Music Resource Centre

Electronic Usage

E-journal downloads (2018):
1,572,544

Library Web Visits (2018-19):
1,035,086

Reserve Loans and Views

Interlibrary Loan Requests Filled
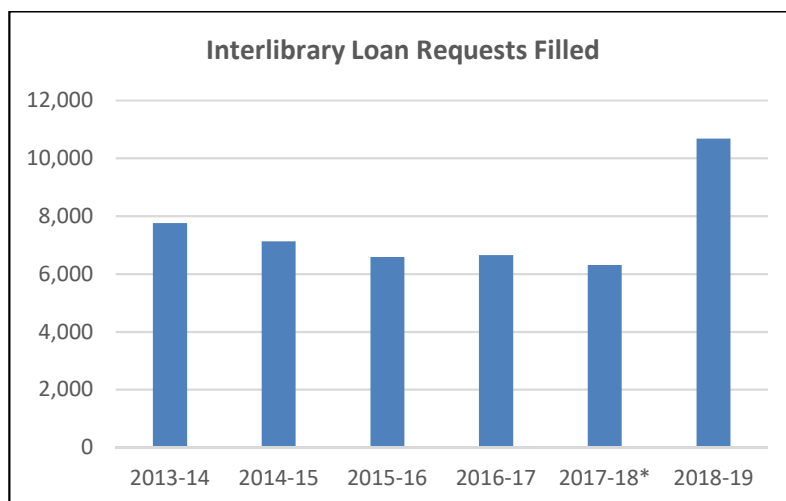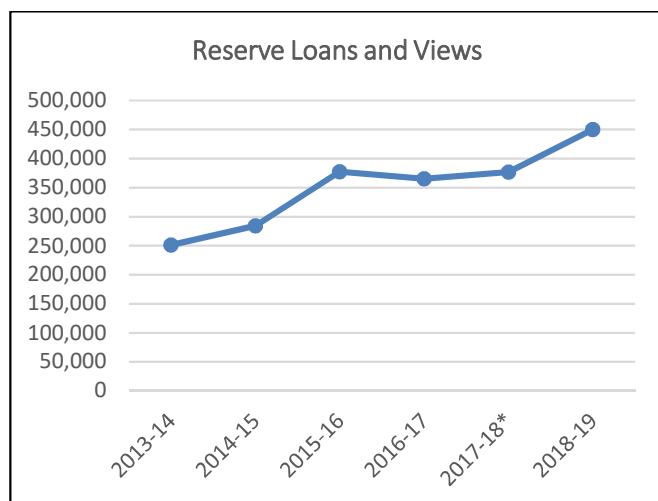
Student Learning Experience

Student Visits to Adaptive Technology Centre

Transcription Services

- Transcription Services students
- Transcription Services requests
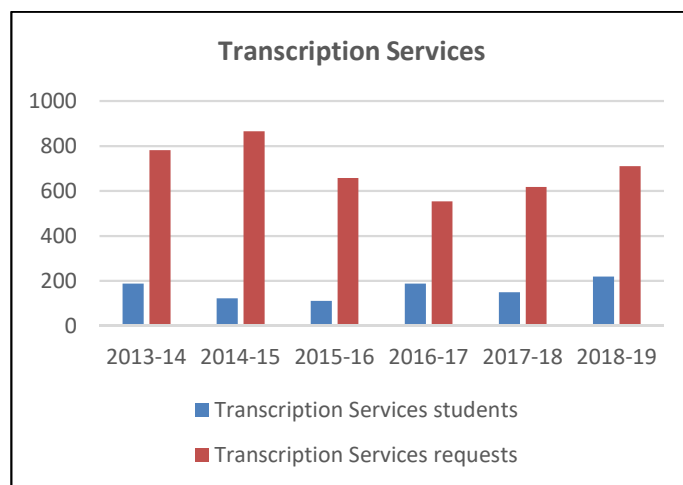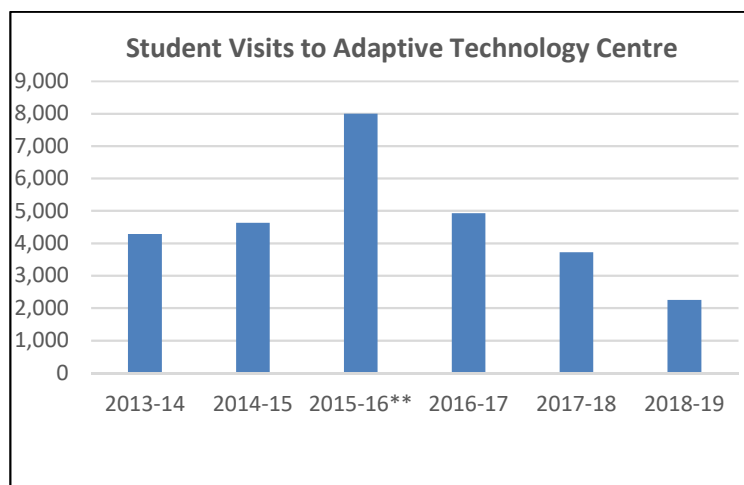
Highlights:
- Over 1.9 million visits in a year
- 2,320 seats
- 176 workstations
- 41 bookable group study rooms
- Group & graduate study rooms
- Innovative Study areas
- Adaptive Technology Centre
- 24 hour access at peak times

Organizational Excellence

Collection Facts

# Print Volumes	1.8 million
# Manuscripts & Archives	1690.4 linear metres
Percentage of Total Collection Budget Allocated to E-Resources (2018-19)	85%
# Cartographic Materials	161,396
# E-books	872,396
# E- Journals	78,408

Ranking & Comparisons

Globe & Mail 2019 Canadian University Report	
Average	Library Resource Spending
Maclean's - Comprehensive Universities (2019)	
8th/15	Library Expenses
10th/15	Library Acquisitions
Carleton Service Satisfaction- Students (2018)	
8.2/10	Overall satisfaction- Library
Carleton Service Satisfaction- Employees (2015)	
8.6/10	Overall satisfaction- Library

Expenditures

Total Expenditures- Library Materials
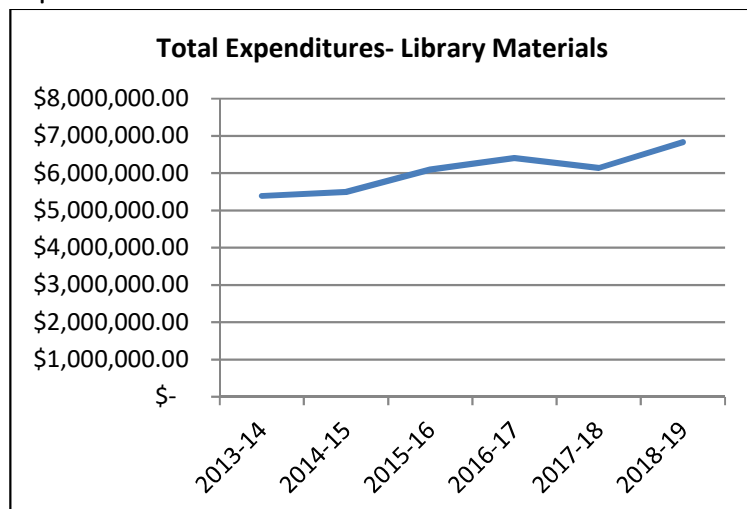
Library collection expenditures (2016/17)	Carleton = $6,408,473 National Average = $11,672,014
Library collections expenditure as a percentage of University budget (2016/17)	Carleton = 1.57% National Average = 1.91%
Library collections expenditures per FTE student enrolment (2016/17)	Carleton= $239.06 National Average= $400.21

CLIM 5000: Climate Collaboration
Fall 2020

Prof. Engineer, FED
Prof. Scientist, FS
Prof. Fass, FASS
Prof. Policy, FPA
Prof. Business, Sprott

Course Time: twice weekly, 1.5 hours each or once a week for 3 hours
Course Credits: 1.0
Office Hours: Please see course website for hours and locations.

Course Description:

Anthropogenic climate change is the biggest environmental, social, political and technical challenge humanity faces. This course accordingly addresses the climate crisis from an interdisciplinary perspective; it recognizes that without shared expertise and collaboration from the broadest possible range of perspectives climate change—its origins, unequal distribution, geographical and political distribution, and proposals for management—will not be adequately understood and ways to address will likely elude us. The course will provide an understanding of the science of climate change coupled with a consideration of the feasibility of technical solutions, the economic, government, socio-political, environmental and cultural drivers that influence human behavior and decisions, and other topics. The course brings a variety of disciplinary approaches from the humanities, social sciences, public policy, engineering and natural science to bear on the question of climate change.

The interdisciplinary teaching-team does not have all the answers, and the faculty are not all experts on every topic in the class. We will be learning together through this course. Our recurrent themes include hope; basic climate change science; the limits and possibilities of technological solutions; the role of economics; culture, language and framing; historical change and the deep interconnection between the social and the natural world; alternative scenarios and narratives; inequality; moral responsibility and agency; sustainable economy; climate justice; and the consequences of (in)action.

Course Objectives:

At the end of the course students will be expected to:

1) Identify and explain the basic scientific processes of climate change.
2) Understand the scope and patterns of energy utilization by human activities and linkages to natural environments
3) Appreciate fundamental thermodynamic principles that set the limits to available energy sources

4) Understand the limits and possibilities of technological solutions to emissions reduction, carbon capture, ecological resilience, and climate change adaptation
5) Understand the role of climate history, cultural studies, philosophy, and the arts in climate change
6) Have an appreciation of the ways in which the impact of climate change is unequally distributed (both among ecosystems and societies) and understand the role of climate justice
7) Understand how the ways in which one frames a problem shapes the solutions that will be imagined
8) Understand the barriers to effective collective action (economics and policy) in combatting climate change
9) Be able to describe the nature of interdependencies in socio-political-ecological-technological systems that determine the societal impacts of climate change and bound the set of potential solutions
10) An appreciation for the different ways in which knowledge is understood and, in particular, an appreciation of Indigenous ways of knowing in relation to climate change

Instructional Format and Course Pedagogy

The course will consist of a combination of lectures, group discussions, case studies, and interdisciplinary projects. The faculty members and / or instructors are drawn from a wide range of disciplines. This format will offer opportunity for integrated approaches to the course material. We encourage a respectful atmosphere of questioning and discussion. All members of the faculty team will participate in class meetings, lectures and class trips throughout the course.

Books and Other Course Materials

Technology and Economics

"Sustainable Energy - Without the Hot Air", David JC MacKay

Paul Hawken, ed., Drawdown: The Most Comprehensive Plan Ever Proposed to Reverse Global Warming (New York: Penguin, 2017). ISBN: 9780143130444.

Keohane and Olmstead (2016). Markets and the Environment. Island Press
ISBN: 978-1-61091-608-0

Overall policy process

Pal, Leslie A., Auld, G., & Mallett, A., (2020). _Beyond Policy Analysis: Public Issue Management in Turbulent Times_ 6th edition. Toronto: Nelson Education. Chapters 1, 3, 4, 5 and 6

Global and Canadian Landscape

A few of the most recent Intergovernmental Panel on Climate Change (IPCC) – summary for policymakers – e.g. need for 1.5 degrees Celsius September 2018

Bush, E. and Lemmen, D.S., editors (2019): Canada's Changing Climate Report; Government of Canada, Ottawa, ON. 444 p.

Efficiency Canada and Carleton University (2019). Provincial Energy Efficiency Scorecard. https://www.scorecard.efficiencycanada.org/

On-line Sources

BP, Statistical Review of World Energy 2017 (https://www.bp.com/content/dam/bp-country/de_ch/PDF/bp-statistical-review-of-world-energy-2017-full-report.pdf)
IEA Key Energy Statistics, 2017
https://www.iea.org/publications/freepublications/publication/KeyWorld2017.pdf

Assignments and Grading:
(Suggested example framework, to be finalized by the course instructors)

1. (10%) Individual Greenhouse gas inventory and analysis.

2. (15%) Place-based Essay. 4-6 pages. Place-based thinking and change-over-time based analysis and meditation. Topics include the effects of climate change on a location and how we develop a deep history of the climate of a place.

3. (15%) Literature review on the problem: 10 pages double spaced, not including bibliography.

4.(15%) Policy briefing – short memo: 6 pages, single spaced. Write a brief on the issue and a potential policy option to consider for a relevant policymaker. These briefs should include an executive summary, discussion of the problem and a recommendation.

5. (10%) Technical Report, 5 pages, summarizing the science and technology relevant to a particular climate change issue.

6. (35%) Group Climate Collaboration Project. Working in small, discipline-balanced teams, students will choose a topic to study in depth and develop collaborative understanding of the problem and examine pathways to transition away from climate-forcing practices. Evaluation would be based on weekly participation and contributions to discussion, final group project dossier and presentation.

Week-by-week:

Week 1: Climate Change review

Lecture 1:
- Methodology and Interdisciplinarity
- Science of climate change
- Historical climate change and the Anthropocene

Lecture 2:
- Anthropocene
- Governance and policy

Week 2: Effects on the natural world

Lecture 3:

- Biogeochemical cycles and global feedback loops
    - Carbon cycle
    - Feedback loops
    - Predicting climate change impacts
    - Global dataset

Lecture 4:

- Ecosystems and climate change
    - Habitat loss
    - Species movement and extinction
    - Ecological resilience

Week 3: Science of mitigation

Lecture 5:

- Sustainability and social ecological systems

Lecture 6:

- Habitat and ecological restoration/management

Week 4: The Role of Energy "Consumption" in Emissions

Lecture 7:

Basic thermodynamics, 1st and 2nd laws. What is energy? What forms does energy take? What processes are involved in the conversion of energy between forms and in human utilization of energy. What are the limits of efficiency in conversion? What we really mean by "energy consumption".

Lecture 8:

Current and future human energy consumption. How much energy do we currently use? For what purposes? How much will we use in the future? What are the GHG emissions associated with these uses?

Week 5: Technology of Sustainable Energy Use

Lecture 9:

Where will it come from? Basics of how the technologies work and quantifying their benefits
    Efficiency: technological solutions to reduce energy requirements

Lecture 10:

    Mitigation: technological solutions to minimize GHG emissions from combustion
    Renewables: technology the harnesses energy from carbon-free or carbon-neutral
sources
    Carbon Capture: what is it and what will its impact be?
    Things that probably don't work: quantifying the limits of some proposed technologies.

Week 6: The Humanities perspective

Lecture 11:

Intro Humanities and climate change

This week will focus on the ways in which climate change has been represented in a range of media from literature, essays, and visual art to architecture and film. We will consider the role of storytelling and what many call "geostories" in the context of the Anthropocene (defined as the human impact on the environment but more accurately understood as the impact of economically privileged humans on the environment). We will be especially attentive to *how* climate change is represented. We will consider who has the means to represent climate change and through what media; what relations/topics are emphasized and what relations/topics are downplayed or ignored; what images are used and to what effect; what

emotions are represented and to what effect; what language is used and why it is important; what structures and forms are adopted and how we can learn to read and understand them, and so on. Overall, we will discuss the link between reading, seeing, knowing, and acting and ask what role the humanities can play in our response to climate change today.

Lecture 12:

History/Planet
Chakrabarty, Dipesh. The Climate of History: Four Theses." Critical Inquiry 35.2 (Winter 2009): 197-222.

---. "The Planet: An Emergent Humanist Category." Critical Inquiry 46.1 (2019): 1-31

Indigenous perspectives on climate change

Some readings from
Kyle Whyte https://kylewhyte.cal.msu.edu/articles/
Deborah MacGregor https://works.bepress.com/deborah-mcgregor/
Paul Nadasdy https://anthropology.cornell.edu/paul-nadasdy
Laurelyn Whitt (2009). Science, Colonialism and Indigenous Peoples: the Cultural Politics of Law and Knowledge. Cambridge, UK: Cambridge University Press – such as the concluding chapter.
https://www.mobt3ath.com/uplode/book/book-52277.pdf

Week 7: Nature, Culture and Storytelling

Lecture 13:

Nature/Culture

Raymond Williams, "Nature." Keywords.

Bruno Latour, Intro to *We Have Never Been Modern?*

Lecture 14:

Storytelling/Narrative

Ghosh, Amitav. *The Great Derangement: Climate Change and the Unthinkable*

Timothy Clark, *Ecocriticism on the Edge: The Anthropocene as a Threshold Concept*

Bjornerud, Marcia. *Timefulness: How Thinking like a Geologist Can Help Save the World*

Hulme,M. "Meet the Humanities." *Nature Climate Change* 1(4), 177-179. (2011)

Tsing, Anna. *The Mushroom at the End of the World: On the Possibility of Life in Captialist Ruins*

David Wallace-Wells, *The Uninhabitable Earth: Life after Warming*

Week 8: Politics and Government

Lecture 15:

- What is government and the concept of governance
- The role of politics and power
- What is public policy

Pal et al. 2020. BPA. 6th edition. Nelson Education, Toronto.

Lecture 16:

- How to address climate change (how do we define the problem of climate change)?
- How has climate change historically been dealt with?
- What are the pathways / visions?

Sustainable Canada Dialogues, *RE-ENERGIZING CANADA, Pathways to a Low-Carbon Future*, 2017. http://www.sustainablecanadadialogues.ca/en/scd/energy
Generation Energy Council Report, *Canada's Energy Transition: Getting our Energy Future, Together*, June 2018.
https://www.nrcan.gc.ca/sites/www.nrcan.gc.ca/files/energy/CoucilReport_june27_English_Web.pdf
James Meadowcroft, "Let's Get This Transition Moving," *Canadian Public Policy*, 42: 1, November 2016, 10-17.

Government of Canada. (2016). The Pan-Canadian Framework on Clean Growth and Climate Change.
https://www.canada.ca/content/dam/themes/environment/documents/weather1/20170125-en.pdf

Week 9: The Politics and Policy of Climate Change

Lecture 17:

The Politics of Climate Change

- a few relevant publications from James Meadowcroft and Matthew Paterson

Aman Chahal, Zak Jacques, Marc Quintaneiro, and Glen Toner, "Politics and Policy on the Federal- Provincial Journey to a Low-Carbon Future: A New Era of Canadian Energy/Environment Federalism?" in Katherine A.H. Graham and Allan Maslove (eds.), *How Ottawa Spends 2017-18: Canada @150*, (Ottawa: School of Public Policy and Administration, Carleton University, 2017), 159-180.

Travis Dagg, Jonathan Lippett, Derek Masters and Glen Toner, "A Pan-Canadian Experiment: Pipelines, Carbon Pricing and Partisan Politics Test the New Era of Energy/Environment Federalism," in Katherine A.H. Graham and Allan Maslove (eds.), *How Ottawa Spends 2018-19*, (Ottawa: School of Public Policy and Administration, Carleton University, 2018).

Adkin, L. (ed.) (2016) First World Petro-Politics: The Political Ecology and Governance of Alberta, edited Toronto; Buffalo; London: University of Toronto Press, Scholarly Publishing Division.
Brulle, Robert J. "Institutionalizing Delay: Foundation Funding and the Creation of U.S. Climate Change Counter-Movement Organizations." Climatic Change 122, no. 4 (December 21, 2013): 681–94. https://doi.org/10.1007/s10584-013-1018-7.

———. "The Climate Lobby: A Sectoral Analysis of Lobbying Spending on Climate Change in the USA, 2000 to 2016." Climatic Change 149, no. 3 (August 1, 2018): 289–303. https://doi. org/10.1007/s10584-018-2241-z. Carroll, William. "Canada's Carbon-Capital Elite: A Tangled Web of Corporate Power." Canadian Journal of Sociology 42, no. 3 (September 29, 2017): 225–60.
Cited in CCPA, Big Oil's Political Reach, November 2019.

Lecture 18:

- Contemporary policy options
  - Carbon tax/price on carbon

Brendan Haley, "Using Carbon Pricing Revenues Effectively," *Policy Options*, January 3, 2018 http://policyoptions.irpp.org/magazines/january-2018/using-carbon-pricing-revenues-effectively/

From an economic lens:

On some consequences of incentivizing renewable energy using policy instruments that are not first-best from an economic perspective (namely not a carbon tax or equivalent):

Setting with the Sun: The impacts of renewable energy on wholesale power markets, by Jim Bushnell and Kevin Novan. Available at https://www.nber.org/papers/w24980.

Chris Ragan, Elizabeth Beale, Paul Booth, Mel Cappe, Bev Dahlby, Don Drummond, Stewart Elgie, Glen Hodgson, Richard Lipsey, Nancy Olewiler and France St. Hilaire (2017). Supporting Carbon Pricing, Chapters 1 -3, Ecofiscal Commission: http://ecofiscal.ca/wp-content/uploads/2017/06/Ecofiscal-Commission-Report-Supporting-Carbon-Pricing-June-2017.pdf

- o R&D
Gregory Nemet – How Solar Energy Became Cheap: a Model for Low-Carbon Innovation

- o Subsidies
International Institute for Sustainable Development, "Getting on Target: Accelerating energy access through fossil fuel subsidy reform," July 2018. https://www.iisd.org/sites/default/files/publications/getting-target-accelerating-energy-access.pdf

- o Feed in tariffs

- o Regulation

Week 10: Climate Change Policies and Contemporary Approaches (continued)

Lecture 19: Individual versus Collective Action

Behavioural Economics and Systems-based approaches

Thaler and Sunstein (2008). Nudge or something from the Behavioural Insights Unit

Robinson, J. (2019). On Normalizing Sustainability

Shove, E. et al. (2010). On social practices and energy.

Lecture 20:

Economics of climate change
- • The Kaya identity

- Market failure and externalities
- Bargaining over property rights
- Collective action and free rider problem
- Carbon taxes vs cap-and-trade

Some suggested readings include:
On energy efficiency as an option to manage climate change (getting the engineering predictions 'right' and targeting the relevant households are very important):

Do Energy Efficiency Investments Deliver? Evidence from the Weatherization Assistance Program, Meredith Fowlie, Michael Greenstone, Catherine Wolfram
The Quarterly Journal of Economics, Volume 133, Issue 3, August 2018, Pages 1597–164.

Measuring the Welfare Effects of Residential Energy Efficiency Programs with Self-Selection into Program Participation, Hunt Allcott and Michael Greenstone, working paper available at https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2945603.

Estimating the costs of climate change:
Estimating the Consequences of Climate Change from Variation in Weather, Derek Lemoine, NBER working paper 25009. Available at https://www.nber.org/papers/w25008.

Valuing the Global Mortality Consequences of Climate Change Accounting for Adaptation Costs and Benefits, by many co-authors. Available at https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3224365.

Weather, Climate Change and Death in India, by Robin Burgess, Olivier Deschenes, Dave Donaldson and Michael Greenstone. Working paper. Available at: https://www.michaelgreenstone.com/papers.

Week 11: Corporate and Business Solutions

Lecture 21:

Private versus public governance and the corporate objective function
- Roles and responsibilities of business – profit maximization vs stakeholder management vs corporate sustainability
- Voluntary and mandatory carbon reporting mechanisms
- Carbon footprinting, emissions abatement, and offsetting
- Climate risk management: mitigation and resilience

Lecture 22:

Business solutions for climate change
- The role of private capital in developing solutions
- Reframing the business objective function: from shareholder primacy to stakeholder value
- Locus of control: responding to consumer demand vs driving consumer behavior
- Business models for the circular economy

Week 12: NGOs, Industry partnerships and the Greenwash problem

Lecture 23:

Business: part of the problem or driver of solutions?
- Strategic sustainability
- NGOs and industry partnerships
- The greenwash problem

Weeks 13-26: Approximately 6 Case Studies based on readings, seminars and discussion in-class. All perspectives will be brought to bear on each example.

Example Case Studies:

1: Home heating: Can Canadians stay warm without GHG emissions?
2: Urban transportation: How could Canadian cities transform transportation?
3: Veganism: What are the GHG consequences of eating meat?
4. Climate Change in the North: challenges of adapting in the most dramatically affected areas. Northern peoples and societies. Just transitions and the burden of responsibility.
5. Coal-fired Electricity – a Regulatory Case Study, in a Narrative of Canada – US Harmonization
https://carleton.ca/rgi/wp-content/uploads/Coal-Fired-Electricity-A-Regulatory-Case-Study-in-a-Narrative-of-Canada-US-Harmonization-Mike-Beale.pdf
6. Carbon Pricing
7. Population
8. Species Extinction
9. Migration and Climate Refugees
10. Fort McMurray Wildfires

Certificate in Science and Policy
Joint proposal from Faculties of Science and Public Affairs

1.0 Certificate Overview

The Faculty of Science and the Faculty of Public Affairs (FPA) are proposing a new jointly delivered Certificate in Science and Policy. The Certificate constitutes a new program proposal. The Certificate consists of 5.0 undergraduate credits in both the Faculty of Science and Faculty of Public Affairs and is open to undergraduate students from all Faculties. The Certificate includes coursework and a final capstone project. Courses will be offered in face-to-face and remote (e.g., online) delivery formats. The administration of the Certificate will reside in the Institute of Environmental and Interdisciplinary Science (IEIS), and be governed by a joint Science and FPA Advisory Board.

Rationale

The current federal government's emphasis on innovation, science and governance underscores the need for greater capacity across the national science and innovation ecosystem – including academia, other levels of government, and other sectors – at the intersection of rapidly evolving areas such as superclusters, inclusive innovation, food security, climate change and evidence-informed decision-making. Academia provides a dual function of building and supporting capacity across the national science and innovation ecosystem through scholarly activity (e.g., research) and by educating the next generation of scientists, policy analysts, regulatory technical experts, and science communicators. As a result, demand from students and from employers such as the federal government is increasing for designated programs that blend science, innovation, and policy.

The Certificate would provide both current Carleton University undergraduate students as well as non-Carleton students an opportunity to receive practical training and skills for working at the interface of science, innovation, and policy. An understanding of both policy and science languages, culture, norms and how each sector may influence each other as well as work together is essential for good policy development.

The Certificate in Science and Policy is designed to provide students with foundational knowledge about the science-policy interface, and practical skills to analyze and communicate complex science policy and societal issues by bridging the worlds of science and policy.

Certificate Governance

The Certificate in Science and Policy will be administered by the Institute of Environmental and Interdisciplinary Science (IEIS), with joint governance by the Faculty of Science and FPA. The IEIS will oversee the day-to-day administration of the program, including student advising and daily operations. An interdisciplinary management committee will be the decision body on curriculum matters and program requirements and regulations. The management committee will meet at least once each fall and winter term, and is chaired by a faculty member from the Interdisciplinary Science and Practice Program (ISAP) and a faculty member from FPA. The co-chairs will be appointed by their respective Deans in consultation with Chairs/Directors of participating units. The committee will be composed of a representative from each contributing unit as well as one student from the Certificate program. Each year, participating units will select their representative on the management committee.

1.1 Certificate in Science and Policy

The Certificate requires completion of 5.0 credits. The Certificate will be completed either concurrently with another undergraduate program at Carleton, or on a stand-alone basis. In the first option, the program will be taken concurrently with an honours undergraduate degree program in Science or Public Affairs, or any other Bachelor's degree program. It is expected that students will normally apply for entry into the Certificate at the end of their first year of study. In the second option, students not currently registered in a degree program at Carleton may apply directly to the Certificate (see program admissions below). Most courses are existing courses in Science and FPA. The program structure has two pathways depending on whether the student is enrolled in a science or non-science degree program.

Courses (Total 5.0 Credits)

The course structure below illustrates the typical recommended course progression for both pathways. The precise sequence and timing of course selection will be determined in consultation with a Certificate curriculum advisor from IEIS. The typical entry point for students enrolled in a Carleton undergraduate honours program will be after their first year.

Given the Certificate is a supplementary credential, it is anticipated that students enrolled in an honours program may require additional credits to satisfy the Certificate requirements. Note that students enrolled in the Interdisciplinary Science and Practice B.Sc. Honours program will be permitted to count up to a maximum of 2.5 credits towards the Certificate requirements.

1st year of Certificate program: 2.0 CREDITS

Science Majors	**Non-Science Majors**
0.5 credit: PAPM 1001 - Policy: Analysis, Implementation, and Evaluation	0.5 credit: PAPM 1001 - Policy: Analysis, Implementation, and Evaluation
0.5 credit: PSCI 2003 - Canadian Political Institutions	0.5 credit: PSCI 2003 - Canadian Political Institutions
0.5 credit**:** ISAP 2001 - Foundations in Critical Inquiry	0.5 credit: ISAP 2001 - Foundations in Critical Inquiry
0.5 credit in any 1000-level science credit (see appendix A for full list).	0.5 credit: ISCI 1001 - Introduction to the Environment

2nd year of Certificate program: 1.5 CREDITS

All
0.5 credit: ISAP 3004 - Science Policy
0.5 credit: ISAP 3003 - Science Communication
0.5 credit: PADM 4220 - Regulation and Public Policy, or LAWS 3005 - Law and Regulation
 (note that LAWS 3005 has prerequisites)

3rd year of Certificate program: 1.5 CREDITS

Science Majors	**Non-Science Majors**
0.5 credit: ISAP 3002 - Applications in Interdisciplinary Research (Capstone course)	0.5 credit: ISAP 3002 - Applications in Interdisciplinary Research (Capstone course)

0.5 credit in approved FPA electives
0.5 credit in any approved electives (or permission of program)

0.5 credit in approved Science electives
0.5 credit in any approved electives (or permission of program).

Approved electives

Note: Other courses may be used with permission of the program.

Faculty of Public Affairs
Political Science (PSCI):
PSCI 3401 Canadian Public Administration;
PSCI 3402 Canadian Public Policy;
PSCI 3405 Comparative Public Policy Analysis;
PSCI 3406 Public Affairs and Media Strategies;
PSCI 4400 Socio-Technical Change and Public Policy Design;
PSCI 4407 Public Policy: Content and Creation;
PSCI 4408 Public Affairs Management and Analysis
Political Management (POLM):
POLM 3000 Introduction to Political Management;
POLM 4010 Polling and Opinion Research;
POLM 4012 Political Advocacy
Law (LAWS):
LAWS 3005 Law and Regulation;
LAWS 3502 Regulating Freedom of Expression in Canada;
LAWS 3506 Administrative Law;
LAWS 3508 Health Law;
LAWS 3800 Law of Environmental Quality;
LAWS 4510 Topics in Law, Policy and Government;
Public Policy and Administration (PADM):
PADM 4220 Regulation and Public Policy;
PADM 4221 Health Policy in Canada;
PADM 4224 Aboriginal Policy;
PADM 4225 Trade Policy;
PADM 4226 Tax Policy;
PADM 4227 Education Policy;
PADM 4228 Social Policy;
PADM 4320 Ethics for Public Policy;
PADM 4611 Science and Technology Policies;
PADM 4612 Industrial Policy, Innovation and Sustainable Production;
PADM 4615 Politics and Policy of Energy in Canada;
PADM 4817 Health Policy in Developing Countries
Economics (ECON):

Faculty of Science

Technology, Society and Environmental Studies (TSES):
TSES 2006 Ecology and Culture;
TSES 3001 Technology-Society Interactions;
TSES 3002 Energy and Sustainability;
TSES 3500 Interactions in Industrial Society;
TSES 4001 Technology and Society: Risk;
TSES 4002 Technology and Society: Forecasting;
TSES 4003 Technology and Society: Innovation;
TSES 4005 Information Technology and Society;
TSES 4006 Technology and Society: Work;
TSES 4007 Product Life Cycle Analysis;
TSES 4008 Environmentally Harmonious Lifestyles;
TSES 4011 Technology and Society: Development;
Environmental Science (ENSC):
ENSC 3106 Aquatic science and Management;
Health Sciences (HLTH):
HLTH 3103 Health Policy and Canada's Health Care System;
HLTH 3104 Regulatory Issues and Human Health;
HLTH 4101 Global Health Governance;
HLTH 4102 New Health Technologies;
HLTH 4202 Health Program Evaluation Tools and Methods;
HLTH 4701 Knowledge Translation;
Food Science (FOOD):
FOOD 2003 Regulation of the Canadian Food Industry;
FOOD 4102 Current Issues in Canadian Food Governance, Regulation and Policy;
Biology (BIOL):
BIOL 1010 Biotechnology and Society;
BIOL 4503 Fish Ecology, Conservation and Management;
BIOL 4602 Evolutionary Applications across Disciplines: From Medicine to Conservation;
Earth Sciences (ERTH):

FYSM 1003 Introduction to Economics;
FYSM 1108 Sustainable Environments;
FYSM 1908 One-Term Seminar in Economics;
ECON 1001 Introduction to Microeconomic;
ECON 1002 Introduction to Macroeconomic;
ECON 3201 Economic Thought and Policy in Canada;
ECON 3403 Introduction to Public Economics: Expenditures;
ECON 3460 Introduction to Health Economics;
ECON 3803 The Economics of Natural Resources;
ECON 3805 Environmental Economics;
ECON 3860 Agricultural Economics;
ECON 3864 Transportation Economics

ERTH 2402 Climate Change: An Earth Sciences Perspective;
ERTH 4303 Finite Resources of the Earth;
Physics (PHYS):
PHYS 1901, PHYS 1902, PHYS 2903

Statement Regarding Prerequisites

The Certificates includes required courses with prerequisites/restrictions. This includes ISAP 2001, ISAP 3003, ISAP 3004, and PAPM 1001. In the case of the ISAP courses, Certificate students will be given permission to register for each of these courses. In fact, in all cases the prerequisites are administrative (to control course registration numbers) and not pedagogical. These courses are designed as stand-alone courses. Currently, the ISAP 2001 prerequisite statement indicates as a requirement ISAP 1002 "or permission of the Institute." A similar statement is missing from ISAP 3003 and 3004, but a revised prerequisite statement has been entered into Courseleaf as a Minor Modification and, once formally approved, will be reflected in the 2021-22 Calendar.

The Certificate also requires students to take PAPM 1001. This course is currently restricted to students in the Bachelor of Public Affairs and Policy Management program. As part of its commitment to the Certificate program, FPA has agreed to offer an additional section of PAPM 1001 that will be unrestricted and open to all students at the University, including Certificate students.

Finally, the Certificate includes some approved elective courses with prerequisites. These should not be a concern or present a barrier to students completing the Certificate. First, there are many elective options without prerequisites from which students may choose. In addition, we expect most students to take advantage of double counting and to satisfy any necessary prerequisites for elective courses as part of their honours degree programs. Students enrolling through direct entry may have to take additional courses to satisfy prerequisites, but as noted above, they may pursue other elective options if they wish. This will be addressed through advising.

Admission Requirements:

Admission to this program requires:

- Completion of at least 4.0 credits in an honours degree program with a minimum of a CGPA of 7 or higher, or;
- Completion of a college diploma or equivalent with minimum average grade of B.

As reflected above the Certificate is designed with different "pathways," with slightly different course requirements (totalling 1.0 credits), for Science and non-Science students. Currently, however, Certificates cannot include dedicated pathways. To address this it was agreed, in consultation with the Registrar's Office, that the Certificate could be built with two separate program codes – one for Science students and one for non-Science students. At the time of registration students will be placed administratively into the appropriate Certificate. This will allow student audits to accurately reflect the courses completed and required for the Certificate. We expect most direct-entry Certificate students will be "non-Science," though this can be assessed at time of admission.

2.0 Impact on Other Programs

The proposed certificate positively contributes to the delivery of the new ISAP program as both have similar mandates (providing practical skills and interdisciplinary training). ISAP courses are enhanced by bringing new perspectives into the classroom; therefore, diversifying the students to include non-science students is welcomed.

A number of units may experience some increased demand in courses that are required of Certificate students or designated as Certificate electives. These include: Health Sciences; Environmental and Interdisciplinary Science; Biology; Chemistry; Political Science; Public Affairs and Policy Management; Law and Legal Studies; Public Policy and Administration; Political Science; Political Management; and Economics. Letters of support from affected units will be obtained.

The Certificate will not draw students away from existing programs, as it will be supplementary to an undergraduate student's Major. Further, no current program at Carleton is blending science and policy except ISAP. In addition, creating an interest and training in science policy may potentially contribute to recruitment of science students into SPPA graduate programs. Anecdotally, we have heard that students who excel in certain SPPA graduate programs have a scientific background, and this certificate would open new opportunities and doors for science students. Lastly, the Certificate also creates potential opportunity to recruit students into courses from outside Carleton including college graduates, and post-baccalaureates from government agencies.

3.0 Societal Need

Employers, particularly federal government agencies, have expressed a need for recent graduates with science and public policy literacy. An informal survey conducted in 2019 by IEIS found that employers are looking for employees who are able to "understand both science and policy cultures," with "excellent writing skills" and the "ability to synthesize [expert technical] information," "think strategically," and "communicate in plain language." Many individuals at managerial and executive levels were enthusiastic about the development of a Certificate in Science and Policy.

Skill gaps that employers have noticed among newly graduated students include:

- Ability to write concisely and strategically,
- "Experience" working in a multi-generation workplace
- Networking and professional skills (negotiation, relationship building, building consensus, adaptability and flexibility, collaborative skills, respectful dialogue),
- Transitioning basic skill sets learned in an academic environment to the more "messy" policy environment,
- Communication skills: grammar, ability to communicate to diverse audience and translate technical language to plain language
- Ability to apply broad-scale lenses (including domestic and global lenses)
- Ability to provide unbiased but timely advice,
- Analytical skills: analyzing complex issues, foreseeing potential outcomes, understanding trade-offs, calculating risks.

One government employer stated, "Often students have academic knowledge in basic science or public policy but lack a nuanced understanding of how things actually work in the professional world, despite lots of published literature in science studies, environmental policy, etc. Strategic thinking on how to achieve results in the professional world is currently learned on the job."

Another government employee said that, "In addition to the skills and abilities stated above, the person must have good understanding of the governance structures and budget cycles in their departments and in the Government of Canada to be able to leverage these in bringing policies forward. Further, establishing diverse networks and build good relationships is important. Being curious about others' work and their mandates, asking thoughtful questions and sharing information with science and policy colleagues can help develop excellent working relationships. They must look ahead. Being aware of what is happening domestically and globally, in, for example, political, scientific and public health landscapes."

The Certificate aims to bring 'real-world' situations into the classroom and to partner with many potential employers to work on relevant assignments so students may gain understanding of the realities of the workplace.

Potential employers include: Federal science-based departments (e.g., Natural Resources Canada, Environment and Climate Change Canada Department of Fisheries and Oceans, Public Health Agency of Canada, Health Canada, National Research Council, Agriculture and Agri-Food Canada); provincial governments and ministries (e.g., Ministry of Health, Ministry of Natural Resources); NGOs and advocacy groups (e.g., Evidence for Democracy, Canadian Wildlife Federation, World Wildlife Fund, Canadian Parks and Wilderness Society, Canadian Science Policy Conference, Institute on Governance, World Health Organization); industry and private organizations such as the Canadian Mining Association, the Canadian Forest Industries Council, and management and policy consulting organizations.

4.0 Student Demand

There is an increasing recognition among students that multi-disciplinary training and understanding of diverse disciplinary cultures are essential skills to gain a competitive advantage in the workforce. Students, particularly those working at the interface of science and society (e.g. health, food security,

climate change, energy sustainability, environmental and natural resource management), recognize the need to understand how scientific information is used to influence behavior, policy and practice. Students have indicated that they see the professional opportunities at the intersection of science and policy, and are demanding appropriate academic training.

Nationally, there is demand from the public for greater evidenced-informed decision-making, and students are becoming aware of the need to understand how their work fits into society. Many graduate students in Biology at Carleton have expressed that they wish they had training in policy during their undergraduate studies, as it would have provided them with a different perspective on how to design their graduate research, including understanding the relevance of their research in policy and society or how to mobilize their work for greater benefit to society. Further, students have expressed desire to learn science but not pursue science careers such as research, lab technician, or field technician. Rather, they have expressed interest in pursuing careers that apply scientific knowledge including in communications, advocacy, and policy. As such, there is a Master's of Biotechnology Certificate underway (focusing biotechnology, policy, and society) as well as a Health Sciences Concentration in Journalism. The new Interdisciplinary Science and Practice program launched in Fall 2019 is also a testament to the growing desire of students to learn science for application rather than research.

Every year, over 200+ PhD applicants across Canada apply to the Canadian Science Policy Fellowship because they realize the need for work at this interface. Furthermore, since the beginning of the Canadian Science Policy Conference, students that have enrolled in Science Policy 101 workshops have tripled from 30 to over 100. The IEIS has received a large number of applications from students expressing a desire to pursue studies in areas of science policy and to understand how to apply science to have impact. Offering additional options for students to be exposed to science policy will better equip Carleton graduates in succeeding in their chosen careers.

We anticipate great interest in the Certificate from students in Interdisciplinary Science and Practice, Environmental Science, Health Science, Food Science, Biology (Biotechnology, Conservation) and other science programs with content that has implications for society.

We would also expect that students from the Public Affairs and Policy Management (PAPM) program, Political Science, Law, Communication and Media Studies, and Journalism would also be interested in taking the Certificate. Scientific data is critical for public policy decision-making, as FPA students will have discovered from the courses in their degree. The Certificate will give them the opportunity to develop this knowledge and understanding further. In PAPM, students' interest in this area is indicated by their enrolment in environmental, energy, health, and food policy courses, and their choice of topics from these fields for their Honours' Research Essays (HREs).

Outside of the Carleton community, we anticipate college graduates may wish to supplement their credentials with a Certificate in Science and Policy to increase their opportunities for employment in the public sector. We also anticipate working-level policy analysts and scientists within the public sector to enrol in the Certificate in Science and Policy as part of their professional development. Particularly those working in science-based departments requiring understanding of scientific content and policy processes. For example, Natural Resources Canada runs a one-week "science policy bootcamp" every year and has invited Carleton professors to participate, demonstrating the need for similar training that is available more broadly. They already have expressed interest in partnering with the Certificate program to expand on their own training.

Based on the numbers of Science students with Minors in FPA programs, and FPA students with Minors in Science programs, as well as the number of BPAPM students who write major research papers on science policy topics, we anticipate a steady-state enrollment in the Certificate of approximately 25-30 students.

5.0 Resources (1-2 pages)

a. *Faculty resources*: No new faculty positions are required. The Certificate draws on existing courses and teaching resources. The Faculty of Public Affairs has agreed to offer an additional section of PAPM 1001 to accommodate Certificate students (this will be open to all students) and will ensure that a section of PADM 4220 is offered annually (currently it is offered every other year). Should student interest exceed our expectations, and there is increased demand in required courses, additional resources may be required from the Office of the Dean of Science in the form of teaching assistants.

b. *Contract instructors*: The Faculty of Science has agreed to provide resources for one contract instructor to back fill a 0.5 credit course relief for the Certificate program coordinator, who will be responsible for advising, program coordination, and cyclical program reviews.

c. *Administrative support*: The Certificate in Science and Policy is a joint program between the Faculties of Science and Public Affairs, however the Institute of Environmental and Interdisciplinary Science (IEIS) will administer the program. We anticipate an increased demand on the time of the IEIS administrator of approximately 10% who will support advising and ensure students have necessary courses and are following the appropriate pathways (for either Science or non-Science students). However, additional resources for administrative support will not be required. In the initial years, some additional nominal funds may be required for advertising and promotion of the Certificate.

d. *Library resources*: A Library Report will be requested by OVPAVPA.

e. *Space*: None.

f. *Equipment*: None.

g. *Graduate student funding*: N/A.

APPENDIX A
1000 Level Science Courses
**For students in science. Courses that we could use towards their introductory science in the first year.

Subject	Courses
Biology	BIOL 1010, BIOL 1103, BIOL 1104, BIOL 1105, BIOL 1902
Chemistry	CHEM 1001, CHEM 1002, CHEM 1005, CHEM 1006, CHEM 1101
Computer Science	COMP 1005, COMP 1006, COMP 1405, COMP 1406, COMP 1501, COMP 1601, COMP 1805
Earth Sciences	ERTH 1006, ERTH 1009
Environmental Science	ENSC 1500
Food Science	FOOD 1001
Geography	GEOG 1010
Geomatics	GEOM 1004
Health Science	HLTH 1000, HLTH 1001, HLTH 1002
Interdisciplinary Science	NSCI 1000, ISAP 1001, ISAP 1002
Math	MATH 1004, MATH 1005, MATH 1007, MATH 1107, MATH 1052, MATH 1104, MATH 1119, AMTH 1152, MATH 1401, MATH 1402, MATH 1800.
Neuroscience	NEUR 1201, NEUR 1202
Physics	PHYS 1001, PHYS 1002, PHYS 1003, PHYS 1004, PHYS 1007, PHYS 1008, PHYS 1901, PHYS 1902.

No 1000-level courses in Data Science or Statistics.

Certificate in Science Policy Learning Outcomes

At the end of the program students will be able to:

- explain the policy process and governmental decision making
- explain the ways in which scientific knowledge is generated and synthesized, and develop an appreciation for different ways of knowing, and knowledge of at least one scientific discipline
- collaborate and communicate across disciplines on the analysis of science policy problems

New Program Proposal

Date Submitted: 10/19/20 10:03 am

Viewing: **CERT-CSCPA (Science) and CERT-CSCPB (non-Science) : Certificate in Science and Policy**

Last edit: 10/27/20 6:14 pm

Last modified by: lisachow

Changes proposed by: sarahcleary

In Workflow

1. **IEIS ChairDir UG**
2. **SCI Dean**
3. **PA Dean**
4. **SCI FCC**
5. **PA FCC**
6. **SCI FBoard**
7. **PA FBoard**
8. **PRE SCCASP**
9. SCCASP
10. SQAPC
11. Senate
12. PRE CalEditor
13. CalEditor

Approval Path

1. 09/22/20 4:12 pm
   Michelle Santoianni
   (michellesantoianni):
   Rollback to Initiator
2. 10/14/20 11:54 am
   Michelle Santoianni
   (michellesantoianni):
   Rollback to Initiator
3. 10/20/20 4:03 pm
   Steven Cooke
   (stevencooke): Approved
   for IEIS ChairDir UG
4. 10/20/20 4:26 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI Dean
5. 10/21/20 11:35 am
   David Mendeloff
   (davidmendeloff):
   Approved for PA Dean
6. 10/22/20 7:48 am
   Julia Wallace
   (juliawallace): Approved
   for SCI FCC
7. 10/28/20 3:15 pm
   David Mendeloff
   (davidmendeloff):
   Approved for PA FCC
8. 10/29/20 2:36 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI FBoard

9. 11/26/20 2:45 pm
David Mendeloff
(davidmendeloff):
Approved for PA FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	CERT-CSCPA (Science) and CERT-CSCPB (non-Science)
Level	Undergraduate
Faculty	Faculty of Public Affairs Faculty of Science
Academic Unit	Institute for Environmental and Interdisciplinary Sciences
Degree	Not Applicable
Title	Certificate in Science and Policy

Program Requirements

Certificate in Science and Policy (5.0 credits)

May be taken following successful completion of a college diploma or equivalent with a minimum average grade of B or concurrently with an Honours degree or Bachelor of Engineering degree, with completion of a minimum of 4.0 credits, and a minimum CGPA of 7.0.

Requirements

1. **1.5 credits in:**   **1.5**

    ISAP 2001 [0.5]   **Foundations in Critical Inquiry**

    PAPM 1001 [0.5]   **Policy: Analysis, Implementation, and Evaluation**

    PSCI 2003 [0.5]   **Canadian Political Institutions**

2. **0.5 credit in ISCI 1001 for students in a non-science program or any 1000-level Approved Science course for students in a science or engineering program**   **0.5**

3. **1.5 credits in:**   **1.5**

    ISAP 3003 [0.5]   **Science Communication**

    ISAP 3004 [0.5]   **Science Policy**

    PADM 4220 [0.5]   **Regulation and Public Policy**

    or LAWS 3005 [0.5]   **Law and Regulation**

4. **0.5 credit in:**   **0.5**

    ISAP 3002 [0.5]   **Applications in Interdisciplinary Research**

5. **0.5 credit in Science Approved Electives for students in a non-science program or Public Affairs Approved Electives for students in a science or engineering program**   **0.5**

6. **0.5 credit in Science or Public Affairs Approved Electives**   **0.5**

Total Credits   5.0

New Resources   Contract Instructor

Institutional Quality Assurance Process

New Certificate Not Requiring a Library Report

Date: September 23, 2020

From: George Duimovitch, Collection Librarian, STEM & Sylvie Lafortune, Collection Librarian, Business and Public Affairs

To: Robyn Green, Program Officer, Faculty of Arts & Social Sciences and Faculty of Science, Office of the Vice-Provost & Associate Vice-President (Academic)

cc Amber Lannon, University Librarian
Laura Newton Miller, Head, Collections & Assessment
Sally Sax, Head, Electronic Resources & Acquisitions
Patti Harper, Head, Research Support Services

Recommendation

After review of Carleton University Library's information resources and services, no additional Library resources are required and so no report from the Library is necessary for the QA process for the new program:

Certificate in Science Policy

This is a formal notification for your records.

Critical Race Studies Minor

MEMORANDUM

To: Vice-President's Academic and Research Committee (VPARC)

From: Ann Cvetkovich, Director, Pauline Jewett Institute of Women's and Gender Studies

CC: Dean Pauline Rankin, Associate Dean Peter Thompson, ODFASS

Date: September 14, 2020

Subject: New Program Proposal – Minor in Critical Race Studies (CRST)

Program Description

1. <u>Description of the Concept for the New Program</u>

A minor in Critical Race Studies will address a crucial need at Carleton for curriculum in this now well-established area of study in order to advance not only the pedagogical mission of the university but its institutional support for anti-racism. Given that there is no dedicated Center or Department for Critical Race Studies, we see ourselves as filling a crucial gap, especially because of the urgent need to address the experiences of racialized students and to dismantle white supremacy and foster a culture of anti-racism at Carleton. Given the recent anti-Black killings of George Floyd, Regis Korchinski-Paquet, Breonna Taylor, Tony McDade, and far too many others, and the protests and uprisings they have catalyzed both within Canada and globally, this is a moment whose time has not only come but is long overdue. Although plans for this Critical Race Studies minor have been underway for some time, as part of a larger plan for curricular change within the Institute of Women's and Gender Studies, we hope that this initiative will address some of the demands made in the June 30 letter to President Bacon about our shared responsibility in "Addressing Systemic Racism at Carleton," as well as the draft EDI Action Plan currently under discussion.

Housed within the Institute, the minor will complement our existing areas of study, which include a major and minor in Women's and Gender Studies, and minors in Sexuality Studies and Disability Studies (that moved from IIS to the PJIWGS in 2018). We are currently restructuring ourselves so as to frame these interdiscipinary fields as interconnected and to encourage students to acquire a solid intersectional grounding in all of them. {Note: although a new name for the Institute that will signal these changes has yet to be finalized, "Feminist Institute of Social Transformation" is currently under discussion.} Our re-organization responds to our understanding of feminism as intersectional, and our proposed minor in Critical Race Studies stems from our desire to more explicitly foreground anti-racism, especially anti-black racism, and decolonial practices as central to our efforts to address multiple forms of social difference. We can't integrate Disability Studies and Sexuality Studies fully into our curriculum without also foregrounding Critical Race Studies, an area in which we have been developing curriculum in recent years and in which we were recently able to make a tenure-track hire. (Manjeet Birk will join us in July 2021.) The Institute's current configuration also builds on its strong foundation in transnational feminisms, as a result of the hiring and promotion to tenure of Megan Rivers-Moore and

Amrita Hari, as well as the work of Thuy Nguyen (jointly-appointed with CHST) in transnational disability studies. Despite the loss of Grace Ogunyankin, which means we currently have no Black faculty members, we seek to maintain strong ties with the Institute of African Studies, including through the cross-appointment of Shireen Hassim, the Canada 150 Research Chair in Gender and African Studies.

With the addition of Disability Studies and Sexuality Studies to the Institute, the Institute's grounding in women's and gender studies has now evolved into an intersectional, multi-disciplinary framework. Our desire to foreground Critical Race Studies also builds on the centrality of global and transnational studies, as well as decolonial and Indigenous frames, to our faculty's teaching and research. Thus we hope that our minor in Critical Race Studies will foster relationships with a variety of related units on campus, including with our many cross-appointed faculty with expertise in critical race studies, transnational studies, and Indigenous studies. We seek to build on existing collaborations with many units on the campus doing this work, including the Institute of African Studies, Human Rights and Social Justice (with whom we share faculty members Dan Irving and Pat Gentile), Sociology and Anthropology, which plays a central role in social justice work at Carleton, Law and Legal Studies (which includes many cross-appointed faculty who do intersectional work on gender and sexuality), Latin American and Caribbean Studies, and Migration and Diaspora Studies, to name some important cases. We would also be able to contribute to emerging plans for a BIPOC faculty network and the expansion of anti-black racisms and Indigenous initiatives on campus now being catalyzed by the EDI Action Plan and Kinàmàgawan. We would hope to support vigorous and proactive efforts to hire - and retain - racialized and Indigenous faculty, especially by making an institutional home for those with interests in gender, sexuality, and disability studies.

2. Principal Goals of the Program

Our primary goal would be to provide students with resources in critical race studies that would allow them to learn about white supremacy, settler colonialism, Indigeneity, anti-black and systemic racisms, and histories of racialization, migration, and diaspora in Canada, which form a central foundation for any intellectual endeavour – and for public citizenship. Moreover, we will offer students the opportunity to think about categories of race and racialization as necessarily entangled with gender, sexuality, and disability, the other categories that are explicltly represented in our curriculum, along with other forms of social difference. Also central to our curriculum is training in activisms and social justice, including experiential learning and other practical training, and we are thus well situated to provide students with skills in the theory and practice of anti-racist activisms. We would build on our existing collaborations with other departments and units that do this work, so that the minor could serve as a foundation for increased forms of institution building at Carleton that are currently under discussion. We would aim to meet the needs of both racialized students and settler colonial students who seek to understand their own experiences in the context of larger histories of colonialism and racial capitalism. We understand this work to entail providing not only courses and minors but institutional homes, particularly for racialized students subject to hostile environments and lack of representation. Students who have taken courses in Critical Race Studies developed and taught in the past two years by Nael Bhanji and Manjeet Birk have commented on how important it was to them to take courses taught by racialized faculty. Given that we already do provide this kind of institutional support, and seek to work in partnership with faculty across the campus, we would be in a good position to foster this collaborative environment.

3. Program Structure

The minor will draw on existing courses and resources both within the Institute and in other departments and units. Students in the minor will be required to take the Institute's first-year full-year core course, WGST 1808, which is being transformed and updated so that it can serve as an introduction to all of our Minors (and our Majors) that underscores their intersectional connections. Under the expert direction of Katie Bausch, WGST 1808 Introduction to Women's and Gender Studies has already been doing this work; in order to reflect the changes we have submitted a proposal to rename the course WGST 1808 Introduction to Feminist Social Transformation for 2020-21.)

There will be an additional required core course in Critical Race Studies (CRST 2001), at the second-year introductory level, which parallels the second-year core courses for our other minors: SXST 2101, DBST 2001, and WGST 2801. In an effort to ensure that our WGST Majors receive intersectional training, we will require that they take at least one of CRST 2001, DBST 2001, or SXST 2101 (along with WGST 2801, Feminism, Activism, and Social Justice) and that they have at least 0.5 credits in each area. Thus the CRST curriculum will be integral to our other Minors and our Majors. We also plan to offer an advanced fourth-year course (CRST 4001) (with cross-listing as a grad course) but are not requiring it for the Minor in order to keep it accessible for BA General students.

We are fortunate to have been able to hire Manjeet Birk in a tenure-track position dedicated to Critical Race Studies, and she will be developing both these courses, including provisions for having others teach them so as to make the staffing more sustainable. (For course descriptions and other information about the requirements for the Minor, see the appendices as the end of this document.)

We would also encourage students to take advantage of the other courses offered within the Institute, since we seek to make critical race studies and its intersections with gender, sexuality, and disability studies, as well as Indigenous and decolonial frameworks, central to all of our courses. Moreover, {as our list of approved electives suggests} courses in critical race studies and related areas are increasingly being offered in departments across the campus, and we would hope to be able to take advantage of such courses. We would serve as a hub for students and faculty working in this area and foster increased curriculum, recruitment and retention of both faculty and students, and other institutional initiatives. We already have strong ties with many relevant units because of cross-appointed faculty whose commitments to gender and sexuality necessarily entail a focus on race and racism. We would likely work especially closely with the Institute of African Studies, Human Rights and Social Justice (in which 2 of our faculty hold joint appointments), Indigenous and Canadian Studies, Sociology and Anthropology, Latin American and Caribbean Studies, the Migration and Diaspora Initiative, and Law and Legal Studies, among others, especially as more departments make hires in critical race studies and related fields. Our current emphasis on experiential learning, diversity, inclusion, accessibility, and social justice means that we have a strong foundation for anti-racist work that is intersectional, and our commitment to an inclusive feminist pedagogy means that we can provide an institutional home for racialized students, although being able to hire more racialized faculty would be necessary to our success in doing so.

Current International, National and Provincial Profile

There are still very few programs in Canada at the undergraduate or graduate level that focus specifically on Critical Race Studies, and Black Studies programs are also still very small in number and often quite new. In our examination of the scope of current Critical Race Studies programs in Canada,

we looked at those offered at all accredited Canadian universities at both the undergraduate and graduate level in the following areas: critical race, migration and diaspora, and more broadly, human rights and social justice. Although there is coverage of critical race studies in human rights and social justice programs (20), migration and diaspora programs (5), there were only 12 programs with critical race studies as their central focus. There are also 34 area studies programs (such as African Studies or Latin American/Caribbean Studies at Carleton), but since their primary focus is often on regions outside of Canada, they don't always address the lived experience and politics of race and racialization in Canada that are the focus of this Minor.

Of those 12 programs, six were located in Ontario, and of those four were in Toronto (two at U of T, and two at York). The remaining two Ontario programs were located at Queen's and Western. Two Ontario schools currently offer an undergraduate major with a critical race focus (Gender Studies at Queen's, and Critical Studies in Equity and Solidarity at U of T). Both of those programs also offer a Minor at the undergraduate level, and Western offers a Minor in Feminist, Queer, and Critical Race Theory (but no major). The remaining critical race programs in Ontario are offered as either certificate programs, or graduate programs. York University has a certificate in Black Canadian Studies, Dalhousie has a minor in Black African Diaspora, and Queen's is currently developing a Black Studies program.

It should noted also that, similar to what we are envisioning at Carleton, many existing critical race studies are housed within interdisciplinary or collaborative programs focused on social justice, equity, or human rights, especially cutting edge versions of Women's and Gender Studies programs. Critical Race Studies is part of the move towards intersectional gender and sexuality studies in programs such as UBC's Gender, Race, Sexuality, and Social Justice Institute (which has a BA and MA); McGill's Gender, Sexuality, Feminist, and Social Justice Studies BA; and the minor in Feminist, Queer, and Critical Race Theory at Western.

It is our belief that students interested in Critical Race Studies will gravitate towards programs that highlight it, as we plan to do, as a key area of analysis in their program descriptions and course calendars. As mentioned, there are currently three schools in Ontario that offer a Minor program with a strong critical race focus (Queen's, U of T, and Western). None of those minors focus exclusively on critical race; they all feature Critical Race Studies as a core component of a larger program focused on social justice and human rights. While Carleton's program would also be interdisciplinary given its home base in the Feminist Institute of Social Transformation, it would allow students to specialize in critical race studies while maintaining an intersectional focus. Carleton already offers a wide variety of courses across numerous departments that focus on critical race, and would be able to offer this Minor collaboratively without significant restructuring of existing programs.

Mission and Strategic Directions

Although explicit mention of racialization and anti-racism is notably absent from Carleton's new Strategic Plan, these concepts are implicitly present in its focus on diversity and inclusion, which includes statements such as the following: "Carleton's strength lies in its diversity—the diversity of its communities and in the perspectives it engages. We will continue to progress in equity and inclusivity across our organization and across the academic and research enterprises." Pathways for reaching this goal include: "Encourage and nurture inclusivity and a diversity of perspectives and identities to strengthen our communities" and "Strengthen employee recruitment, retention and advancement based on principles of inclusive excellence and our commitment to equity." An academic program in critical race studies would not only reach students but also serve as a site of visibility for faculty doing

work in these areas, and encourage the recruitment and retention of racialized faculty so that our faculty demographics more closely resemble those of our students. It would also help catalyze administrative and institutional change of the kind fostered, for example, by the newly expanded Office of Equity and Inclusive Communities.

Just as this proposal was being finalized, Carleton released a draft of its proposed Equity, Diversity, and Inclusion Action Plan, which not only bolsters the case for the Critical Race Studies Minor but further enhances it by calling for a degree program in Critical Race Studies. We hope to be part of this initiative going forward, which will require additional institutional resources, including faculty and staff. The work that we have done towards assembling this proposal lays the groundwork for a degree program in Critical Race Studies in so far as we have identified existing courses and departments and programs that are already offering this curriculum. It is clear that many units are also seeking to expand their profile in this area and a collaborative approach to offering curriculum and institutional support – including additional faculty and staff -- has great momentum and potential.

We also see Kinàmàgawin, the University's new Indigenous Stategic Initiatives Plan, which is central to SIP, as a key frame for this proposal as well. We would like to provide Carleton's students with the tools to think about the intersections of Critical Race Studies and Indignous Studies, and to explore Canada's deeply entangled histories of settler colonialism and racism, as well as movements towards Indigenous resurgence and anti-racist cultures and institutions. The minor would situate Critical Race Studies within an Indigenous and decolonizing context, which are enabled by the Institute's long-standing intersectional approach to gender and sexuality.

It should be noted also that the Critical Race Studies Minor will sit alongside minors in Sexuality Studies, Disability Studies and Women's and Gender Studies – and students will share a foundational introductory course that will link these areas and and encourage work across them. Thus, for example, our efforts to build Disability Studies, in keeping with Carleton's Coordinated Accessibility Strategy, would also enhance this Minor.

Carleton's commitment to diversity, inclusion, and accessibility are all the more urgent in light of recent events, and the call for a coordinated approach to anti-Black racisms and systemic racism on our campus. This minor would be one way in which this crucial need could be met.

Impact on Other Programs

We see this minor serving as a point of intersection for work in critical race studies across a variety of departments, majors, and disciplines because it cuts across all of them and demands that we develop critical perspectives on how white supremacy and racism are embedded in all structures of knowledge production and the history of the university.   A minor is a good way to do this work because we can reach students in a range of majors, including those in FPA and Faculty of Sciences, and offer critical approaches to the work they are doing in other areas. As with our classes in WGST, SXST, DBST, we expect that students will be interested in our curriculum because it speaks to their personal and public experience in ways that their courses may not. We would seek to work collaboratively with as many other units as possible – drawing on their course offerings and programs. We hope our work would encourage other units to develop curriculum in critical race studies for the benefit of all of our students. We would also welcome the opportunity to contribute to a BIPOC faculty network and other institutional initiatives currently being requested so as to create an anti-racist campus.

Societal Need

Social justice organizing requires an intersectional approach, and with the rise of GBA+ (gender-based analysis) in all federal government programs (see note below), there is high demand in the workforce for graduates who can take a critical approach to program development and policy that considers the impact of factors like race, ability, sexual orientation, class, and age in tandem with gender identity. In order to ensure students are equipped to meet this demand, institutions must be intersectional in their program design, and ensure students have the ability to specialize, while also having access to a range of critical and reflective courses that address the broad range of social, political, and legal factors that contribute to ongoing oppression and inequality.

The current political climate has emphasized the need for programs that give students the tools to engage with issues related to race and racism from a critical perspective, and in conversation with related fields like women's and gender studies, critical disability studies, human rights and social justice, and Indigenous studies. The current covid-19 pandemic has made clear, for example, the importance of an intersectional understanding of the racialized inequities that affect access to health care, rates of illness and mortality, and economic impact. Many activists have been campaigning for universities to introduce mandatory critical race studies courses for undergraduates to ensure students are well-equipped to challenge ongoing racism in their communities, and Carleton is well-positioned to be on the cutting edge of delivering new programs to meet this need.

[Note: GBA+, which is now incorporated into all departments across the Federal government, and may soon expand to other sectors, is "an analytical process used to assess how diverse groups of women, men and non-binary people may experience policies, programs and initiatives. The 'plus' in GBA+ acknowledges that GBA goes beyond biological (sex) and socio-cultural (gender) differences. We all have multiple identity factors that intersect to make us who we are; GBA+ also considers many other identity factors, like race, ethnicity, religion, age, and mental or physical disability." (Info/source on GBA+: https://cfc-swc.gc.ca/gba-acs/index-en.html)]

Student Demand

We expect student demand to be strong because a Critical Race Studies minor addresses both racialized students looking for course work and institutional support that reflects their lived experiences and histories and white/settler students who are increasingly aware, as recent events suggest, of the need to learn more about histories of racism and settler colonialism in Canada and beyond. The circulation of anti-racist reading lists in popular media suggests the importance of providing curriculum in this area. As is the case with many of our existing courses, including our large introductory courses in WGST (400 students), SXST (120 students), and DBST (120-180 students), we anticipate that there would be strong general interest in courses focused on Critical Race Studies.

Indeed, the above claims are further bolstered by anti-racist calls to action across the summer of 2020. A student petition requesting anti-racist curriculum has gathered thousands of signatures, and Michael Charles, the newly appointed AVP for Equity and Inclusive Communities, has been meeting with students in an effort to address their demands. Our Minor would be a modest, but nonetheless significant, step towards providing this curriculum and would help students interested in Critical Race Studies and anti-racist curriculum identify courses they might take – and faculty from whom they might seek mentorship.

Resources

Faculty resources:

We expect to be able to meet the needs of the program – a 2000-level introductory course and a 4000-level advanced course with available faculty in IWGS, especially since we hired a faculty memer specifically in Critical Race Studies -- Manjeet Birk, who will begin in fall 2021 -- who will be able to develop and teach these and other courses. We also see this minor and accompanying coursework as integral to our intersectional major and other minors; all of our faculty have commitments to critical race studies and anti-racist pedagogy, which are central to all of our courses. Moreover, there is work of this kind going on across Carleton and, ideally, more to come. Indeed, this curriculum could be a driver for hiring more racialized faculty, including Indigenous and Black faculty. We seek to contribute to building the culture of diversity and the institutional structures necessary to an anti-racist and decolonial university, but that work cannot come solely from the Institute since it is work that needs to be integrated across the campus in all areas of the curriculum and student services.

Contract instructors:

Our goal is to have the core courses taught by full-time faculty so that we will not be reliant on the contingent labor of contract instructors to build the minor. It will be important for its success to have faculty who can not only teach courses but provide infrastructure, including mentoring and advising. That said, if we do not have enough qualified faculty to teach our courses – especially with sabbaticals – we would seek to hire CIs who can provide this important service.

Administrative support:

Since the minor will be housed in the Institute of Women's and Gender Studies, we will be able to rely on existing staff: Lana Keon as Institute Administrator and Ann Morneau, who as Assistant to the Joint Chair in Women's Studies also provides part-time assistance to the Institute.

Library resources:

Our librarian, Martha Attridge Bufton, has already been very active in supporting our research and teaching in critical race studies and its intersectional connections to our other areas of study. We expect that work in critical race studies will be a high priority for Carleton across the board and we would hope to catalyze visibility in this area.

It should be noted, though, that we may want to work with archives, museums, activist groups, and other local organizations, and a budget to provide honoraria for visitors, especially those who represent racialized groups whose labor has often been exploited, will be important.

Space:

We will be able to use the existing space that houses the Institute, which includes our seminar room. Our grad program is also a big help in mentoring undergrad students, and we have been trying to make our offices a congenial and welcoming space (including our efforts to secure a gender-inclusive washroom).   However, we would hope to partner with spaces that serve racialized students, such as the Office of Equity and Inclusive Communities, and CUSA groups such as the Gender and Sexuality Resource Center, Mawandoseg Centre, Carleton Disability Awareness Center, and the Womxn's Center. Just as there as been a call for space for Indigenous Initiatives, we will be alert to the need for space that serves a diverse student body. Having an academic home can serve as one way to amplify the available

resources and track student needs.   Our academic programming and events also become a way to create space and visibility.

Equipment:

None necessary for the kind of teaching and programming we do, but see above for the nature of space and creating public culture around anti-racism and critical race analysis.

Graduate student funding

Since this is an undergrad program, this does not apply. However, we do have an MA in Women's and Gender Studies for which critical race theory is central, and we expect there would be exchange between our grad and undergrad programs especially since our grad students are dedicated TAs for our undergrads and the two cultures connect.   Thus, the successful recruitment of racialized students to our graduate program will also benefit our undergraduate program. Furthermore, the success of the Critical Race Studies minor and the integration of our undergraduate Majors and Minors under the umbrella of an Institute for Feminist Social Transformation could lead to a discussion about a graduate certificate program in this area.

Business plan:

We have not included a business plan because we are not requesting any new resources at this time.

CRST Minor CourseLeaf Master Doc

Proposed Minor in Critical Race Studies
Credits included in the Minor (4.0 credits):
1. 1.0 WGST credit at the first-year level: WGST 1808 [1.0] Intro to Feminist Social Transformation FYSM 1402 [1.0] Issues in Feminist Social Transformation
2. 0.5 CRST credit at the second-year level in: CRST 2001 [0.5] Introduction to Critical Race Studies
3. 1.0 credits in CRST or CRST-approved electives at the 2000-level or higher
4. 1.5 credits in CRST or CRST-approved electives at the 3000-level or higher
5. The remaining requirements of the major discipline(s) and degree must be satisfied.

Critical Race Studies (Minor)

This section presents the requirements for programs in:

•Minor in Critical Race Studies

Program Requirements

Minor in Critical Race Studies (4.0 credits)

This minor is available to all undergraduate degree students.

Requirements:

1. **1.0 credit in:**

WGST 1808 [1.0] Introduction to Feminist Social Transformation

FYSM 1402 [1.0] Issues in Feminist Social Transformation

2. **0.5 credit in:**

CRST 2001 [0.5] Introduction to Critical Race Studies

3. **1.0 credits in** CRST or CRST-approved electives at the 2000-level or higher

4. **1.5 credits in** CRST or CRST-approved electives at the 3000-level or higher

5. The remaining requirements of the major discipline(s) and degree must be satisfied.

Total Credits: 4.0

Notes:
1. Other courses may be substituted for the credits specified in item 3 and 4, when material on critical race is central to the course. Such substitutions must be individually approved by the Institute of Women's and Gender Studies. Students are encouraged to consult course descriptions of Special Topics courses.

Critical Race Studies (CRST) Courses:

WGST 1808 [1.0 credit]

Introduction to Feminist Social Transformation

Overview of intersectional feminist debates as well as historical and contemporary theoretical traditions in gender and sexuality studies, critical race studies, and disability studies. Topics include the social construction of femininity, masculinity, and other identifications; Indigenous, decolonial, and transnational feminisms; arts, media, and cultural production.

Lectures and discussion three hours a week.

CRST 2001 [0.5 credit]

Introduction to Critical Race Studies

Introduction to the foundations and central tenets of Critical Race Theory, its interdisciplinary debates, applications, and evolutions. Historical roots of oppression, white settler-colonialism, understanding of privilege and power, social construction of race, socio-political conditions producing systemic and institutional racism, and intersections with sexism, homophobia, transphobia, classism, and ableism.

Includes: Experiential Learning Activity

Prerequisite(s): one of WGST 1808, DBST1001, HUMR 1001, FYSM 1402 or FYSM 1403 or permission of the Institute of Women's and Gender Studies.

Lectures and discussion three hours a week.

CRST 4001 [0.5 credit]

Advanced Critical Race Studies

Interdisciplinary seminar on race, colonialism and feminisms including theories of racial and cultural difference, structures of privilege and power, and forms of resistance. Intersectional theoretical approaches to anti-colonial and feminist analyses of racial subjugation, and engagements with Black, Indigenous and women of colour feminisms.

Includes: Experiential Learning Activity

Prerequisite(s): fourth-year standing and 1.0 credit in Women's and Gender Studies or permission of the Institute of Women's and Gender Studies.

Seminar three hours a week.

Approved Critical Race Studies Electives:

Note: access to these courses is not guaranteed, and may depend on space availability and the satisfaction of other requirements such as course prerequisites.

African Studies

AFRI 2006 [0.5] Southern Africa

AFRI 3001 [0.5] Globalization and Popular Culture in Africa

AFRI 3002 [0.5] Regions in Africa: Cultures, Society, Politics

AFRI 3003 [0.5] African Social and Political Thought

AFRI 3005 [0.5] African Migrations and Diasporas

AFRI 3609 [0.5] African Cinema

Anthropology

ANTH 1001 [0.5] Introduction to Anthropology

ANTH 2001 [1.0] Foundations in Socio-Cultural Anthropology

ANTH 2020 [0.5] Race and Ethnicity

ANTH 2610 [0.5] Studies in Indigenous Peoples of North America: Current Issues in Anthropological Research

ANTH 2620 [0.5] Ethnography of Sub-Saharan Africa

ANTH 2630 [0.5] Studies in Asian Societies: Current Issues in Anthropological Research

ANTH 2635 [0.5] Tradition and Modernity in the Pacific

ANTH 2640 [0.5] Andean Ethnography

ANTH 2660 [0.5] Ethnography of North Africa

ANTH 2670 [0.5] Ethnography of Brazil

ANTH 3020 [0.5] Studies in Race and Ethnicity

ANTH 3600 [0.5] Studies in Anthropology and Indigenous Peoples

ANTH 4006 [0.5] Decolonizing Methodologies in the 21st Century: Practicing Engaged Anthropology

ANTH 4020 [0.5] Advanced Studies in Race and Ethnicity

ANTH 4109 [0.5] Ethnography, Gender and Globalization

ANTH 4200 [0.5] War, Security and Citizenship

ANTH 4610 [0.5] Advanced Studies in Indigenous Peoples

ANTH 4620 [0.5] Advanced Studies in Contemporary Sub-Saharan Africa: Current Issues in Anthropological Research

ANTH 4730 [0.5] Colonialism and Post-Colonialism

ANTH 4750 [0.5] Advanced Studies in Globalization and Citizenship

Communications and Media

COMS 3109 [0.5] Communication, Culture and Identity

Disability Studies

DBST 2001 [0.5] Disabling Society

DBST 3001 [0.5] Disability Studies: Policy and Activism

DBST 3060 [0.5] Critical Disability Studies

DBST 3304 [0.5] Disability and Childhood: Transnational Perspectives

Economics

ECON 3380 [0.5] The Economics of Gender and Ethnicity

European Studies

EURR 4008 [0.5] Nationalism and Ethnic Conflict in Eastern and Central Europe

EURR 4205 [0.5] Politics of Identity in Europe and the Russian Area

EURR 4209 [0.5] Politics of the Caucasus and Caspian Basin

Film Studies

FILM 3609 [0.5] African Cinema

Geography

GEOG 1023 [0.5] Introduction to Cities and Urbanization

GEOG 2023 [0.5] Cities, Inequality and Urban Change

GEOG 2300 [0.5] Space, Place and Culture

GEOG 3021 [0.5] Geographies of Culture and Identity

GEOG 3023 [0.5] Cities in a Global World

GEOG 4021 [0.5] Seminar in Culture, Identity and Place

GEOG 4023 [0.5] Seminar in Special Topics on the City

GEOG 4323 [0.5] Urban and Regional Planning

History

HIST 3102 [0.5] Queer(ing) Archives

HIST 3505 [0.5] Women in Canada

HIST 3710 [0.5] Themes in Caribbean History

Human Rights

HUMR 1001 [1.0] Introduction to Human Rights

HUMR 2102 [0.5] Sexuality, Gender and Security

HUMR 2502 [0.5] Social and Political Movements

Indigenous and Canadian Studies

CDNS 1000 [1.0] Introduction to Canadian Studies

CDNS 1001 [0.5] Studying Canada

CDNS 1002 [0.5] Themes in the Study of Canada

CDNS 1102 [0.5] Introduction to Canada and the World

CDNS 2210 [0.5] Introduction to the Study of Canadian Culture

CDNS 2300 [0.5] Critical Nationalism

CDNS 3600 [0.5] Cultural Politics and Identities in Canada

CDNS 3700 [0.5] Cultural Traditions in Canada

CDNS 4010 [0.5] Language, Culture, and Power in Canada

CDNS 4300 [0.5] Contested Spaces and Communities

CDNS 4400 [0.5] Cultural Landscape and Cultural Identity in Canada

CDNS 4500 [0.5] Canada and the World

INDG 1000 [0.5] Introduction to Indigenous Studies

INDG 1010 [0.5] Introduction to Indigenous Peoplehood Studies

INDG 1011 [0.5] Introduction to Indigenous-Settler Encounters

INDG 2011 [0.5] Contemporary Indigenous Studies

INDG 2020 [0.5] Decolonizing Gender, Sex, and Sexuality

INDG 3011 [0.5] Indigenous Rights, Resistance and Resurgence

INDG 4001 [0.5] Indigeneity and the City

INDG 4011 [0.5] Indigenous Representations

Journalism

JOUR 4503 [0.5] Investigating Journalism: Journalism, Indigenous Peoples and Canada

Latin American and Caribbean Studies

LACS 1001 [0.5] Introduction to Latin American and Caribbean Studies I

LACS 1002 [0.5] Introduction to Latin American and Caribbean Studies II

LACS 4001 [0.5] Issues in Latin American and Caribbean Studies

LACS 4819 [0.5] Latin America and the World

Law and Legal Studies

LAWS 2105 [0.5] Social Justice and Human Rights

LAWS 3006 [0.5] Mediation

LAWS 3105 [0.5] Theory of Law and Politics

LAWS 3106 [0.5] Law and Social Regulation

LAWS 3306 [0.5] Crime, Law, Process and Politics

LAWS 3503 [0.5] Equality and Discrimination

LAWS 3504 [0.5] Law and Aboriginal Peoples

LAWS 3509 [0.5] The Charter of Rights Topics

LAWS 3602 [0.5] International Human Rights

LAWS 4002 [0.5] Feminist Theories of Law

LAWS 4102 [0.5] Controversies in Rights Theory

LAWS 4105 [0.5] Global Justice Theory

LAWS 4305 [0.5] Criminal Justice Reform

LAWS 4504 [0.5] Indigenous Criminal Justice

LAWS 4601 [0.5] Transnational Law and Human Rights

LAWS 4607 [0.5] Immigration and Refugee Law

LAWS 4800 [0.5] Environmental and Social Justice

Music

MUSI 2005 [0.5] Introduction to Jazz History

MUSI 4005 [0.5] Issues in Jazz Studies

Philosophy

PHIL 1550 [0.5] Introduction to Ethics and Social Issues

FYM 1212 [0.5] Contemporary Moral, Social, and Religious Issues

PHIL 2306 [0.5] Philosophy and Feminism

PHIL 2307 [0.5] Gender and Philosophy

Political Science

PSCI 2002 [0.5] Canadian Politics and Civil Society

PSCI 2102 [0.5] Comparative Politics of the Global South

PSCI 3006 [0.5] Social Power in Canadian Politics

PSCI 3105 [0.5] Imperialism

PSCI 3108 [0.5] Politics of Popular Culture

PSCI 3109 [0.5] The Politics of Law and Morality

PSCI 3200 [0.5] U.S. Constitutional Politics

PSCI 3302 [0.5] Comparative Political Thought

PSCI 3303 [0.5] Feminist Political Theory

PSCI 3307 [0.5] Politics of Human Rights

PSCI 3805 [0.5] Politics of Race

PSCI 4109 [0.5] The Politics of the Canadian Charter of Rights and Freedoms

PSCI 4203 [0.5] Southern Africa After Apartheid

PSCI 4210 [0.5] Political Identity Through Graphic Novels

PSCI 4501 [0.5] Politics of Identity in Europe and the Russian Area

Religion

RELI 1720 [0.5] Indigenous Religions in a Global Context [Note: next year this will be replaced by RELI 2800, which is otherwise almost identical]

RELI 2712 [0.5] Religious Diversity of Canada

RELI 2720 [0.5] Indigenous Religions of Canada

RELI 3140 [0.5] Holocaust Encounters

RELI 3250 [0.5] Evangelical Christianity in Social-Historical Perspective

Sexuality Studies

SXST 2101 [0.5] Sexuality Studies: A Critical Introduction

SXST 2102 [0.5] Sexuality, Gender, and Security

SXST 3103 [0.5] Sexuality and Disability

SXST 3104 [0.5] Transnational Sexualities

SXST 3106 [0.5] Queer(ing) Archives

SXST 4101 [0.5] Interdisciplinary Studies of Sexuality

SXST 4102 [0.5] Queer Theory

SXST 4103 [0.5] Politics of Kink

SXST 4104 [0.5] Sexuality and Political Economy

SXST 4105 [0.5] Queer Ecologies

SXST 4106 [0.5] Queer Aesthetics: Affect, Cultural Production, Sexuality

Social Work

SOWK 4301 [0.5] Racialization and Social Work

Sociology

SOCI 1001 [0.5] Introduction to Sociology

SOCI 1002 [0.5] Introduction to Sociology II

SOCI 2010 [0.5] Critical Approaches to Economic Inequality

SOCI 2020 [0.5] Race and Ethnicity

SOCI 2050 [0.5] Sociology of Health

SOCI 2170 [0.5] Foundations in Social Justice

SOCI 2702 [0.5] Power and Social Change

SOCI 3010 [0.5] Power, Oppression and Resistance

SOCI 3019 [0.5] International Migration

SOCI 3020 [0.5] Studies in Race and Ethnicity

SOCI 3040 [0.5] Studies in the Sociology of Gender

SOCI 3056 [0.5] Women and Health

SOCI 3060 [0.5] Critical Disability Studies

SOCI 3170 [0.5] Social Justice in Action

SOCI 3430 [0.5] Studies in Collective Action and Social Movements

SOCI 3450 [0.5] Studies in Law Enforcement

SOCI 3480 [0.5] Law and Social Regulation

SOCI 3805 [0.5] Studies in Population

SOCI 4020 [0.5] Advanced Studies in Race and Ethnicity

SOCI 4039 [0.5] Women in Contemporary Middle East Societies

SOCI 4040 [0.5] Feminist Sociology of Intersectionality

SOCI 4043 [0.5] Families in the 21st Century

SOCI 4160 [0.5] War, Terrorism, State Terrorism

SOCI 4200 [0.5] War, Security, Citizenship

SOCI 4730 [0.5] Colonialism and Post-Colonialism

SOCI 4750 [0.5] Globalisation and Citizenship

Women's and Gender Studies

WGST 2801 [0.5] Activism, Feminisms, and Social Justice

WGST 2803 [0.5] Body Matters: The Politics of Bodies

WGST 2811 [0.5] Masculinities

WGST 2812 [0.5] Selected Topics in Women's and Gender Studies

WGST 2814 [0.5] Gender, Sexuality and Cultural Production

WGST 3803 [0.5] Feminisms and Transnationalism

WGST 3806 [0.5] Girlhoods

WGST 3807 [0.5] Gendered Violence

WGST 3812 [0.5] Selected Topics in Women's and Gender Studies

WGST 4812 [0.5] Selected Topics in Women's and Gender Studies

New Program Proposal

Date Submitted: 09/11/20 1:37 pm

Viewing: **TBD-2038 : Minor in Critical Race Studies**

Last edit: 12/09/20 3:17 pm

Last modified by: sarahcleary

Changes proposed by: lanakeon

In Workflow

1. **WOMN ChairDir UG**
2. **AS Dean**
3. **AS FCC**
4. **AS FBoard**
5. **PRE SCCASP**
6. **SCCASP**
7. SQAPC
8. Senate
9. PRE CalEditor
10. CalEditor

Approval Path

1. 09/14/20 2:59 pm
   Ann Cvetkovich
   (anncvetkovich):
   Approved for WOMN
   ChairDir UG
2. 11/26/20 2:37 pm
   Peter Thompson
   (peterthompson):
   Approved for AS Dean
3. 12/08/20 9:56 am
   Peter Thompson
   (peterthompson):
   Approved for AS FCC
4. 12/08/20 8:37 pm
   Peter Thompson
   (peterthompson):
   Approved for AS FBoard
5. 12/09/20 3:17 pm
   Sarah Cleary
   (sarahcleary): Approved
   for PRE SCCASP

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2038
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Pauline Jewett Institute of Women's and Gender Studies

Degree   Not Applicable

Title   Minor in Critical Race Studies

Program Requirements

Minor in Critical Race Studies (4.0 credits)

This minor is available to all undergraduate degree students.

Requirements:
1. **1.0 credit from:**   **1.0**
   FYSM 1402 [1.0]   **Issues in Women's and Gender Studies**
   WGST 1808 [1.0]   **Introduction to Feminist Social Transformation**
2. **0.5 credit in:**   **0.5**
   CRST 2001 [0.0]   **Introduction to Critical Race Studies**
3. **1.0 credits in CRST or CRST-approved electives at the 2000-level or higher**   **1.0**
4. **1.5 credits in CRST or CRST-approved electives at the 3000-level or higher**   **1.5**
5. **The remaining credits of the major discipline(s) and degree must be satisfied.**

Total Credits   4.0

Notes:

Other courses may be substituted for the credits specified in item 3 and 4, when material on critical race is central to the course. Such substitutions must be individually approved by the Institute of Women's and Gender Studies. Students are encouraged to consult course descriptions of Special Topics courses.

New Resources	No New Resources
Summary	Add new minor in CRST [4.0 credits] Critical Race Studies
Rationale	These submissions are part of the new Minor in Critical Race Studies for which a proposal is being submitted for review. This change is part of a larger group of changes designed to integrate our Majors and Minors in WGST, SXST, DBST, and the new CRST (Critical Race Studies). The revised introductory course, the revised 3000-level theory and methods course, and the other changes to program requirements are all designed to make our programs more fully intersectional and to connect them with one another.
Transition/Implementation	Updated website, announcements in CU media, emails to students in all arts and social sciences majors, etc.
Program reviewer comments	**sarahcleary (12/09/20 3:17 pm):** Minor edits to section 1.

Key: 2038

New Program Proposal

Date Submitted: 09/14/20 3:46 pm

Viewing: **TBD-2039 : Electives-UG-Critical Race Studies**

Last edit: 12/09/20 3:23 pm

Last modified by: sarahcleary

Changes proposed by: lanakeon

In Workflow

1. **WOMN ChairDir UG**
2. **AS Dean**
3. **AS FCC**
4. **AS FBoard**
5. **PRE SCCASP**
6. **SCCASP**
7. SQAPC
8. Senate
9. PRE CalEditor
10. CalEditor

Approval Path

1. 09/14/20 8:51 am
   Ann Cvetkovich
   (anncvetkovich): Rollback
   to Initiator
2. 09/14/20 3:05 pm
   Ann Cvetkovich
   (anncvetkovich): Rollback
   to Initiator
3. 09/14/20 3:47 pm
   Ann Cvetkovich
   (anncvetkovich):
   Approved for WOMN
   ChairDir UG
4. 11/26/20 2:38 pm
   Peter Thompson
   (peterthompson):
   Approved for AS Dean
5. 12/08/20 9:56 am
   Peter Thompson
   (peterthompson):
   Approved for AS FCC
6. 12/08/20 8:38 pm
   Peter Thompson
   (peterthompson):
   Approved for AS FBoard
7. 12/09/20 3:23 pm
   Sarah Cleary
   (sarahcleary): Approved
   for PRE SCCASP

Effective Date	2021-22
Workflow	majormod

Program Code	TBD-2039
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Pauline Jewett Institute of Women's and Gender Studies
Degree	Not Applicable
Title	Electives-UG-Critical Race Studies

Program Requirements

Approved Critical Race Studies Electives

Note: access to these courses is not guaranteed, and may depend on space availability and the satisfaction of other requirements such as course prerequisites.

African Studies

AFRI 2006 [0.5]   **Southern Africa**
AFRI 3001 [0.5]   **Globalization and Popular Culture in Africa**
AFRI 3002 [0.5]   **Regions in Africa: Cultures, Society, Politics**
AFRI 3003 [0.5]   **African Social and Political Thought**
AFRI 3005 [0.5]   **African Migrations and Diasporas**
AFRI 3609 [0.5]   **African Cinema**

Anthropology

ANTH 1001 [0.5]   **Introduction to Socio-cultural Anthropology**
ANTH 2001 [1.0]   **Foundations in Socio-Cultural Anthropology**
ANTH 2020 [0.5]   **Race and Ethnicity**
ANTH 2610 [0.5]   **Studies in Indigenous Peoples of North America: Current Issues in Anthropological Research**
ANTH 2620 [0.5]   **Ethnography of Sub-Saharan Africa**
ANTH 2630 [0.5]   **Studies in Asian Societies: Current Issues in Anthropological Research**
ANTH 2635 [0.5]   **Tradition and Modernity in the Pacific**
ANTH 2640 [0.5]   **Andean Ethnography**
ANTH 2660 [0.5]   **Ethnography of North Africa**
ANTH 2670 [0.5]   **Ethnography of Brazil**
ANTH 3020 [0.5]   **Studies in Race and Ethnicity**
ANTH 3600 [0.5]   **Studies in Anthropology and Indigenous Peoples**
ANTH 4006 [0.5]   **Decolonizing Methodologies in the 21st Century: Practicing Engaged Anthropology**
ANTH 4020 [0.5]   **Advanced Studies in Race and Ethnicity**
ANTH 4109 [0.5]   **Ethnography, Gender and Globalization**
ANTH 4200 [0.5]   **War, Security and Citizenship**
ANTH 4610 [0.5]   **Advanced Studies in Indigenous Peoples**
ANTH 4620 [0.5]   **Advanced Studies in Contemporary Sub-Saharan Africa: Current Issues in Anthropological Research**
ANTH 4730 [0.5]   **Colonialism and Post-Colonialism**
ANTH 4750 [0.5]   **Advanced Studies in Globalization and Citizenship**

Communications

    COMS 3109 [0.5]   **Communication, Culture and Identity**

Disability Studies

    DBST 2001 [0.5]   **Disabling Society**

    DBST 3001 [0.5]   **Disability Studies: Policy and Activism**

    DBST 3060 [0.5]   **Critical Disability Studies**

    DBST 3304 [0.5]   **Disability and Childhood: Transnational Perspectives**

Economics

    ECON 3380 [0.5]   **The Economics of Gender and Ethnicity**

European Studies

    EURR 4008 [0.5]   **Nationalism and Ethnic Conflict in Eastern and Central Europe**

    EURR 4205 [0.5]   **Politics of Identity in Europe and the Russian Area**

    EURR 4209 [0.5]   **Politics of the Caucasus and Caspian Basin**

Film Studies

    FILM 3609 [0.5]   **African Cinema**

Geography

    GEOG 1023 [0.5]   **Introduction to Cities and Urbanization**

    GEOG 2023 [0.5]   **Cities, Inequality and Urban Change**

    GEOG 2300 [0.5]   **Space, Place and Culture**

    GEOG 3021 [0.5]   **Geographies of Culture and Identity**

    GEOG 3023 [0.5]   **Cities in a Global World**

    GEOG 4021 [0.5]   **Seminar in Culture, Identity and Place**

    GEOG 4023 [0.5]   **Seminar in Special Topics on the City**

    GEOG 4323 [0.5]   **Urban and Regional Planning**

History

    HIST 3102 [0.5]   **Queer(ing) Archives**

    HIST 3505 [0.5]   **Women in Canada**

    HIST 3710 [0.5]   **Themes in Caribbean History**

Human Rights

    HUMR 1001 [1.0] **Introduction to Human Rights**

    HUMR 2102 [0.5] **Sexuality, Gender, and Security**

    HUMR 2502 [0.5] **Social and Political Movements**

Indigenous and Canadian Studies

    CDNS 1000 [1.0] **Introduction to Canadian Studies**

    CDNS 1001 [0.5] **Studying Canada**

    CDNS 1002 [0.5] **Themes in the Study of Canada**

    CDNS 1102 [0.5] **Introduction to Canada and the World**

    CDNS 2210 [0.5] **Introduction to the Study of Canadian Culture**

    CDNS 2300 [0.5] **Critical Nationalism**

    CDNS 3600 [0.5] **Cultural Politics and Identities in Canada**

    CDNS 3700 [0.5] **Cultural Traditions in Canada**

    CDNS 4010 [0.5] **Language, Culture, and Power in Canada**

    CDNS 4300 [0.5] **Contested Spaces and Communities**

    CDNS 4400 [0.5] **Cultural Landscape and Cultural Identity in Canada**

    CDNS 4500 [0.5] **Canada and the World**

    INDG 1000 [1.0] **Introduction to Indigenous Studies**

INDG 1010 [0.5]   Introduction to Indigenous Peoplehood Studies

INDG 1011 [0.5]   Introduction to Indigenous-Settler Encounters

INDG 2011 [0.5]   Contemporary Indigenous Studies

INDG 2020 [0.5]   Decolonizing Gender, Sex, and Sexuality

INDG 3011 [0.5]   Indigenous Rights, Resistance, and Resurgence

INDG 4001 [0.5]   Indigeneity in the City

INDG 4011 [0.5]   Indigenous Representations

Journalism

JOUR 4503 [0.5]   Investigating Journalism: Journalism, Indigenous Peoples and Canada

Latin American and Caribbean Studies

LACS 1001 [0.5]   Introduction to Latin American and Caribbean Studies I

LACS 1002 [0.5]   Introduction to Latin American and Caribbean Studies II

LACS 4001 [0.5]   Issues in Latin American and Caribbean Studies

LACS 4819 [0.5]   Latin America and the World

Law

LAWS 2105 [0.5]   Social Justice and Human Rights

LAWS 3006 [0.5]   Mediation

LAWS 3105 [0.5]   Theory of Law and Politics

LAWS 3106 [0.5]   Law and Social Regulation

LAWS 3306 [0.5]   Crime, Law, Process and Politics

LAWS 3503 [0.5]   Equality and Discrimination

LAWS 3504 [0.5]   Law and Aboriginal Peoples

LAWS 3509 [0.5]   The Charter of Rights Topics

LAWS 3602 [0.5]   International Human Rights

LAWS 4002 [0.5]   Feminist Theories of Law

LAWS 4102 [0.5]   Controversies in Rights Theory

LAWS 4105 [0.5]   Global Justice Theory

LAWS 4305 [0.5]   Criminal Justice Reform

LAWS 4504 [0.5]   Indigenous Criminal Justice

LAWS 4601 [0.5]   Transnational Law and Human Rights

LAWS 4607 [0.5]   Immigration and Refugee Law

LAWS 4800 [0.5]   Environment and Social Justice

Music

MUSI 2005 [0.5]   Introduction to Jazz History

MUSI 4005 [0.5]   Issues in Jazz Studies

Philosophy

FYSM 1212 [0.5]   Contemporary Moral, Social, and Religious Issues

PHIL 1550 [0.5]   Introduction to Ethics and Social Issues

PHIL 2306 [0.5]   Philosophy and Feminism

PHIL 2307 [0.5]   Gender and Philosophy

Political Science

PSCI 2002 [0.5]   Canadian Politics and Civil Society

PSCI 2102 [0.5]   Comparative Politics of the Global South

PSCI 3006 [0.5]   Social Power in Canadian Politics

PSCI 3105 [0.5]   Imperialism

PSCI 3108 [0.5]   Politics of Popular Culture

PSCI 3109 [0.5]   The Politics of Law and Morality

PSCI 3200 [0.5]   U.S. Constitutional Politics

PSCI 3302 [0.5]   Comparative Political Thought

PSCI 3303 [0.5]   Feminist Political Theory

PSCI 3307 [0.5]   Politics of Human Rights

PSCI 3805 [0.5]   Politics of Race

PSCI 4109 [0.5]   The Politics of the Canadian Charter of Rights and Freedoms

PSCI 4203 [0.5]   Southern Africa After Apartheid

PSCI 4210 [0.5]   Political Identity through Graphic Novels

PSCI 4501 [0.5]   Politics of Identity in Europe and the Russian Area

Religion

RELI 2712 [0.5]   Religious Diversity of Canada

RELI 2720 [0.5]   Indigenous Religions of Canada

RELI 3140 [0.5]   Holocaust Encounters

RELI 3250 [0.5]   Evangelical Christianity in Social-Historical Perspective

Sexuality Studies

SXST 2101 [0.5]   Sexuality Studies: A Critical Introduction

SXST 2102 [0.5]   Sexuality, Gender, and Security

SXST 3103 [0.5]   Sexuality and Disability

SXST 3104 [0.5]   Transnational Sexualities

SXST 3106 [0.5]   Queer(ing) Archives

SXST 4101 [0.5]   Interdisciplinary Studies of Sexuality

SXST 4102 [0.5]   Queer Theory

SXST 4103 [0.5]   Politics of Kink

SXST 4104 [0.5]   Sexuality and Political Economy

SXST 4105 [0.5]   Queer Ecologies

SXST 4106 [0.5]   Queer Aesthetics: Affect, Cultural Production, Sexuality

Social Work

SOWK 4301 [0.5]   Racialization and Social Work

Sociology

SOCI 1001 [0.5]   Introduction to Sociology I

SOCI 1002 [0.5]   Introduction to Sociology II

SOCI 2010 [0.5]   Critical Approaches to Economic Inequality

SOCI 2020 [0.5]   Race and Ethnicity

SOCI 2050 [0.5]   Sociology of Health

SOCI 2170 [0.5]   Foundations in Social Justice

SOCI 2702 [0.5]   Power and Social Change

SOCI 3010 [0.5]   Power, Oppression and Resistance

SOCI 3019 [0.5]   Sociology of International Migration

SOCI 3020 [0.5]   Studies in Race and Ethnicity

SOCI 3040 [0.5]   Studies in the Sociology of Gender

SOCI 3056 [0.5]   Women and Health

SOCI 3060 [0.5]   Critical Disability Studies

SOCI 3170 [0.5]   Social Justice in Action

SOCI 3430 [0.5]   Studies in Collective Action and Social Movements

SOCI 3450 [0.5]   Studies in Law Enforcement

SOCI 3480 [0.5]   Law and Social Regulation

SOCI 3805 [0.5]   Studies in Population

SOCI 4020 [0.5]   Advanced Studies in Race and Ethnicity

SOCI 4039 [0.5]   Women in Contemporary Middle East Societies

SOCI 4040 [0.5]   Feminist Sociology of Intersectionality

SOCI 4043 [0.5]   Families in the 21st Century

SOCI 4160 [0.5]   War, Terrorism and State Terrorism

SOCI 4200 [0.5]   War, Security and Citizenship

SOCI 4730 [0.5]   Colonialism and Post-Colonialism

SOCI 4750 [0.5]   Advanced Studies in Globalization and Citizenship

Women's and Gender Studies

WGST 2801 [0.5]   Activism, Feminisms, and Social Justice

WGST 2803 [0.5]   Body Matters: The Politics of Bodies

WGST 2811 [0.5]   Masculinities

WGST 2812 [0.5]   Selected Topics in Women's and Gender Studies

WGST 2814 [0.5]   Gender, Sexuality and Cultural Production

WGST 3803 [0.5]   Feminisms and Transnationalism

WGST 3806 [0.5]   Girlhoods

WGST 3807 [0.5]   Gendered Violence

WGST 3812 [0.5]   Selected Topics in Women's and Gender Studies

WGST 4812 [0.5]   Selected Topics in Women's and Gender Studies

New Resources	No New Resources
Summary	Add electives for the Critical Race Studies minor.
Rationale	These submissions are part of the new Minor in Critical Race Studies for which a proposal is being submitted for review. This change is part of a larger group of changes designed to integrate our Majors and Minors in WGST, SXST, DBST, and the new CRST (Critical Race Studies). The revised introductory course, the revised 3000-level theory and methods course, and the other changes to program requirements are all designed to make our programs more fully intersectional and to connect them with one another.
Transition/Implementation	Notification of additional minor and electives to all undergrad students in FASS and FPA departments.
Program reviewer comments	**anncvetkovich (09/14/20 8:51 am):** Rollback: Returning for further updates to the list. **anncvetkovich (09/14/20 3:05 pm):** Rollback: We need to add one more courses in COMS: Communication Culture and Identity. **sarahcleary (12/09/20 3:23 pm):** Removed RELI 1720 as it has been deactivated. Corrected Law header. Removed regulation language as it is not required.

Key: 2039

Minor in Critical Race Studies

Associated Minors

Course Code	Course Title
CRST 2001	Introduction to Critical Race Studies
CRST 4001	Advanced Critical Race Studies

Institutional Quality Assurance Process

Major Modification Not Requiring a Library Report

Date: November 10, 2020

From: Alana Skwarok, Collections Librarian (Arts & Social Sciences)

To: Robyn Green, Program Officer, Faculty of Arts & Social Sciences

cc   Amber Lannon, University Librarian
Laura Newton Miller, Head, Collections & Assessment
Sally Sax, Head, Electronic Resources & Acquisitions
Patti Harper, Head, Research Support Services

Recommendation

After review of Carleton University Library's information resources and services, no additional Library resources are required and so no report from the Library is necessary for the QA process for the the following new program:

o   Minor in Critical Race Studies

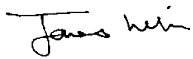This is a formal notification for your records.
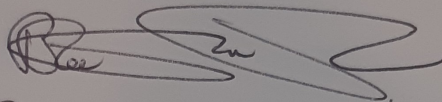
STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Critical Race Studies Minor

[x] I support this change unconditionally.

[ ] I do not support this change.

[ ] I support this change, with the following reservations:

Signature: *Melanie Leblanc*

Name: Melanie Leblanc

Title: School Administrator

Academic unit: Communication and Media Studies

Date: 9/14/2020

Notes: Signed on behalf of Josh Greenberg

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Critical Race Studies Minor

[ ] I support this change unconditionally.

[ ] I do not support this change.

[x] I support this change, with the following reservations:

Not so much a reservation as a qualifier, that the edits we have made to the DGES course list be included where possible (and the error in a course code corrected).

Signature:

Name: Scott Mitchell

Title: Chair

Academic unit: Geography and Environmental Studies

Date: 28 August 2020

Notes:

<u>STATEMENT OF SUPPORT FROM SISTER UNIT</u>

RE: Critical Race Studies Minor

[X] I support this change unconditionally.

[ ] I do not support this change.

[ ] I support this change, with the following reservations:

Signature:

Name: James Miller

Title: Chair

Academic unit:

History

Date: 12 Aug., 2020

Notes:

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Critical Race Studies Minor

[X] I support this change unconditionally.

[ ] I do not support this change.

[ ] I support this change, with the following reservations:

Signature:

Name: Paul Mkandawire

Title: DIRECTOR — HUMAN RIGHTS

Academic unit: IIS

Date: 11 SEPT 2020

Notes:

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Critical Race Studies Minor

[**X**] I support this change unconditionally.

[ ] I do not support this change.

[ ] I support this change, with the following reservations:

Signature: *Audra Diptée*

Name: **Audra A. Diptée**

Title: **Coordinator, Latin American and Caribbean Studies**

Academic unit: **Latin American and Caribbean Studies**

Date: **August 18, 2020**

Notes: N/A.

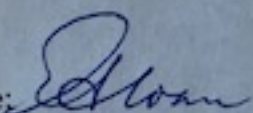STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Critical Race Studies Minor

[ ] I support this change unconditionally.

[ ] I do not support this change.

[X] I support this change, with the following reservations: The Department of Law and Legal Studies will need to assess the future impact of the minor on its course enrollments, but at this time it does not have any concerns in this regard.

Signature:

Name: Vincent Kazmierski

Title: Chair

Academic unit: Department of Law and Legal Studies

Date: September 10, 2020

Notes:

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Critical Race Studies Minor

[X] I support this change unconditionally.

[ ] I do not support this change.

[ ] I support this change, with the following reservations:

Signature: *Elinor Sloan* (signature)

Name: Elinor Sloan

Title: Chair

Academic unit: Dept. Political Science

Date: 17 August 2020

Notes: We cannot guarantee the list of PSCI courses will be available in any given year.

<u>STATEMENT OF SUPPORT FROM SISTER UNIT</u>

RE: Critical Race Studies Minor

[X] I support this change unconditionally.

[ ] I do not support this change.

[ ] I support this change, with the following reservations:

Signature:

Name: Anna Hoefnagels

Title: Professor and Director

Academic unit: School of Indigenous and Canadian Studies

Date: 10 September 2020

Notes:

The School of Indigenous and Canadian Studies has committed in the 2020-21 academic year to review course offerings and calendar descriptions of the Canadian Studies program and to explore possibilities of augmenting Indigenous Studies program offerings. Collaboration with the Pauline Jewett institution of Women's and Gender Studies and other programs that likewise prioritize issues of systemic racism in Canada will be key to our work.

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Critical Race Studies Minor

[x] I support this change unconditionally.

[ ] I do not support this change.

[ ] I support this change, with the following reservations:

Signature:

Name: Blair Rutherford

Title: Chair

Academic unit:

Sociology/Anthrop

ology

Date: 1 September

2020

Notes: Glad to support such an important program!

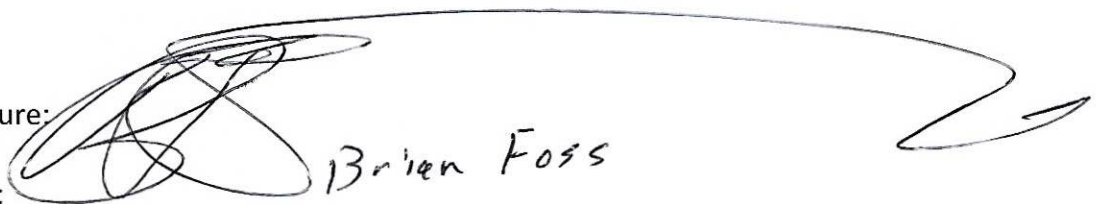## STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Critical Race Studies Minor

[✓] I support this change unconditionally.

[ ] I do not support this change.

[ ] I support this change, with the following reservations:

Signature:

Name: _Brian Foss_

Title: _Director_

Academic unit: _SSAC_

Date: _4/9/80_

Notes:

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Critical Race Studies Minor

[x] I support this change unconditionally.

[ ] I do not support this change.

[ ] I support this change, with the following reservations:

Signature:

Name: Christine Duff

Title: Director, Institute of African Studies

Academic unit:

Date: 9 September

2020

Notes:

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Critical Race Studies Minor

[x] I support this change unconditionally.

[ ] I do not support this change.

[ ] I support this change, with the following reservations:

Signature: *Sarah L Todd*

Name: Sarah Todd

Title: Director and Professor

Academic unit:

Social Work

 Date: August 19,

2020

Notes: This sounds like a timely and important minor. The School of Social Work is happy to support it.

<u>STATEMENT OF SUPPORT FROM SISTER UNIT</u>

RE: Critical Race Studies Minor

[X] I support this change unconditionally.

[ ] I do not support this change.

[ ] I support this change, with the following reservations:

Signature: *Allan Thompson*

Name: Allan Thompson

Title: Program Head, Journalism / Associate Director SJC

Academic unit:
School of
Journalism and
Communication

Date: Sept. 3, 2020
Notes:

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Critical Race Studies Minor

[X] I support this change unconditionally.

[ ] I do not support this change.

[ ] I support this change, with the following reservations:

Signature:

Name: Hashmat Khan

Title: Chair and Professor

Academic unit:

Economics

Date: August   15,

2020

Notes:

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Critical Race Studies Minor

[X] I support this change unconditionally.

[ ] I do not support this change.

[ ] I support this change, with the following reservations:

Signature:

Name: Shane Hawkins

Title: Director, COH

Academic unit: COH

Date: 14 Aug 2020

Notes: —

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Critical Race Studies Minor

[X] I support this change unconditionally.

[ ] I do not support this change.

[ ] I support this change, with the following reservations:

Signature:

Name: Annie Larivée

Title: Chair

Academic unit:

Philosophy

Date: Sept. 8 2020

Notes:

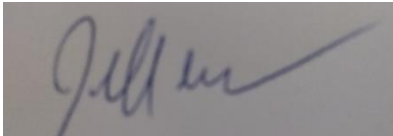<u>STATEMENT OF SUPPORT FROM SISTER UNIT</u>

RE: Critical Race Studies Minor

[x] I support this change unconditionally.

[ ] I do not support this change.

[ ] I support this change, with the following reservations:

Signature:

Name: Jeff Sahadeo

Title: Director

Academic unit:

EURUS

 Date: Sep 4/20

Notes:

MEMORANDUM

To: Senate Quality Assurance and Programs Committee (SQAPC)

From: Department of History

CC: Pauline Rankin, Dean, Faculty of Arts and Social Sciences
            Peter Thompson, Associate Dean (Academic), Faculty of Arts and Social Sciences

Date: October 14th, 2020

Subject: Major Modification to Concentration in Public History Track (A2)

Executive Summary

We propose to introduce a Concentration in Public History for our Honours B.A. program. "Public History" as a teaching field refers to students learning about the ways in which the past is created and presented in the public arena as history and being trained to produce and communicate historical knowledge in a variety of modes. This undergraduate concentration would join the M.A. in Public History Program (established in 2002) and the recently introduced PhD Concentration in Public History (established in 2020).

The undergraduate Concentration in Public History will be available only to students in the Honours program. It will also be feasible for students pursuing the existing Co-op option to take it. Students will take 2.0 credits of mandatory courses across the second, third, and fourth years of study, as well as 1.5 credits in approved History courses. Moving from an introductory course at second year to a fourth-year capstone seminar, students in the concentration will learn the specific scholarly and professional concepts associated with public history, the history of public history, and, most importantly, how to produce public history in both academic and non-academic settings. Both in workplace practica and classroom-based learning environments, experiential learning will be a consistent element throughout the Concentration.

Public History, as it has been taught and researched in the department since the early 2000s, is committed to community engagement, to shared interpretive authority, and to collaboration with a wide range of partners. Over time our existing work has earned a national and international reputation for excellence and innovation. Faculty and students publish and engage with academic communities globally, and also consult with publishers, museums, and government heritage agencies. This international dimension is one of the unique qualities of public history at Carleton compared to other Canadian universities. This reputation is reflected in the leadership roles Carleton faculty have filled in both the National Council of Public History in the United States and the International Federation of Public History. The department's commitment to both academic inquiry and innovation and to

collaborative partnerships with public and professional organizations make Carleton the single best place in Canada to teach, learn, and create public history.

The concentration is part of the department's efforts to increase the number of History Majors, improve retention and graduation rates, and to expand opportunities for the kinds of 'hands-on', experiential learning that students seek. It will contribute to achieving these aims by creating a new set of learning and training opportunities for students seeking a Humanities program with significant applied components. The Concentration in Public History courses will prioritize a set of skills that complement but are also distinct from those in the History program. These include communicating to non-academic audiences; digital and visual storytelling; project and events management; community engagement; and information and data management.

The concentration will harness existing strengths and connections at the departmental, university, and community levels.

The concentration builds upon the department's existing faculty research and teaching expertise that supports the internationally-recognized M.A. in Public History Program and the Carleton Centre for Public History (CCPH). Faculty have already introduced a number of undergraduate courses in Public History including HIST 2811 (Public History: From Memory to Museums), HIST 3001 (History at the Movies), HIST 3807 (Practicum), HIST 3809 (Historical Representations), HIST 3812 (Digital History), HIST 3814 (Crafting Digital History), and HIST 4916: Topic in Public History.[1] In bringing these existing courses together as a coherent program of course offerings, the concentration will make Public History an explicit option at the undergraduate level. An additional benefit of introducing a Public History program at the undergraduate level is that it will expand the opportunities for Public History graduate students to have teaching assistantships in their own fields and so enhance their own learning and training.

The concentration will also be able to draw on relevant resources in the wider university community. As a profession and as a field of study, public history is both inter- and multi-disciplinary. Carleton's unique strengths in heritage and memory studies across departments such as Indigenous and Canadian Studies and the School for Studies in Art and Culture will expand the range of learning opportunities for students in the concentration. They will be encouraged to fulfill some of the concentration requirements by taking approved courses in sister departments that will complement what they learn in their public history courses.

Beyond campus, the department, through the MA program and the CCPH, has forged a wide range of partnerships with local and locally situated federal organizations, and also with individual community members. These partnerships enable us to offer placements to students in our existing undergraduate practicum (HIST 3807) and summer internships to students in our M.A.in Public History Program. Collectively, many of these partners make up the CCPH's Public History Partnership Network (PHPN). Created more than a decade ago, and supported by both the Department and ODFASS annually, the PHPN has led to research partnerships for faculty and graduate students, and also opened up employment opportunities for alumni.

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[1] 3809 is being offered this year and, as a core required course, will be offered every year from now on. 3001 will be offered at least every second year from now on. We do not plan to offer every course in Requirement 7 every year.

Template #2—August 2018

The program structure will be as follows:

A. Credits Included in the Major CGPA (11.0 credits)

1. 5.0 credits in history including 0.5 credit in each of four of the five history fields below the 4000-level and satisfying:
a. 1.0 credits at the 1000-level
b. 1.0 credits at the 2000-level
c. 2.0 credits at the 3000-level
d. 1.0 credit at the 2000- or 3000-level

2. 0.5 credit in:
HIST 2809 [0.5] The Historian's Craft

3. 0.5 credit in:
HIST 2811 Public History: From Memory to Museums

4. 0.5 credit from:
HIST 3810 [0.5] Historical Theory
HIST 3820 [0.5] Explorations in Historical Theory

5. 0.5 credit in:
HIST 3809 Historical Representations

6. 0.5 credit in:
HIST 3807 Practicum or HIST 3815 Group Practicum

7. 1.5 credits from (with at least 1.0 credits at the 3000-level):
HIST 2812 Special Topics in Public History
HIST 3001 History at the Movies
HIST 3507 An Immigrant's Guide to Canada
HIST 3812 Digital History
HIST 3814 Crafting Digital History
HIST 3909 Special Topics in Public History
HIST 3807 Practicum
HIST 3815 Group Practicum
0.5 credits from approved electives may be counted towards this requirement.

8. 2.0 credits in 4000-level history seminars with at least 0.5 credits from:
HIST 4916 0.5 credit Topic in Public History
HIST 4920 1.0 credit Seminar in Public History

B. Credits Not Included in the Major CGPA (9.0 credits)

Template #2—August 2018

5. 8.0 credits in electives not in HIST8.0

6. 1.0 credits in free electives (may be HIST)
Total Credits 20.0

Impact on Other Programs

We expect that the new program will complement rather than compete with the BA in History and will both benefit from and contribute to related strengths in sister units at Carleton. Most of the course required for the Concentration are already on offer and are taught by permanent faculty. Much like the M.A. in Public History Program, the concentration is also an excellent fit with sister units and programs, given Carleton's strength in heritage studies, memory studies, and cultural studies more broadly. We anticipate some of our courses being attractive to students in those programs who will complement their learning while also enriching our courses. The relevant sister units are agreeable to their courses being part of the approved electives list.

Societal Need

The concentration responds to the societal demand that a university education should both enhance a students' intellectual abilities and prepare them for the varied career landscape of the modern economy. The kind of learning and training that students receive in public history prepares them to follow two pathways out of their undergraduate degree. The first is an academic pathway, in which students can continue their studies in a public history program, a more traditional history program, a professional program such as Information Management, Museum Studies, or Archival Studies, or in a related field such as Heritage Studies. The second is a career pathway. In addition to finding relevant work in the private and public heritage sectors, our experience has shown that the skills of a public historian are welcomed in a variety of workplaces, such as planning and design departments (both inside and outside government), research firms, the Public Service, education, and even community public health programs.

Student Demand

Student demand can be measured both quantitatively and anecdotally. Enrolment in current Public History courses has been consistent (2811, 3001, 3809, 3812, and 3814) over the last five years. The existing practicum course (3807) used to have 4-5 students / academic year, but that number doubled starting in Winter 2016 and continues to grow. The practicum is now offered year-round in response to student requests and partner needs. Anecdotally, departmental representatives at academic fairs and information sessions are frequently asked about learning experiences that are distinct and unique from other disciplinary programs and how they might connect to specific career paths. Students taking existing public history offerings often ask about where and how they can do more of this kind of study. This concentration will respond to the appetite for applied history while also clearly recognizing their achievements in this distinct field of study.

Resources

Faculty Resources: Much of the concentration will consist of public-history courses already offered as

Template #2—August 2018

part of our existing program. Full-time colleagues are committed to teaching the core course at 2000 and at 3000. Both these courses are already offered on a regular basis by full-time colleagues. Several colleagues teach courses at 3000 and 4000 that will meet the concentration's requirements at those levels. We envision full-time teaching being supplemented by 1.0 credit of Contract Instructor teaching each year. This would enable us to offer a 1.0 credit 4000-level seminar on Documentary Making in Canada. This course has been offered each year for the last decade, taught by film-maker Michael Ostroff. It is unique in Canada. As it is a longstanding course that we would hope to continue to offer, even if there were no Public History concentration, we do not consider this as an additional resource required by the concentration. Rather, it fits within an approach that, as much as possible, allows existing uses of resources to also be applied to the new purpose of offering the concentration.

Administrative Support: The current administrative structure of the department, along with faculty administrative time can support the Concentration. A full-time faculty member administers the M.A. in Public History Program as a coordinator, with 0.5 teaching release. The same colleague administers the year-round Undergraduate Practicum (HIST 3807) for teaching credit. Administrative and advising responsibilities for the Concentration will be added to those responsibilities. The undergraduate administrator will also provide advising support of the kind already provided to all our undergraduates.

Library Resources: No impact.

Space: The department can use its existing lounge, seminar room, exhibition space, and conference room to host partners and employers as needed. The Underhill Research Room is ideal for small group project work as it offers three digital workstations, a digital image machine, and a digital microfilm reader. Media Commons allows for even more sophisticated audio-visual work. No additional space is required.

Equipment: To be able to offer the necessary kinds of research capacities to our external partners (mostly in the group practicum course), we will need to refresh and potentially expand the number of oral recorders and DSLR cameras we have for use via the Carleton Centre for Public History (which makes all these available to any faculty, student, or community partner free of charge). The department also has two DSLR camera packages that are mostly used for our documentary-making seminar but are available for other projects too. A December 2019 experiential learning grant from the Office of the Associate Vice-President (Teaching and Learning) will be used in part for purchasing necessary additional equipment.

Concentration on Public History Learning Outcomes

At the end of the concentration students will be able to:
- Explain specific scholarly and professional concepts associated with public history
- Analyze the history of public history
- Produce public history in both academic and non-academic settings

New Program Proposal

Date Submitted: 09/15/20 3:33 pm

Viewing: **TBD-2021 : History with Concentration in Public History B.A. Honours**

Last edit: 12/09/20 4:15 pm

Last modified by: sarahcleary

Changes proposed by: annanderson

Approval Path

1. 09/15/20 3:52 pm
   James Miller
   (jamesmiller): Approved
   for HIST ChairDir UG
2. 11/26/20 2:37 pm
   Peter Thompson
   (peterthompson):
   Approved for AS Dean
3. 12/08/20 9:57 am
   Peter Thompson
   (peterthompson):
   Approved for AS FCC
4. 12/08/20 8:38 pm
   Peter Thompson
   (peterthompson):
   Approved for AS FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2021
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of History
Degree	Bachelor of Arts Honours
Title	History with Concentration in Public History B.A. Honours

Program Requirements

History with Concentration in Public History
B.A. Honours (20.0 credits)

A. Credits included in the Major CGPA (11.0 credits)

1. 5.0 credits in history including 0.5 credit in each of four of the five history fields below the 4000-level and satisfying:	**5.0**

a. 1.0 credit at the 1000-level

b. 1.0 credit at the 2000-level

c. 2.0 credit at the 3000-level

d. 1.0 credit at the 2000- or 3000-level

2. 0.5 credit in:		**0.5**
HIST 2809 [0.5]	**The Historian's Craft**	
3. 0.5 credit in:		**0.5**
HIST 2811 [0.5]	**Public History from Memory to Museums**	
4. 0.5 credit from:		**0.5**
HIST 3810 [0.5]	**Historical Theory**	
HIST 3820 [0.0]	**Explorations in Historical Theory**	
5. 0.5 credit in:		**0.5**
HIST 3809 [0.5]	**Historical Representations**	
6. 0.5 credit from:		**0.5**
HIST 3807 [0.5]	**Practicum in History**	
HIST 3815 [0.5]	**Group Practicum**	
7. 1.5 credits from (with at least 1.0 credits at the 3000-level):		**1.5**
HIST 2812 [0.5]	**Special Subject in Public History**	
HIST 3001 [0.5]	**History at the Movies**	
HIST 3507 [0.5]	**An Immigrant's Guide to Canada**	
HIST 3812 [0.5]	**Digital History**	
HIST 3814 [0.5]	**Crafting Digital History**	
HIST 3807 [0.5]	**Practicum in History (if not used toward Item 6, above)**	
HIST 3815 [0.5]	**Group Practicum (if not used toward Item 6, above)**	
HIST 3909 [0.5]	**Topic in Public History**	
0.5 credit from approved electives may be counted towards this requirement.		
8. 2.0 credits in 4000-level history seminars with at least 0.5 credits from:		**2.0**
HIST 4916 [0.5]	**Topic in Public History**	
HIST 4920 [1.0]	**Seminar in Public History**	

B. Credits Not Included in the Major CGPA (9.0 credits)

9. 8.0 credits in electives not in HIST	**8.0**
10. 1.0 credits in free electives (may be HIST)	**1.0**
Total Credits	20.0

New Resources	No New Resources
Summary	The new concentration will bring together mostly already existing courses into a coherent program in which students will engage in the academic study of public history and receive

practical training and experience in the kinds of work that public historians do. Classroom learning and workplace experience combine to offer the student a qualification that can be the pathway to further academic study or to a variety of careers in the private and public sectors.

Rationale	The purpose of the new program is to increase the number of History Majors, improve retention and graduation rates, and offer our students more hands-on, skills-based, career-oriented learning opportunities.
Transition/Implementation	Current students will be able to change from the regular BA to the concentration and apply any relevant courses already taken to it. Current students who have already taken some of the relevant courses will be informed of this. Academic advising by faculty and administrative staff will be available for new students considering the new program and existing students considering transferring into it. Otherwise there is no impact on current students.

Program reviewer comments

sarahcleary (12/09/20 4:15 pm): Added program header for title.

Key: 2021

Institutional Quality Assurance Process

Major Modifications Not Requiring a Library Report

Date: November 11, 2020

From: Alana Skwarok, Collections Librarian (Arts & Social Sciences)

To: Robyn Green, Program Officer, Faculty of Arts & Social Sciences

cc Amber Lannon, University Librarian
Laura Newton Miller, Head, Collections & Assessment
Sally Sax, Head, Electronic Resources & Acquisitions
Patti Harper, Head, Research Support Services

Recommendation

After review of Carleton University Library's information resources and services, no additional Library resources are required and so no report from the Library is necessary for the QA process for the following new program:

- o Concentration in Public History Track (A2)

This is a formal notification for your records.

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 07/24/20 2:17 pm

Viewing: BENG-8L1 : Mechanical Engineering with Concentration in Integrated Manufacturing Bachelor of Engineering

Last approved: 04/24/19 9:11 am

Last edit: 07/24/20 2:17 pm

Last modified by: irenehelder

Changes proposed by: irenehelder

In Workflow

1. **MAAE ChairDir UG**
2. **ENG Dean**
3. **ENG FCC**
4. **ENG FBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. PRE CalEditor
10. CalEditor

Approval Path

1. 08/23/20 11:14 am Ron Miller (ronmiller): Approved for MAAE ChairDir UG
2. 10/14/20 8:32 am Jerome Talim (jerometalim): Approved for ENG Dean
3. 11/04/20 9:09 am Jerome Talim (jerometalim): Approved for ENG FCC
4. 11/24/20 9:05 am Jerome Talim (jerometalim): Approved for ENG FBoard

History

1. Apr 25, 2014 by sandra
2. Jan 7, 2016 by Ron Miller (ronmiller)
3. Apr 11, 2018 by Donald Russell (donaldrussell)
4. Apr 24, 2019 by Irene Helder (irenehelder)

Calendar Pages Using this Program	Engineering
Effective Date	2021-22

Workflow	**majormod** ~~minormod~~
Program Code	BENG-8L1
Level	Undergraduate
Faculty	Faculty of Engineering and Design
Academic Unit	Department of Mechanical and Aerospace Engineering
Degree	Bachelor of Engineering
Title	Mechanical Engineering with Concentration in Integrated Manufacturing Bachelor of Engineering

Program Requirements

Mechanical Engineering with Concentration in Integrated Manufacturing Bachelor of Engineering (21.0 credits)

First year

1. a) 4.0 credits in: 4.0

CHEM 1101 [0.5]	Chemistry for Engineering Students
ECOR 1051 [0.5]	Fundamentals of Engineering I
ECOR 1052 [0.5]	Fundamentals of Engineering II
ECOR 1053 [0.5]	Fundamentals of Engineering III
ECOR 1054 [0.5]	Fundamentals of Engineering IV
MATH 1004 [0.5]	Calculus for Engineering or Physics
MATH 1104 [0.5]	Linear Algebra for Engineering or Science
PHYS 1004 [0.5]	Introductory Electromagnetism and Wave Motion

b) The Introduction to Engineering Disciplines requirement must be met through the successful completion of:

ECOR 1055 [0.0]	Introduction to Engineering Disciplines I
ECOR 1056 [0.0]	Introduction to Engineering Disciplines II

2. **0.5 credit in** Complementary Studies Electives   0.5

3. **0.5 credit in** Basic Science Electives   0.5

Second year

4. **5.0 credits in:**   5.0

ECOR 2050 [0.5]	Design and Analysis of Engineering Experiments
ELEC 3605 [0.5]	Electrical Engineering
MAAE 2001 [0.5]	Engineering Graphical Design
MAAE 2101 [0.5]	Engineering Dynamics
MAAE 2202 [0.5]	Mechanics of Solids I
MAAE 2300 [0.5]	Fluid Mechanics I
MAAE 2400 [0.5]	Thermodynamics and Heat Transfer
MAAE 2700 [0.5]	Engineering Materials
MATH 1005 [0.5]	Differential Equations and Infinite Series for Engineering or Physics
MATH 2004 [0.5]	Multivariable Calculus for Engineering or Physics

Third year

5. 5.5 credits in: 5.5

   CCDP 2100 [0.5]   Communication Skills for Engineering Students

   ECOR 3800 [0.5]   Engineering Economics

   MAAE 3004 [0.5]   Dynamics of Machinery

   MAAE 3202 [0.5]   Mechanics of Solids II

   MAAE 3300 [0.5]   Fluid Mechanics II

   MAAE 3400 [0.5]   Applied Thermodynamics

   MAAE 3500 [0.5]   Feedback Control Systems

   MATH 3705 [0.5]   Mathematical Methods I

   MECH 3002 [0.5]   Machine Design and Practice

   MECH 3700 [0.5]   Principles of Manufacturing

   SYSC 3600 [0.5]   Systems and Simulation

Fourth year

6. 3.5 credits in: 3.5

   ECOR 4995 [0.5]   Professional Practice

   MAAE 4102 [0.5]   Materials: Strength and Fracture

   MAAE 4907 [1.0]   Engineering Design Project

   MECH 4003 [0.5]   Mechanical Systems Design

   MECH 4406 [0.5]   Heat Transfer

   SYSC 3200 [0.5]   Industrial Engineering

7. 1.5 credits from: 1.5

   MECH 4501 [0.5]   State Space Modeling and Control

   MECH 4503 [0.5]   An Introduction to Robotics

   MECH 4604 [0.5]   Finite Element Methods

   MECH 4704 [0.5]   Integrated Manufacturing - CIMS

   MECH 4705 [0.5]   CAD/CAM

   MECH 4805 [0.5]   Measurement and Data Systems

   MECH 4806 [0.5]   Mechatronics

8. 0.5 credit in Complementary Studies Electives   0.5

Total Credits   21.0

New Resources

Summary	Deactivate BENG Mechanical Engineering with Concentration in Integrated Manufacturing
Rationale for change	This stream of Mechanical Engineering has seen a decline in enrollment over the last 5 - 10 years. We currently have 1 student in the program.
Transition/Implementation	We are no longer accepting any students into this program and those who are currently in the program will have access to the required courses to complete the program or the option to switch to the Mechanical Engineering program if they wish.

Program reviewer
comments

Key: 842

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 02/26/20 10:06 am

Viewing: **CERT-CASL : Certificate in American Sign Language (CASL)**

Last approved: 10/21/15 11:19 am

Last edit: 02/26/20 10:06 am

Last modified by: traceywright

Changes proposed by: traceywright

In Workflow

1. **LALS ChairDir UG**
2. **AS Dean**
3. **AS FCC**
4. **AS FBoard**
5. **PRE SCCASP**
6. **SCCASP**
7. SQAPC
8. Senate
9. PRE CalEditor
10. CalEditor

Approval Path

1. 02/26/20 10:57 am David Wood (davidwood): Approved for LALS ChairDir UG
2. 11/26/20 2:38 pm Peter Thompson (peterthompson): Approved for AS Dean
3. 12/08/20 9:55 am Peter Thompson (peterthompson): Approved for AS FCC
4. 12/08/20 8:38 pm Peter Thompson (peterthompson): Approved for AS FBoard
5. 12/09/20 4:21 pm Sarah Cleary (sarahcleary): Approved for PRE SCCASP

History

1. Feb 27, 2014 by sandra
2. Oct 21, 2015 by Sandra Bauer (sandrabauer)

Effective Date	2021-22
Workflow	**majormod** ~~minormod~~

Program Code	CERT-CASL
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	School of Linguistics and Language Studies
Degree	Cert: American Sign Language
Title	Certificate in American Sign Language (CASL)

Program Requirements

Certificate in American Sign Language (CASL) (5.0 credits)

The C.A.S.L. program is designed for anyone wishing to benefit from an officially-recognized capacity for communicating with members of the deaf community who use American Sign Language. The C.A.S.L. may be taken concurrently with a B.A. program in Linguistics or Applied Linguistics and Discourse Studies, or with other majors, or as a post-degree certificate.

Graduation
A candidate for the CASL must obtain a grade of C or higher in all courses taken at Carleton University under the C.A.S.L. program.

Requirements (5.0 credits)

1. **1.0 credit in:**   1.0

    LING 1001 [0.5]   Introduction to Linguistics I

    ALDS 1001 [0.5]   Language Matters: Introduction to ALDS

2. **4.0 credits in** ASLA   4.0

Total Credits   5.0

New Resources

Summary	Delete the Certificate in American Sign Language (C.A.S.L.)
Rationale for change	The CASL has been problematic to define and administer since its inception. It was created to allow non-degree students to obtain a certificate in ASL, however, it is difficult for post-grads to take the CASL, because it requires four years of study. To obtain the CASL, students take all four levels of ASL, as well ALDS 1001 and LING 1001. The introductory linguistics courses are not particularly relevant to the study of ASL. The CASL is not a professional certification of ability in ASL. There is very little difference between the CASL and the ASL Minor, and most students would opt to take both. We will continue to offer the Minor in ASL.
Transition/Implementation	The last admission to the CASL was in Fall 2018. Existing program registrants (potentially up to six students) should be allowed to finish their requirements under the rules for grandfathering.

Program reviewer
comments

Key: 819

New Course Proposal

Date Submitted: 11/04/20 1:39 pm

Viewing: **BUSI 3701 : Practicum in International Business**

Last edit: 11/16/20 11:49 am

Changes proposed by: sarahcleary

In Workflow

1. **BUSI ChairDir UG**
2. **BUS Dean**
3. **BUS FCC**
4. **BUS FBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. PRE CalEditor
10. Banner

Approval Path

1. 10/29/20 1:10 pm
   Howard Nemiroff
   (howardnemiroff):
   Approved for BUSI
   ChairDir UG
2. 10/29/20 1:11 pm
   Howard Nemiroff
   (howardnemiroff):
   Approved for BUS FCC
3. 10/29/20 1:11 pm
   Howard Nemiroff
   (howardnemiroff):
   Approved for BUS FBoard
4. 11/04/20 1:38 pm
   Sarah Cleary
   (sarahcleary): Rollback to
   Initiator
5. 11/04/20 1:40 pm
   Sarah Cleary
   (sarahcleary): Approved
   for BUSI ChairDir UG
6. 11/16/20 11:50 am
   Howard Nemiroff
   (howardnemiroff):
   Approved for BUS Dean
7. 11/26/20 9:50 am
   Howard Nemiroff
   (howardnemiroff):
   Approved for BUS FCC
8. 11/26/20 9:51 am
   Howard Nemiroff
   (howardnemiroff):
   Approved for BUS FBoard

Effective Date	2021-22
Workflow	majormod
New Resources	No New Resources
Level	Undergraduate
Course Code	BUSI
Course Number	3701
Title	Practicum in International Business
Title (short)	Practicum in Int. Business

Faculty	Sprott School of Business
Academic Unit	School of Business
Credit Value	0.50
Significant Experiential Learning	Internships
Course Description	Students will engage in an approved international experience, abroad or within Canada, that fosters the development of a global mindset. This experience will allow students to integrate and apply the material learned in previous International Business courses.
Prerequisite(s)	Third-year standing in BIB and permission of the Sprott School of Business.
Class Format	Experiential Learning Activity
Precluded Courses	Precludes BUSI 4719 and GINS 3930
Also listed as	
Piggybacked Courses	

Grade Mode	Satisfactory/Unsatisfactory
Schedule Type	Field Course Lecture *May constitute a major modification under Carleton's IQAP. Please consult https://carleton.ca/viceprovost/major-minor-modifications/ for more details.
Unpaid Placement	Yes
Summary	Following the introduction of internship opportunities becoming available for BIB students while they are abroad, this course will allow for a 12-week internship to count as a 0.5 credit degree fulfilment as part of their year abroad requirements.BIB students are now able to complete their year abroad in one of three ways; full two semesters of coursework at a partner institution; or, 1 semester at a partner institution accompanied with a minimum 12-week pre-approved international internship (BUSI 3701, 0.5 cr.); or, a minimum 24-week pre-approved international internship (BUSI 3702, 1.0 cr.).

Rationale for new course	New experiential learning opportunity for BIB students while abroad.
Course reviewer comments	**sarahcleary (11/04/20 1:38 pm):** Rollback: Rollback to change workflow from minor to major as per OVPAVPA. Will approve on behalf of BUSI ChairDir UG.

Key: 10177
Preview Bridge
Why Did This Not Sync?

Preview Bridge

New Course Proposal

Date Submitted: 11/04/20 1:40 pm

Viewing: **BUSI 3702 : Practicum in International Business**

Last edit: 11/16/20 11:50 am

Changes proposed by: sarahcleary

In Workflow

1. **BUSI ChairDir UG**
2. **BUS Dean**
3. **BUS FCC**
4. **BUS FBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. PRE CalEditor
10. Banner

Approval Path

1. 10/29/20 1:10 pm
   Howard Nemiroff
   (howardnemiroff):
   Approved for BUSI
   ChairDir UG
2. 10/29/20 1:11 pm
   Howard Nemiroff
   (howardnemiroff):
   Approved for BUS FCC
3. 10/29/20 1:11 pm
   Howard Nemiroff
   (howardnemiroff):
   Approved for BUS FBoard
4. 11/04/20 1:40 pm
   Sarah Cleary
   (sarahcleary): Rollback to
   Initiator
5. 11/04/20 1:41 pm
   Sarah Cleary
   (sarahcleary): Approved
   for BUSI ChairDir UG
6. 11/16/20 11:50 am
   Howard Nemiroff
   (howardnemiroff):
   Approved for BUS Dean
7. 11/26/20 9:50 am
   Howard Nemiroff
   (howardnemiroff):
   Approved for BUS FCC
8. 11/26/20 9:51 am
   Howard Nemiroff
   (howardnemiroff):
   Approved for BUS FBoard

Effective Date	2021-22
Workflow	majormod
New Resources	No New Resources
Level	Undergraduate
Course Code	BUSI
Course Number	3702
Title	Practicum in International Business
Title (short)	Practicum in Int. Business

Faculty	Sprott School of Business
Academic Unit	School of Business
Credit Value	1.0
Significant Experiential Learning	Internships
Course Description	Students will engage in an approved international experience, abroad or within Canada, that fosters the development of a global mindset. This experience will allow students to integrate and apply the material learned in previous International Business courses.
Prerequisite(s)	third-year standing in BIB and permission of the Sprott School of Business
Class Format	Experiential learning activity
Precluded Courses	Precludes BUSI 4719 and GINS 3931
Also listed as	
Piggybacked Courses	

Grade Mode	Satisfactory/Unsatisfactory
Schedule Type	Field Course Lecture
	*May constitute a major modification under Carleton's IQAP. Please consult https://carleton.ca/viceprovost/major-minor-modifications/ for more details.
Unpaid Placement	Yes
Summary	Following the introduction of internship opportunities becoming available for BIB students while they are abroad, this course will allow for a 24-week internship to count as a 0.5 credit degree fulfilment as part of their year abroad requirements.BIB students are now able to complete their year abroad in one of three ways; full two semesters of coursework at a partner institution; or, 1 semester at a partner institution accompanied with a minimum 12-week pre-approved international internship (BUSI 3701, 0.5 cr.); or, a minimum 24-week pre-approved international internship (BUSI 3702, 1.0 cr.).

Rationale for new course	New experiential learning opportunity for BIB students while abroad.
Course reviewer comments	**sarahcleary (11/04/20 1:40 pm):** Rollback: Rollback to change workflow from minor to major as per OVPAVPA. Will approve on behalf of BUSI ChairDir UG.

Key: 10178
Preview Bridge
Why Did This Not Sync?

Preview Bridge

A deleted record cannot be edited

Course Delete Proposal

Date Submitted: 10/07/20 9:52 am

Viewing: **IPAF 3900 : International Placement**

Last approved: 01/21/19 3:12 am

Last edit: 10/07/20 9:52 am

Changes proposed by: davidmendeloff

Calendar Pages referencing this course	Global Development (B.G.In.S. Specialization and Stream) Global and International Studies Global and International Studies (GINS) Interdisciplinary Public Affairs (IPAF)
Other Courses referencing this course	In the Precludes Credit Statement: GINS 3930 : Carleton International Placement

In Workflow

1. **FPA ChairDir UG**
2. **PA Dean**
3. **PA FCC**
4. **PA FBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. PRE CalEditor
10. Banner

Approval Path

1. 10/07/20 10:25 am David Mendeloff (davidmendeloff): Approved for FPA ChairDir UG
2. 10/07/20 10:28 am David Mendeloff (davidmendeloff): Approved for PA Dean
3. 10/07/20 10:30 am David Mendeloff (davidmendeloff): Approved for PA FCC
4. 11/26/20 2:46 pm David Mendeloff (davidmendeloff): Approved for PA FBoard

History

1. Feb 16, 2018 by Sandra Bauer (sandrabauer)
2. Jan 21, 2019 by Mike Labreque (mikelabreque)

Effective Date	2021-22
Workflow	**majormod** ~~minormod~~
Level	Undergraduate

Course Code	IPAF
Course Number	3900
Title	International Placement
Title (short)	International Placement
Faculty	Faculty of Public Affairs
Academic Unit	Public Affairs (Faculty of)
Credit Value	0.50
Significant Experiential Learning	Practica or Placements (including Clinical Placements)
Course Description	Placement for six weeks with a global and international focus. Graded SAT/UNS.
Prerequisite(s)	third-year standing.
Class Format	Optional international placement with hours to be negotiated with on-site placement supervisor. Required assignments and due dates will be set by the course instructor at Carleton University.
Precluded Courses	
Also listed as	
Piggybacked Courses	
Grade Mode	Satisfactory/Unsatisfactory
Schedule Type	*Field Placement
	*May constitute a major modification under Carleton's IQAP. Please consult https://carleton.ca/viceprovost/major-minor-modifications/ for more details.
Unpaid Placement	Yes
Summary	Deactivating IPAF 3900 as this course has been replaced by GINS 3930.
Rationale for deactivation	**This course (and the 1.0 credit IPAF 3901) were originally created as pilots to determine viability of an International Placement option for students outside of the BGInS program. The course was managed by Global and International Studies, even though it had an IPAF course code. Having proved successful, a new course code was created in GINS (GINS 3930) in the 2020-21 calendar. As students will now register in GINS 3930, IPAF 3900 should be deactivated.**
Course reviewer comments	

A deleted record cannot be edited

Course Delete Proposal

Date Submitted: 10/07/20 9:54 am

Viewing: **IPAF 3901 : International Placement**

Last approved: 01/21/19 3:19 am

Last edit: 10/07/20 9:54 am

Changes proposed by: davidmendeloff

Calendar Pages referencing this course	Global Development (B.G.In.S. Specialization and Stream) Global and International Studies Global and International Studies (GINS) Interdisciplinary Public Affairs (IPAF)
Other Courses referencing this course	In the Precludes Credit Statement: GINS 3931 : Carleton International Placement

In Workflow

1. **FPA ChairDir UG**
2. **PA Dean**
3. **PA FCC**
4. **PA FBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. PRE CalEditor
10. Banner

Approval Path

1. 10/07/20 10:25 am David Mendeloff (davidmendeloff): Approved for FPA ChairDir UG
2. 10/07/20 10:28 am David Mendeloff (davidmendeloff): Approved for PA Dean
3. 10/07/20 10:31 am David Mendeloff (davidmendeloff): Approved for PA FCC
4. 11/26/20 2:46 pm David Mendeloff (davidmendeloff): Approved for PA FBoard

History

1. Feb 16, 2018 by Sandra Bauer (sandrabauer)
2. Jan 21, 2019 by Mike Labreque (mikelabreque)

Effective Date	2021-22
Workflow	**majormod** ~~minormod~~
Level	Undergraduate

Course Code	IPAF
Course Number	3901
Title	International Placement
Title (short)	International Placement
Faculty	Faculty of Public Affairs
Academic Unit	Public Affairs (Faculty of)
Credit Value	1.0
Significant Experiential Learning	Practica or Placements (including Clinical Placements)
Course Description	Placement for twelve weeks with a global and international focus. Graded SAT/UNS.
Prerequisite(s)	third-year standing.
Class Format	Optional international placement with hours to be negotiated with on-site placement supervisor. Required assignments and due dates will be set by the course instructor at Carleton University.
Precluded Courses	
Also listed as	
Piggybacked Courses	
Grade Mode	Satisfactory/Unsatisfactory
Schedule Type	*Field Placement
	*May constitute a major modification under Carleton's IQAP. Please consult https://carleton.ca/viceprovost/major-minor-modifications/ for more details.
Unpaid Placement	Yes
Summary	Deactivating IPAF 3901 as this course has been replaced by GINS 3931.
Rationale for deactivation	**This course (and the 0.5 credit IPAF 3900) were originally created as pilots to determine viability of an International Placement option for students outside of the BGInS program. The course was managed by Global and International Studies, even though it had an IPAF course code. Having proved successful, a new course code was created in GINS (GINS 3931) in the 2020-21 calendar. As students will now register in GINS 3931, IPAF 3901 should be deactivated.**
Course reviewer comments	

Key: 9404
Preview Bridge
Why Did This Not Sync?

Preview Bridge

Date Submitted: 10/09/20 10:55 am

Viewing: **ANTH 4900 : Honours Research Paper in Anthropology**

Last approved: 01/21/19 3:12 am

Last edit: 10/09/20 10:56 am

Changes proposed by: sarahcleary

Calendar Pages referencing this course

Anthropology
Anthropology (ANTH)

Programs referencing this course

Anthropology B.A. Honours
Anthropology B.A. Combined Honours

In Workflow

1. **SOAN ChairDir UG**
2. **AS Dean**
3. **AS FCC**
4. **AS FBoard**
5. **PRE SCCASP**
6. **SCCASP**
7. SQAPC
8. Senate
9. PRE CalEditor
10. Banner

Approval Path

1. 08/11/20 4:53 pm
   Blair Rutherford
   (blairrutherford):
   Approved for SOAN
   ChairDir UG
2. 10/09/20 10:54 am
   Sarah Cleary
   (sarahcleary): Rollback to
   Initiator
3. 10/09/20 10:56 am
   Sarah Cleary
   (sarahcleary): Approved
   for SOAN ChairDir UG
4. 11/26/20 2:38 pm
   Peter Thompson
   (peterthompson):
   Approved for AS Dean
5. 12/08/20 9:53 am
   Peter Thompson
   (peterthompson):
   Approved for AS FCC
6. 12/08/20 8:43 pm
   Peter Thompson
   (peterthompson):
   Approved for AS FBoard
7. 12/09/20 4:23 pm
   Sarah Cleary
   (sarahcleary): Approved
   for PRE SCCASP

History

1. Jan 19, 2015 by
   marlenebrancato

2. Jan 21, 2019 by Mike
   Labreque (mikelabreque)

Effective Date	2021-22
Workflow	**majormod** ~~minormod~~
Level	Undergraduate
Course Code	ANTH
Course Number	4900
Title	Honours Research Paper in Anthropology
Title (short)	Hon. Res. Paper in Anthro.

Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of Sociology and Anthropology
Credit Value	1.0
Significant Experiential Learning	Applied Research Project
Course Description	**This course offers Honours students the opportunity to write an original research paper in their final year of study. Supported by the HRP supervisor, students develop their projects through seminar discussion addressing issues of research design, ethics, methodology, anthropological analysis, interpretation, and representation.** ~~Candidates with a GPA in ANTH of 9.0 or above, can present a researchessay.Students develop their essay proposal and HRP through seminardiscussion.Problems of style, sources, conceptualization, design, analysis and interpretation arediscussed.Students are strongly encouraged to take thiscourse.~~
Prerequisite(s)	fourth-year Honours standing.
Class Format	
Precluded Courses	
Also listed as	
Piggybacked Courses	

Grade Mode	Standard Letter Grade
Schedule Type	*Research Essay
	*May constitute a major modification under Carleton's IQAP. Please consult https://carleton.ca/viceprovost/major-minor-modifications/ for more details.
Unpaid Placement	No
Summary	Eliminate GPA requirement and change wording

Rationale for change	The elimination of the minimum GPA requirement opens the Anthropology program's hallmark experiential learning opportunity to all Honours students. We recognize that a GPA collected over 4 or more years of study is not a reliable indicator of a student's ability to complete an HRP in their final year.
Course reviewer comments	**sarahcleary (10/09/20 10:54 am):** Rollback: Rollback to update to a major mod as per OVPAVPA. No action required on your part. **sarahcleary (10/09/20 10:56 am):** Approving on behalf of SOAN ChairDir UG.

Key: 183
Preview Bridge
Why Did This Not Sync?

Preview Bridge

New Course Proposal

Date Submitted: 10/09/20 10:53 am

Viewing: **ANTH 4100 : Ethnographic Field Course**

Last edit: 12/09/20 4:26 pm

Changes proposed by: sarahcleary

Programs referencing this course   [Minor in Community Engagement](#)

In Workflow

1. **SOAN ChairDir UG**
2. **AS Dean**
3. **AS FCC**
4. **AS FBoard**
5. **PRE SCCASP**
6. **SCCASP**
7. SQAPC
8. Senate
9. PRE CalEditor
10. Banner

Approval Path

1. 09/04/20 11:21 am Blair Rutherford (blairrutherford): Approved for SOAN ChairDir UG
2. 10/09/20 10:52 am Sarah Cleary (sarahcleary): Rollback to Initiator
3. 10/09/20 10:56 am Sarah Cleary (sarahcleary): Approved for SOAN ChairDir UG
4. 11/26/20 2:38 pm Peter Thompson (peterthompson): Approved for AS Dean
5. 12/08/20 9:53 am Peter Thompson (peterthompson): Approved for AS FCC
6. 12/08/20 8:43 pm Peter Thompson (peterthompson): Approved for AS FBoard
7. 12/09/20 4:26 pm Sarah Cleary (sarahcleary): Approved for PRE SCCASP

Effective Date   2021-22

Workflow   majormod

New Resources	No New Resources
Level	Undergraduate
Course Code	ANTH
Course Number	4100
Title	Ethnographic Field Course
Title (short)	Ethnographic Field Course
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of Sociology and Anthropology
Credit Value	0.50
Significant Experiential Learning	Field Experience
Course Description	In this class, we explore a significant issue in our communities, learning how ethnographic methods can add new perspectives to our own experience and help us appreciate the experience of others. Students learn-through-doing their own small ethnographic projects, peer-to-peer feedback, and reflective discussion.
Prerequisite(s)	fourth year standing or permission of the instructor.
Class Format	Seminar three hours per week.
Precluded Courses	
Also listed as	
Piggybacked Courses	
Grade Mode	Standard Letter Grade
Schedule Type	Field Course
	*May constitute a major modification under Carleton's IQAP. Please consult https://carleton.ca/viceprovost/major-minor-modifications/ for more details.
Unpaid Placement	No
Summary	New field course
Rationale for new course	In keeping with student demand for research experience and practice using ethnographic methods, as well as University-wide experiential learning initiatives, this course will provide hands-on ethnographic research training for advanced undergraduates with a focus on community engagement. It will build on the skills acquired in ANTH 3005, while running on a shorter time-frame and with a more collaborative learning model than the year-long, independent HRP (ANTH 4900, which it will not preclude). In addition, it will be an important ANTH option for students from all majors taking the proposed Minor in Community Engagement.
Course reviewer	**sarahcleary (10/09/20 10:52 am):** Rollback: Rollback to update to a major mod as per OVPAVPA.

comments

No action required on your part.
sarahcleary (10/09/20 10:56 am): Approving on behalf of SOAN ChairDir UG.
sarahcleary (12/09/20 4:26 pm): Editorial - prerequisite statement.

<div align="right">

Key: 10092
Preview Bridge
Why Did This Not Sync?

Preview Bridge

</div>

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 10/16/20 11:54 am

Viewing: **BCS-595 : Computer Science Mobile Computing Stream B.C.S. Honours**

Last approved: 03/26/20 9:01 am

Last edit: 10/16/20 11:54 am

Last modified by: edinastorfer

Changes proposed by: edinastorfer

In Workflow

1. **COMP ChairDir UG**
2. **SCI Dean**
3. **COMP FCC**
4. **COMP FBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. PRE CalEditor
10. CalEditor

Approval Path

1. 10/20/20 9:41 am Michel Barbeau (michelbarbeau): Approved for COMP ChairDir UG
2. 10/20/20 12:44 pm Julia Wallace (juliawallace): Approved for SCI Dean
3. 10/20/20 12:47 pm Michel Barbeau (michelbarbeau): Approved for COMP FCC
4. 10/20/20 1:02 pm Michel Barbeau (michelbarbeau): Approved for COMP FBoard

History

1. May 5, 2014 by sandra
2. Feb 6, 2017 by doughowe
3. Mar 26, 2020 by Sarah Cleary (sarahcleary)

Calendar Pages Using this Program

Computer Science

Effective Date   2021-22

Workflow	**majormod** ~~minormod~~
Program Code	BCS-595
Level	Undergraduate
Faculty	Faculty of Science
Academic Unit	School of Computer Science
Degree	Bachelor of Computer Science
Title	Computer Science Mobile Computing Stream B.C.S. Honours

Program Requirements

Computer Science
Mobile Computing Stream
B.C.S. Honours (20.0 credits)

A. Credits Included in the Major CGPA (9.5 credits)

1. 6.5 credits in: 6.5

COMP 1405 [0.5]   Introduction to Computer Science I
COMP 1406 [0.5]   Introduction to Computer Science II
COMP 1805 [0.5]   Discrete Structures I
COMP 2401 [0.5]   Introduction to Systems Programming
COMP 2402 [0.5]   Abstract Data Types and Algorithms
COMP 2404 [0.5]   Introduction to Software Engineering
COMP 2406 [0.5]   Fundamentals of Web Applications
COMP 2804 [0.5]   Discrete Structures II
COMP 3000 [0.5]   Operating Systems
COMP 3004 [0.5]   Object-Oriented Software Engineering
COMP 3005 [0.5]   Database Management Systems
COMP 3007 [0.5]   Programming Paradigms
COMP 3804 [0.5]   Design and Analysis of Algorithms I

2. 1.0 credit in: 1.0

COMP 1601 [0.5]   Introduction to Mobile Application Development
COMP 2601 [0.5]   Mobile Applications

3. 0.5 credit from   0.5

COMP 4601 [0.5]   Intelligent Web-based Information Systems
COMP 4602 [0.5]   Social Networking

4. 1.5 credits in: 1.5

COMP 4905 and 1.0 credit in COMP at the 4000-level, or

COMP 4906 and 0.5 credit in COMP at the 4000-level

B. Credits Not Included in the Major CGPA (10.5 credits)

5. 1.5 credits from: 1.5

MATH 1007 [0.5]	Elementary Calculus I	
MATH 1104 [0.5]	Linear Algebra for Engineering or Science	
0.5 credit in MATH at the 2000-level or above		

6. 0.5 credit in: 0.5

    STAT 2507 [0.5]   Introduction to Statistical Modeling I

7. 5.0 credits in Breadth Electives   5.0

8. 3.5 credits in free electives.   3.5

Total Credits   20.0

New Resources

Summary	Delete stream.
Rationale for change	The demand for this stream has been consistently low, for several years, and does not justify the allocation of teaching resources required to support it.
Transition/Implementation	Courses in stream will still be offered so students currently in stream will be able to complete it. COPE will be closed to stream. No new admission to stream.

Program reviewer
comments

Key: 782

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 10/16/20 12:02 pm

Viewing: **BCS-5J : Computer Science Network Computing Stream B.C.S. Honours**

Last approved: 03/26/20 9:01 am

Last edit: 10/16/20 12:02 pm

Last modified by: edinastorfer

Changes proposed by: edinastorfer

In Workflow

1. **COMP ChairDir UG**
2. **SCI Dean**
3. **COMP FCC**
4. **COMP FBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. PRE CalEditor
10. CalEditor

Approval Path

1. 10/20/20 9:40 am Michel Barbeau (michelbarbeau): Approved for COMP ChairDir UG
2. 10/20/20 12:44 pm Julia Wallace (juliawallace): Approved for SCI Dean
3. 10/20/20 12:47 pm Michel Barbeau (michelbarbeau): Approved for COMP FCC
4. 10/20/20 1:02 pm Michel Barbeau (michelbarbeau): Approved for COMP FBoard

History

1. May 5, 2014 by sandra
2. Feb 6, 2017 by doughowe
3. Mar 26, 2020 by Sarah Cleary (sarahcleary)

Calendar Pages Using this Program	[Computer Science](#)
Effective Date	2021-22

Workflow	**majormod** ~~minormod~~
Program Code	BCS-5J
Level	Undergraduate
Faculty	Faculty of Science
Academic Unit	School of Computer Science
Degree	Bachelor of Computer Science
Title	Computer Science Network Computing Stream B.C.S. Honours

Program Requirements

Computer Science
Network Computing Stream
B.C.S. Honours (20.0 credits)

A. Credits Included in the Major CGPA (9.0 credits)

1. **6.5 credits in:**   6.5

COMP 1405 [0.5]	Introduction to Computer Science I	
COMP 1406 [0.5]	Introduction to Computer Science II	
COMP 1805 [0.5]	Discrete Structures I	
COMP 2401 [0.5]	Introduction to Systems Programming	
COMP 2402 [0.5]	Abstract Data Types and Algorithms	
COMP 2404 [0.5]	Introduction to Software Engineering	
COMP 2406 [0.5]	Fundamentals of Web Applications	
COMP 2804 [0.5]	Discrete Structures II	
COMP 3000 [0.5]	Operating Systems	
COMP 3004 [0.5]	Object-Oriented Software Engineering	
COMP 3005 [0.5]	Database Management Systems	
COMP 3007 [0.5]	Programming Paradigms	
COMP 3804 [0.5]	Design and Analysis of Algorithms I	

2. **0.5 credit in:**   0.5

COMP 3203 [0.5]	Principles of Computer Networks

3. **2.0 credits from:**   2.0

a) COMP 4905 and 1.5 credit from the following list of 4000-level COMP courses, or

b) COMP 4906 and 1.0 credit from the following list of 4000-level COMP courses.

COMP 4000 [0.5]	Distributed Operating Systems
COMP 4001 [0.5]	Distributed Computing
COMP 4009 [0.5]	Programming for Clusters and Multi-Core Processors
COMP 4108 [0.5]	Computer Systems Security
COMP 4203 [0.5]	Wireless Networks and Security
COMP 4804 [0.5]	Design and Analysis of Algorithms II

B. Credits Not Included in the Major CGPA (11.0 credits)

4. **1.5 credits from:**   1.5

   MATH 1007 [0.5]   Elementary Calculus I

   MATH 1104 [0.5]   Linear Algebra for Engineering or Science

   0.5 credit in MATH at the 2000-level or above

5. **0.5 credit in:**   0.5

   STAT 2507 [0.5]   Introduction to Statistical Modeling I

6. **5.0 credits in** Breadth Electives   5.0

7. **4.0 credits in** free electives.   4.0

Total Credits   20.0

New Resources

Summary	Delete stream.
Rationale for change	The demand for this stream has been consistently low, for several years, and does not justify the allocation of teaching resources required to support it.
Transition/Implementation	Courses in stream will still be offered so students currently in stream will be able to complete it. COPE will be closed to stream. No new admission to stream.

Program reviewer
comments

Key: 780

New Course Proposal

Date Submitted: 10/09/20 11:18 am

Viewing: **STAT 4905 : Honours Project (Honours)**

Last edit: 10/09/20 11:19 am

Changes proposed by: sarahcleary

Programs referencing this course

Math and Stats Fast Track to M.Sc. (in UG Calendar)
Computational and Applied Mathematics and Statistics w Concentration B.Math. Honours
Statistics B.Math. Honours
Statistics with Concentration in Actuarial Science B.Math. Honours
Computer Science and Mathematics: Statistics and Computing
Economics and Statistics B.Math. Combined Honours

In Workflow

1. **MATH ChairDir UG**
2. **SCI Dean**
3. **SCI FCC**
4. **SCI FBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. PRE CalEditor
10. Banner

Approval Path

1. 05/15/20 4:10 pm
   Paul Mezo (paulmezo):
   Approved for MATH
   ChairDir UG
2. 05/21/20 3:09 pm
   Naomi Cappuccino
   (naomicappuccino):
   Approved for SCI FCC
3. 06/11/20 2:44 pm
   Naomi Cappuccino
   (naomicappuccino):
   Approved for SCI FBoard
4. 10/09/20 11:17 am
   Sarah Cleary
   (sarahcleary): Rollback to
   Initiator
5. 10/09/20 11:19 am
   Sarah Cleary
   (sarahcleary): Approved
   for MATH ChairDir UG
6. 10/19/20 11:04 am
   Julia Wallace
   (juliawallace): Approved
   for SCI Dean
7. 10/22/20 7:51 am
   Julia Wallace
   (juliawallace): Approved
   for SCI FCC
8. 10/22/20 7:54 am
   Julia Wallace
   (juliawallace): Approved
   for SCI FBoard

Effective Date   2021-22

Workflow	majormod
New Resources	No New Resources
Level	Undergraduate
Course Code	STAT
Course Number	4905
Title	Honours Project (Honours)
Title (short)	Honours Project (Honours)

Faculty	Faculty of Science
Academic Unit	School of Mathematics and Statistics
Credit Value	0.50
Significant Experiential Learning	Applied Research Project
Course Description	Consists of a written report on some approved topic or topics in the field of statistics, together with a short lecture on the report.
Prerequisite(s)	B.Math.(Honours) students only.
Class Format	
Precluded Courses	
Also listed as	
Piggybacked Courses	

Grade Mode	Standard Letter Grade
Schedule Type	*Honours Essay *May constitute a major modification under Carleton's IQAP. Please consult https://carleton.ca/viceprovost/major-minor-modifications/ for more details.
Unpaid Placement	No
Summary	New STAT designation to match MATH 4905
Rationale for new course	Although the majority of honours students are often in STAT programs, the honours project course is MATH 4905. This is also true when we give a directed studies course to one of our STAT students. STAT course designations would be helpful for STAT students seeking jobs in statistics.
Course reviewer comments	**sarahcleary (10/09/20 11:17 am):** Rollback: Rollback to update to a major mod as per OVPAVPA. No action required on your part. **sarahcleary (10/09/20 11:19 am):** Approving on behalf of MATH ChairDir UG.

MEMORANDUM

To: Senate Quality Assurance and Planning Committee

From: Patrick Coe & Hashmat Khan, Economics

CC: Andre Plourde & David Mendeloff (FPA); Patrice Smith & Jim Opp (FGPA)

Date: September 23, 2020

Subject: Major Modification to Joint (Ottawa/Carleton) PhD Program in Economics

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Program Description

This is a modification to an existing joint program in the light of comments received by external reviewers during a Quality Assurance review. The concept and the principal goals of the program remain as stated in Volume 1 of our Cyclical Program Review Workbook. That is:

The main objective of the Joint PhD program is to foster the development of theoretical and empirical skills to aid in the analysis of economic issues. Emphasis is placed on developing the skills necessary to undertake economic research. This objective is achieved through a combination of course work and research conducted as part of the writing of a PhD thesis. Through their course work, students assimilate economic theories and master the techniques of economic analysis. They use these theories and techniques to conduct in-depth research into their chosen thesis topics and develop expertise in these areas.

The external reviewers recommended two changes to our PhD curriculum:

"The first-year curriculum in the PhD at the top-10 Canadian Economic departments, excluding the program under consideration, is standard. All of them require their students to take year-long sequences in Microeconomics, Macroeconomics and Econometrics…….we feel it will be advantageous to the overall training of PhD students to implement the curriculum that is standard in economics"

"….there exists a trend towards a reducing field requirements, including the elimination of field exams, and the introduction of research objectives, usually in the form of a second-year research paper that provides the student with an early opportunity to apply the tools developed over the first year……this committee recommends considering replacing the field exam with a second-year paper requirement."

In our Unit Response both departments (Carleton and Ottawa) indicated that they agree with these recommendations and committed to working together to bring forward the appropriate calendar changes. After further discussions, the departments agreed that we would introduce a second core course in each of Microeconomics and Macroeconomics. However, it was

decided that rather than replace the current course in Mathematical Foundations with a second Econometrics course the course in Mathematical Foundations would remain. While, this is not part of the Calendar entry, students will be strongly encouraged to take ECON 6714 Advanced Topics in Econometrics as one of their four electives in the second year.

In addition, discussions between the two department also led to an agreement to drop the theory comprehensive exams. Previously students had to pass these within 12 months of entering the program. This is replaced with the requirement that students must pass the six core courses within 12 months of entering the program (with supplemental exams offered in the Summer should a student fail a course in Fall or Winter). This also frees the students to start work on the research part of their degree. Over the summer they will attend workshops in which OCGSE/visiting faculty and senior PhD students present their work. They will also attend workshops in research tools and methods in economics. Both of these activities will be part of the second-year paper course.

These calendar changes and their rationale are outlined in the attached document. Below is a summary of the program structure implied by these changes.

Year 1:
Fall Semester: Mathematical Foundations for Economic Theory and first required course in each of Microeconomic and Macroeconomic Theory.
Winter Semester: Second required course in each of Microeconomic and Macroeconomic Theory and Econometrics.
Summer Semester: Register in 2nd year paper course (students to attend research workshops and workshops in research tools in May & June). If necessary, write supplemental exams for any courses failed in Fall/Winter in August.

Year 2:
Four graduate electives in economics, of which at least two must be in the student's primary field.
Required second year research paper.

Year 3:
The expectation is that students will successfully complete their first workshop in year 3.

Year 4:
The expectation is that students will successfully complete their second workshop and register in the thesis in year 4.

Year 5:
The expectation is that students will successfully defend their thesis in year 5.

Impact on Other Programs

None.

Societal Need (***Only applicable if introducing an A1 modification or a new concentration***)

N/A – this is an A2 modification.

Student Demand

Discussions with current PhD students indicate that they are supportive of these modifications. In particular students who have finished our current first year sequence have indicated that they felt a second course in each of Microeconomics, Macroeconomics and Econometrics would have improved their preparation both for the research stage of the program. Students are excited by the prospect of a second-year paper which would move the start of the research stage the program forward one year. Many of our current second years have asked if we can implement this early!

Resources

These proposed changes move our first-year core from four single semester courses to six single semester courses and so there is an increase in teaching requirements from 2.0 to 3.0 credits. However, this increase will be shared by the two departments. The introduction of a second-year paper course adds an additional 0.5 teaching requirement for each department, and so the total increase in required resources from Carleton for these changes is 1.0 credits.

As indicated in our Unit Response, the Department of Economics at Carleton plans to reallocate existing resources towards the PhD program to meet this need. For example, with recent changes to our honours program leading to reduced demand for ECON 4020, 4021 and 4706 it is feasible that this 1.0 credit of teaching time could be found by consolidating offerings of these courses. Alternatively, with the elimination of field comprehensive exams it becomes less imperative to ensure that certain graduate electives are offered every year.

A summary of additional resources required by category:
- *Faculty resources*: none
- *Contract instructors*: none
- *Administrative support*: none
- *Library resources*: none
- *Space*: none
- *Equipment*: none
- *Graduate student funding*: none

Date Submitted: 09/30/19 10:40 am

Viewing: **PHD-41 : Ph.D. Economics**

Last approved: 06/01/17 10:23 am

Last edit: 10/08/20 10:29 am

Last modified by: sandrabauer

Changes proposed by: amandawright

In Workflow

1. **ECON ChairDir GR**
2. **PA Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 09/30/19 4:03 pm
   Hashmat Khan
   (hashmatkhan):
   Approved for ECON
   ChairDir GR
2. 10/21/19 11:55 am
   David Mendeloff
   (davidmendeloff):
   Approved for PA Dean
3. 10/22/19 12:18 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
4. 10/22/19 1:06 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
5. 11/15/19 10:47 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
6. 11/20/19 2:30 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard
7. 11/28/19 5:21 pm
   Sarah Cleary
   (sarahcleary): Approved
   for PRE SCCASP
8. 12/03/19 2:37 pm
   Erika Strathearn
   (erikastrathearn):
   Approved for SCCASP
9. 01/10/20 11:35 am
   Christina Noja

(christinanoja): Approved for SQAPC
10. 04/01/20 10:12 am Sarah Cleary (sarahcleary): Rollback to GRAD FBoard for Senate
11. 05/14/20 12:06 pm Sandra Bauer (sandrabauer): Rollback to GRAD FCC for GRAD FBoard
12. 09/29/20 3:54 pm Sandra Bauer (sandrabauer): Approved for GRAD FCC
13. 10/14/20 3:20 pm Sandra Bauer (sandrabauer): Approved for GRAD FBoard

History

1. May 3, 2017 by Sandra Bauer (sandrabauer)
2. May 10, 2017 by Sandra Bauer (sandrabauer)
3. Jun 1, 2017 by Sandra Bauer (sandrabauer)

Calendar Pages Using this Program	[Economics](#)
Effective Date	2021-22
Workflow	**majormod** ~~minormod~~
Program Code	PHD-41
Level	Graduate
Faculty	Faculty of Public Affairs
Academic Unit	Department of Economics
Degree	Doctor of Philosophy
Title	Ph.D. Economics

Program Requirements

Ph.D. ~~Economics (11.5 credits) Students are also required to do course work in two of eight fields of specialization leading to a field comprehensive examination and the writing of athesis.~~Economics (11.0 credits)

Notwithstanding additional course work that may be required by the admissions committee as a condition of entry, students admitted to the Ph.D. program are required to complete:

Requirements:

1. ~~4.5 credits in:~~ ~~4.5~~
1. **4.0 credits in:** **4.0**

ECON 6019 [0.5]	Mathematical Foundations for Economic Theory	
~~ECON 6020 [0.0]~~	~~Course ECON 6020 Not Found~~	
~~ECON 6021 [0.0]~~	~~Course ECON 6021 Not Found~~	
ECON 6027 [0.5]	Econometrics II	
~~ECON 6900 [0.0]~~	~~Course ECON 6900 Not Found~~	
~~ECON 6902 [0.0]~~	~~Course ECON 6902 Not Found~~	
~~ECON 6905 [0.0]~~	~~Course ECON 6905 Not Found~~	
~~ECON 6907 [0.0]~~	~~Course ECON 6907 Not Found~~	
~~ECON 6908 [0.0]~~	~~Course ECON 6908 Not Found~~	
ECON 6501 [0.0]	**PhD Microeconomic Theory I**	
ECON 6502 [0.0]	**PhD Microeconomic Theory II**	
ECON 6503 [0.0]	**PhD Macroeconomic Theory I**	
ECON 6504 [0.0]	**PhD Macroeconomics Theory II**	
ECON 6513 [0.0]	**Second Year Research Paper**	
ECON 6514 [0.0]	**Thesis Workshop I**	
ECON 6515 [0.0]	**Thesis Workshop II**	

2. **2.0 credits in** ECON electives 2.0
3. **5.0 credits in:** 5.0

ECON 6909 [5.0]	Ph.D. Thesis	

Total Credits 11.0

Students ~~To fulfill this requirement, students~~ must **pass** ~~pass, within twenty-four months of beginning full-time study, at least two of~~ the **six first year core** ~~three~~ courses **ECON 6019**, **ECON 6027**, **ECON 6501**, **ECON 6502**, **ECON 6503** and **ECON 6504** **within twelve months of beginning full time study. Should** ~~associated with each of two chosen fields as well as~~ a **student fail any of these courses they will be offered a supplemental exam** ~~comprehensive examination~~ in **August of their first year in each course that they failed.** ~~one of them (ECON 6905). The courses in the eight fields of specializationare:Econometrics Economic Development Economics of the Environment Industrial Organization International Economics Labour Economics Monetary Economics Public Economics Comprehensive ExaminationsTheory:Each student will register in ECON 6900 and ECON 6902 in order to write the comprehensive examinations in microeconomic theory and macroeconomictheory.Both of these examinations must be successfully completed within twelve months of beginning full-timestudy.~~ **Students who do not pass all of** ~~fail to meet this requirement will normally be withdrawn from~~ the **six core first year courses or their supplemental exams within twelve months of beginning full time study will normally be withdrawn from the** Ph.D. program.

Students must take 2.0 credits in ECON electives. Students will choose one primary field of specialization as listed below and must take at least 1.0 credit of their ECON electives in this primary field. Students wishing to take courses from outside those listed below as part of their 2.0 credits in ECON electives must first obtain permission from the department.

Econometrics

ECON 5712 [0.5]	Micro-Econometrics	
ECON 5713 [0.5]	Time-Series Econometrics	
ECON 6714 [0.5]	Advanced Topics in Econometrics	

Economic Development

ECON 5500 [0.5]   Development Economics I

ECON 5504 [0.5]   Development Economics II

ECON 5505 [0.5]   Selected Topics in Development Economics

Economics of the Environment

ECON 5803 [0.5]   Economics of Natural Resources

ECON 5804 [0.5]   Economics of the Environment

ECON 5805 [0.5]   Topics in Environmental and Resource Economics

Industrial Organization

ECON 5301 [0.5]   Industrial Organization I

ECON 5303 [0.5]   Industrial Organization II

ECON 5304 [0.5]   Topics in Industrial Organization

International Economics

ECON 5601 [0.5]   International Trade: Theory and Policy

ECON 5602 [0.5]   International Monetary Theory and Policy

ECON 5603 [0.5]   Topics in International Economics

Labour Economics

ECON 5361 [0.5]   Labour Economics I

ECON 5362 [0.5]   Labour Economics II

ECON 5363 [0.5]   Advanced Topics in Labour Economics

Monetary Economics

ECON 5606 [0.5]   Foundations of Monetary Economics

ECON 5607 [0.5]   Topics in Monetary Economics

ECON 5609 [0.5]   Explorations in Monetary Economics

Public Economics

ECON 5401 [0.5]   Public Economics: Expenditures

ECON 5402 [0.5]   Public Economics: Taxation

ECON 5403 [0.5]   Topics in the Theory of Public Economics

Second Year Paper

In the summer of their first year, students register in ECON 6513 Second Year Research Paper. ~~PrimaryField:Each student will register in ECON 6905 in order to write a comprehensive examination in his or her chosen primaryfield.This examination must be successfully completed within twenty-four months of beginning full-timestudy.~~ Students who **do not successfully complete ECON 6513 and 2.0 credits of Economics electives within 28 months of beginning full-time study** ~~fail to meet this requirement~~ will normally be withdrawn from the Ph.D. program.

~~**Although not compulsory, a candidate may be required by an examining committee to sit an oralexamination.Seminar Attendance Students who have completed the comprehensive examinations in microeconomic and macroeconomic theory will be required to attend a minimum of eight departmental seminars in economics during each academic year until they have submitted their thesis to the Faculty of Graduate and PostdoctoralAffairs.**~~**Thesis Requirements**

Doctoral students will write and defend a Ph.D. thesis. In preparing the thesis, the student is required to give two thesis workshops. In the first (**ECON 6514),** ~~ECON 6907),~~ a research proposal for the thesis will be presented for evaluation by at

least three faculty members. In the second (**ECON 6515),** ~~ECON 6908~~, a substantial portion of the research for the thesis will have been completed and will be **presented. The student's progress will be** ~~presented and~~ evaluated by at least three faculty members.

Guidelines for Completion of Ph.D. Degree

Full-time Ph.D. students are expected to complete their requirements within **five** ~~four~~ calendar years. Students who undertake the program by a combination of full-time and part-time study must complete their degree requirements within an elapsed period of **nine** ~~eight~~ calendar years, as set out in **the General Regulations section** ~~the General Regulationssection~~ of **the Graduate** ~~this~~ Calendar.

New Resources	**Faculty** ~~No New Resources~~
Summary	ECON 6020 replaced with ECON 6501 and ECON 6502. ECON 6021 replaced with ECON 6503 and ECON 6504. Seminar requirement removed. Comprehensive theory exams (ECON 6900 and ECON 6902) removed. Field comprehensive exam requirement ECON 6905 replaced with ECON 6513, a second year research paper. Thesis workshops changed from ECON 6907 and 6908 to ECON 6514 and 6515. Course weighting also changed from 1.0 credits total to 0.5 credits total (0.25 for each course). Delete Guidelines for Completion of Ph.D. Degree (obsolete)
Rationale for change	Course restructuring brings the first year sequence of our PhD program in-line with that of all other research intensive departments in Canada (and the United States). See executive summary for further details. With a second course in each of Microeconomics and Macroeconomics, material previously assessed only in comprehensive exams will now be taught and assessed in courses. As such, the theory comprehensive exams have very little little pedagogical value and so are being eliminated.The replacement of the field comprehensive exam with a second year paper reflects a recent trend in many Economics PhD programs. The intent is to get students active in research at the start of their second year, rather than having them wait until completing their field comprehensive exam in the Summer of their second year. The reduction in credits from 0.5 to 0.25 for each of the workshop courses reflect the fact much of the work of learning how to undertake research at the PhD level will now take place in the Second Year Paper course. The Seminar Attendance requirement has been removed. This has been previously organized through the 0.0 credit course ECON 6903. FGPA has long argued that requiring students to complete courses with zero credit prior to graduation is very difficult to enforce. With the introduction of the Second Year Paper course this requirement can now be incorporated into a course with 0.5 credits.
Transition/Implementation	The majority of changes will only impact the first year of study in the PhD program. As such, the greatest impact will be on future students will little effect on upper year students. Students entering their second year of study in 2021-2022 will have the option of completing a second year paper (per new regulations) or completing a comprehensive field exam (per current regulations).
Program reviewer comments	**jamesopp (10/22/19 3:20 pm):** revised Second Year Research Paper to bring calendar language in line with revised documentation (edits from D. Mendeloff and J.Opp ; email to Pat Coe 17 Oct

2019)

jamesopp (11/01/19 11:01 am): Minor revisions to correct numbering errors.

jamesopp (11/01/19 1:32 pm): Revised language related to thesis workshop ii in consultation with unit.

sarahcleary (11/28/19 9:40 am): Removed second header from 'Econometrics'.

sarahcleary (01/22/20 2:27 pm): Updated program requirements with new course codes. Removed ECON 6001-6006 and 6011-6015. Replaced with ECON 6501-6506 and 6511-6515.

sarahcleary (04/01/20 10:12 am): Rollback: Rolling back as per FGPA.

sandrabauer (04/24/20 5:28 pm): Adjust requirements to reflect recent updates.

sandrabauer (04/28/20 8:52 pm): Changed to 21-22.

sandrabauer (05/14/20 11:38 am): Updated program requirements and summary/rationale to reflect latest revisions.

sandrabauer (05/14/20 12:06 pm): Rollback: Accidentally moved to GFB, should be at FCC step.

sandrabauer (09/16/20 2:26 pm): Program requirements updated with new numbers

sandrabauer (09/29/20 3:53 pm): Revised rationale to refer to executive summary rather than appendix

Key: 904

Associated Minor Mods- PhD Economics

Code	Title	Status	Initiator	Received	Academic Unit (department)	Course Workflow (pathways)
ECON 6900	ECON 6900: Comprehensive Examination in Microeconomic Theory	Deleted	sandrabauer	10/14/2020	ECON	minormod
ECON 6902	ECON 6902: Comprehensive Examination in Macroeconomic Theory	Deleted	sandrabauer	10/14/2020	ECON	minormod
ECON 6905	ECON 6905: Comprehensive Examination in Primary Field	Deleted	sandrabauer	10/14/2020	ECON	minormod
ECON 6907	ECON 6907: Thesis Workshop I	Deleted	sandrabauer	10/14/2020	ECON	minormod
ECON 6908	ECON 6908: Thesis Workshop II	Deleted	sandrabauer	10/14/2020	ECON	minormod
ECON 6501	ECON 6501: PhD Microeconomic Theory I	Added	amandawright	10/14/2020	ECON	minormod
ECON 6502	ECON 6502: PhD Microeconomic Theory II	Added	amandawright	10/14/2020	ECON	minormod
ECON 6503	ECON 6503: PhD Macroeconomic Theory I	Added	amandawright	10/14/2020	ECON	minormod
ECON 6504	ECON 6504: PhD Macroeconomics Theory II	Added	amandawright	10/14/2020	ECON	minormod
ECON 6513	ECON 6513: Second Year Research Paper	Added	amandawright	10/14/2020	ECON	minormod
ECON 6514	ECON 6514: Thesis Workshop I	Added	amandawright	10/14/2020	ECON	minormod
ECON 6515	ECON 6515: Thesis Workshop II	Added	sandrabauer	10/14/2020	ECON	minormod

MEMORANDUM

To: Vice-President's Academic and Research Committee (VPARC)

From: Michael Windover, Assistant Director: Art History
             School for Studies in Art and Culture

CC: Pauline Rankin, Dean
             Faculty of Arts and Social Sciences

             Peter Thompson, Associate Dean
             Faculty of Arts and Social Sciences

             Patrice Smith, Dean
             Faculty of Graduate and Postdoctoral Affairs

             James Opp, Associate Dean
             Faculty of Graduate and Postdoctoral Affairs

Date: June 11, 2020

Subject: **Major Modification to MA in Art History, Track A1**

__Modification Description__

Within the School for Studies in Art and Culture in FASS, there are three subunits (Music, Film Studies, Art History), which administer their programs. In Art History, we have two undergraduate programs, Art History and History and Theory of Architecture (HTA), and one graduate program, the MA in Art History. We would like to change the name of our MA program from "MA in Art History" to "MA in Art and Architectural History" in order to reflect the fact that each year some of our MA students (typically about a quarter of our students) pursue topics in architectural history and that we have faculty strength in this area. The growth in interest in History of Architecture courses, MRPs, and theses at the MA level corresponds with the expansion in faculty resources dedicated to the HTA program (3 faculty members hired to teach HTA since 2010 out of 12 full-time faculty in Art History). The investment in HTA at the undergrad level has also resulted in more students entering the MA program in Art History from that program. Being able to point to expertise in Art and Architecture History will help to set our MA program apart from other MA in Art History programs across Canada and, as a result, could help in future recruitment.

__Impact on Other Programs__

This name change will have no impact on other programs and/or other academic units at Carleton. The name change is supported by the Azrieli School of Architecture and Urbanism. See the attached letter from its director.

Impact on Learning Outcomes and Curriculum Map

This name change will have no impact on learning outcomes and curricular map.

Societal Need

This name change does not affect the societal need for the MA in Art History.

Student Demand

As noted above, the name change may increase student demand for the MA, but we certainly have the resources to handle such an increase.

Resources

This name change will have no impact on resources.

At the end of their program of study in the MA in Art and Architectural History, students will be able to:

1. Manifest a high level of fluency in the historiography and methodologies of Art and Architectural History, as well as sub-specializations
2. Apply, appraise and critique current theoretical models that span disciplines
3. Conceptualize, design and undertake advanced research projects
4. Conduct independent primary and secondary research including archival and material culture research and advanced secondary research
5. Articulate appropriate research questions and formulate effective solutions
6. Communicate orally and in writing complex concepts clearly and effectively to both academic audiences and the public at large
7. Guide the pedagogical development of undergraduate students, facilitate discussion sections and/or evaluate undergraduate written work.
8. Exhibit a high degree of personal responsibility, ethical behaviour and intellectual independence: skills that are transferable to various areas of employment including at cultural organizations, governmental agencies, and research centres
9. Demonstrate engagement with, and insight into, real-world learning about art, architecture, museums, cultures
10. Display behaviours consistent with academic integrity and independent scholarly pursuit.

Date Submitted: 09/02/20 1:39 pm

Viewing: **MA-10 : M.A. Art and Architectural History**

Last approved: 10/23/17 4:45 pm

Last edit: 09/02/20 1:39 pm

Last modified by: kristinguth

Changes proposed by: kristinguth

In Workflow

1. **ARTC ChairDir GR**
2. **AS Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. **SCCASP**
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 09/01/20 3:21 pm
   Brian Foss (brianfoss):
   Approved for ARTC
   ChairDir GR
2. 09/02/20 1:29 pm
   Peter Thompson
   (peterthompson):
   Rollback to Initiator
3. 09/02/20 2:31 pm
   Brian Foss (brianfoss):
   Approved for ARTC
   ChairDir GR
4. 09/17/20 9:24 pm
   Peter Thompson
   (peterthompson):
   Approved for AS Dean
5. 09/29/20 3:22 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
6. 09/29/20 3:33 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
7. 09/29/20 3:35 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
8. 10/14/20 2:50 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard
9. 12/09/20 4:31 pm
   Sarah Cleary

(sarahcleary): Approved
for PRE SCCASP

History

1. May 28, 2014 by sandra
2. Nov 14, 2014 by sandra
3. Apr 28, 2017 by Sandra
   Bauer (sandrabauer)
4. Apr 28, 2017 by Sandra
   Bauer (sandrabauer)
5. Oct 23, 2017 by Sandra
   Bauer (sandrabauer)

Calendar Pages Using this Program	**Art History**

Effective Date	2021-22
Workflow	**majormod** ~~minormod~~
Program Code	MA-10
Level	Graduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	School for Studies in Art and Culture
Degree	Master of Arts
Title	M.A. Art **and Architectural** History

Program Requirements

Program Requirements

Students in the M.A. in Art **and Architectural** History must select one of the following streams:

M.A. **Art and Architectural** History (4.0 credits)

Requirements - Coursework stream (4.0 credits):

1. **1.0 credit in:**   1.0
   ARTH 5010 [1.0]   Art and Its Institutions
2. **3.0 credits in** Art and Architectural History, of which 1.0 credit must be selected from: 3.0
   ARTH 5112 [0.5]   Topics in Historiography, Methodology and Criticism
   ARTH 5113 [0.5]   Perspectives on Pre-Modernity
   ARTH 5114 [0.5]   Feminism and Gender

ARTH 5115 [0.5]	Topics in Modern and Contemporary Art	
ARTH 5117 [0.5]	Community/Identity	
ARTH 5210 [0.5]	Topics in Indigenous Art	
ARTH 5218 [0.5]	Museum Studies and Curatorial Practice	
ARTH 5403 [0.5]	Architecture and Its Institutions	
ARTH 5500 [0.5]	Photography and Its Institutions	

Students are normally required to take 0.5 credit in another Art and Architectural History course and 1.0 credit as a practicum. The remaining 0.5 credit may be taken in Art and Architectural History, or in special cases where the student's program of study justifies it, alternative courses may be selected with the approval of the Graduate Supervisor. Out of the 3.0 credits taken, at least 0.5 must be in an area outside that of the student's research paper specialization.

3. 0.0 credit in: 0.0

ARTH 5800 [0.0]   Carleton Art Forum

4. Language Requirement:

Students are required to demonstrate a reading knowledge of French (or another language to be approved by the Art and Architectural History graduate supervisor).

Total Credits   4.0

Requirements - Research Essay stream (4.0 credits):

1. 1.0 credit in: 1.0

ARTH 5010 [1.0]   Art and Its Institutions

2. 2.0 credits in Art and Architectural History, of which 0.5 credit must be selected from: 2.0

ARTH 5112 [0.5]	Topics in Historiography, Methodology and Criticism
ARTH 5113 [0.5]	Perspectives on Pre-Modernity
ARTH 5114 [0.5]	Feminism and Gender
ARTH 5115 [0.5]	Topics in Modern and Contemporary Art
ARTH 5117 [0.5]	Community/Identity
ARTH 5210 [0.5]	Topics in Indigenous Art
ARTH 5218 [0.5]	Museum Studies and Curatorial Practice
ARTH 5403 [0.5]	Architecture and Its Institutions
ARTH 5500 [0.5]	Photography and Its Institutions

Students are normally required to take 1.0 credit as a practicum. The remaining 0.5 credit may be taken in Art and Architectural History or, in special cases where the student's program of study justifies it, alternative courses may be selected with the approval of the Graduate Supervisor. Out of the 2.0 credits taken, at least 0.5 must be in an area outside that of the student's research paper specialization.

3. 1.0 credit in: 1.0

ARTH 5908 [1.0]   Research Essay

4. 0.0 credit in: 0.0

ARTH 5800 [0.0]   Carleton Art Forum

5. Language Requirement:

Students are required to demonstrate a reading knowledge of French (or another language to be approved by the Art and Architectural History graduate supervisor).

Total Credits   4.0

Requirements - Thesis stream (4.0 credits)

1. 1.0 credit in: 1.0

ARTH 5010 [1.0]   Art and Its Institutions

2. 1.5 credits in Art and Architectural History, of which 0.5 credit must be selected from: 1.5

ARTH 5112 [0.5]	Topics in Historiography, Methodology and Criticism
ARTH 5113 [0.5]	Perspectives on Pre-Modernity

ARTH 5114 [0.5]	Feminism and Gender	
ARTH 5115 [0.5]	Topics in Modern and Contemporary Art	
ARTH 5117 [0.5]	Community/Identity	
ARTH 5210 [0.5]	Topics in Indigenous Art	
ARTH 5218 [0.5]	Museum Studies and Curatorial Practice	
ARTH 5403 [0.5]	Architecture and Its Institutions	
ARTH 5500 [0.5]	Photography and Its Institutions	

Students are normally required to take 0.5 credit as a practicum. The remaining 0. 5 credit may be taken in Art and Architectural History or, in special cases where the student's program of study justifies it, alternative courses may be selected with the approval of the Graduate Supervisor. Out of the 1. 5 credits taken, at least 0.5 credit must be in an area outside that of the student's thesis specialization.

3. 1.5 credits in: 1.5

ARTH 5909 [1.5]   M. A. Thesis

4. 0.0 credit in: 0.0

ARTH 5800 [0.0]   Carleton Art Forum

5. Language Requirement:

Students are required to demonstrate a reading knowledge of French (or another language to be approved by the Art and Architectural History graduate supervisor).

Total Credits   4.0

Notes:

- A maximum of 1.0 credit may be selected from course offerings at the 4000-level in Art **and Architectural** History.
- To enter the thesis stream, students are required to notify the Graduate Supervisor of their intent at the beginning of their first term of study. The thesis (60-80 pages) is written under the supervision of a faculty member with both expertise and an interest in the student's topic. The Graduate Committee will determine whether a student is eligible to enter the thesis stream after one term of study in the case of full-time students and after two terms of study in the case of part-time students. For those students allowed into the thesis stream, the deadline for the submission of the thesis proposal to the Graduate Committee is normally no later than April 15 of the first year of study for students enrolled full-time, and no later than the middle of the fifth term of registration for students enrolled part-time.

New Resources	No New Resources
Summary	Major Modification: Change the name of the Program from "MA in Art History" to "MA in Art and Architectural History." ARTH will now stand for Art and Architectural History.
Rationale for change	This name change is to reflect the fact that some of our MA students at present pursue topics in architectural history and that we have faculty strength in this area. We also think it could help in future recruitment for our MA program.
Transition/Implementation	No impact.

Program reviewer comments	**peterthompson (09/02/20 1:29 pm):** Rollback: As requested.

Key: 867

Date Submitted: 09/24/20 2:36 pm

Viewing: **MA-10DH : M.A. Art and Architectural History with Specialization in Digital Humanities**

Last approved: 04/28/17 12:37 pm

Last edit: 09/24/20 2:36 pm

Last modified by: sandrabauer

Changes proposed by: sandrabauer

In Workflow

1. ARTC ChairDir GR
2. AS Dean
3. GRAD Dean
4. PRE GRAD FCC
5. GRAD FCC
6. GRAD FBoard
7. PRE SCCASP
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 09/24/20 2:55 pm
   Sandra Bauer
   (sandrabauer): Approved
   for ARTC ChairDir GR
2. 09/29/20 3:55 pm
   Sandra Bauer
   (sandrabauer): Approved
   for AS Dean
3. 09/29/20 3:57 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
4. 09/29/20 3:59 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
5. 09/29/20 4:00 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
6. 10/14/20 2:51 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard
7. 12/09/20 4:33 pm
   Sarah Cleary
   (sarahcleary): Approved
   for PRE SCCASP

History

1. May 28, 2014 by sandra

Calendar Pages Using this Program	Art History
	Digital Humanities

Effective Date	2021-22
Workflow	**majormod** ~~minormod~~
Program Code	MA-10DH
Level	Graduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	School for Studies in Art and Culture
Degree	Master of Arts
Title	M.A. Art **and Architectural** History with Specialization in Digital Humanities

Program Requirements

M.A. Art **and Architectural** History
with Specialization in Digital Humanities (4.5 credits)

Requirements:

1. **1.0 credit in:** 1.0

   ARTH 5010 [1.0]   Art and Its Institutions

2. **2.0 credits in** ARTH, including 1.5 credits from: 2.0

   ARTH 5112 [0.5]   Topics in Historiography, Methodology and Criticism
   ARTH 5113 [0.5]   Perspectives on Pre-Modernity
   ARTH 5114 [0.5]   Feminism and Gender
   ARTH 5115 [0.5]   Topics in Modern and Contemporary Art
   ARTH 5117 [0.5]   Community/Identity
   ARTH 5210 [0.5]   Topics in Indigenous Art
   ARTH 5218 [0.5]   Museum Studies and Curatorial Practice
   ARTH 5403 [0.5]   Architecture and Its Institutions
   ARTH 5500 [0.5]   Photography and Its Institutions
   and
   ARTH 5011 [0.5]   Graduate Practicum

3. **0.5 credit in:** 0.5

   ARTH 5011 [0.5]   Graduate Practicum (with a Digital Humanities focus)

4. **0.0 credit in:** 0.0

   ARTH 5800 [0.0]   Carleton Art Forum

4. **0.5 credit in:**   0.5

    DIGH 5000 [0.5]   Issues in the Digital Humanities

5. **0.5 credit in** Digital Humanities (DIGH 5011, DIGH 5012, or annually listed Digital Humanities course)   0.5

6. **0.0 credit in:**   0.0

    DIGH 5800 [0.0]   Digital Humanities: Professional Development

Total Credits   4.5

New Resources	No New Resources
Summary	Change the name of the Program from "MA in Art History with Specialization in Digital Humanities" to "MA in Art and Architectural History with Specialization in Digital Humanities." ARTH will now stand for Art and Architectural History.
Rationale for change	This name change is to reflect the fact that some of our MA students at present pursue topics in architectural history and that we have faculty strength in this area. We also think it could help in future recruitment for our MA program.
Transition/Implementation	N/A
Program reviewer comments	**sandrabauer (09/29/20 3:57 pm):** Approved on behalf of AS Dean - collateral to degree name change approved by P&P today

Key: 868

CARLETON UNIVERSITY
Canada's Capital University

▲ ● ■
Azrieli School of **Architecture & Urbanism**

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18 June 2020
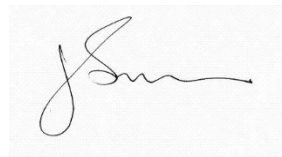
Letter of Support for Change of Names

I am writing as Director of the Azrieli School of Architecture & Urbanism, to express my support for these proposed changes to names within the Art History unit in the School for Studies in Art and Culture:

1) the change of major title from **Art History** to **Art and Architectural History** in Carleton's undergraduate calendar

2) the name change of the Master of Arts program from **"MA in Art History"** to **"MA in Art and Architectural History."**

We value our collegial and pedagogical relationship with the Art History. All of our undergraduate students take courses in the History and Theory of Architecture, and over the years we have built increasingly strong connections between our schools. This change of name will reinforce and make more visible this connection.

Sincerely,

Jill Stoner

Director & Professor

Date Submitted: 08/12/20 11:58 am

Viewing: **PHD-5 : Ph.D. Mathematics and Statistics**

Last approved: 05/07/17 6:19 pm

Last edit: 01/14/21 1:35 pm

Last modified by: sandrabauer

Changes proposed by: sandrabauer

In Workflow

1. **MATH ChairDir GR**
2. **SCI Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. **SCCASP**
9. **SQAPC**
10. **Senate**
11. CalEditor

Approval Path

1. 05/13/20 3:56 pm
   Nicki Gaertner
   (nickigaertner):
   Approved for MATH
   ChairDir GR
2. 07/09/20 4:29 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
3. 08/12/20 11:58 am
   Sandra Bauer
   (sandrabauer): Rollback
   to Initiator
4. 08/12/20 12:06 pm
   Nicki Gaertner
   (nickigaertner):
   Approved for MATH
   ChairDir GR
5. 08/13/20 11:51 am
   Sarah Cleary
   (sarahcleary): Rollback to
   MATH ChairDir GR for SCI
   Dean
6. 08/13/20 2:21 pm
   Paul Mezo (paulmezo):
   Approved for MATH
   ChairDir GR
7. 09/08/20 7:48 pm
   Chuck MacDonald
   (chuckmacdonald):
   Approved for SCI Dean
8. 09/09/20 12:20 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean

9. 09/09/20 12:23 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
10. 09/09/20 12:24 pm
    Sandra Bauer
    (sandrabauer): Approved
    for GRAD FCC
11. 09/23/20 10:51 am
    Sandra Bauer
    (sandrabauer): Approved
    for GRAD FBoard
12. 11/25/20 2:39 pm
    Sarah Cleary
    (sarahcleary): Approved
    for PRE SCCASP
13. 12/04/20 3:23 pm
    Erika Strathearn
    (erikastrathearn):
    Approved for SCCASP
14. 12/14/20 8:35 am
    Christina Noja
    (christinanoja): Approved
    for SQAPC
15. 01/13/21 10:36 am
    Sarah Cleary
    (sarahcleary): Rollback to
    SQAPC for Senate
16. 01/15/21 3:36 pm
    Christina Noja
    (christinanoja): Approved
    for SQAPC

History

1. Apr 6, 2016 by Sandra
   Bauer (sandrabauer)
2. May 7, 2017 by Sandra
   Bauer (sandrabauer)

Calendar Pages Using this Program	[Mathematics and Statistics](#)

Effective Date	2021-22
Workflow	**majormod** ~~minormod~~
Program Code	PHD-5
Level	Graduate
Faculty	Faculty of Science
Academic Unit	School of Mathematics and Statistics

Degree   Doctor of Philosophy

Title   Ph.D. Mathematics and Statistics

Program Requirements

Ph.D. Mathematics and Statistics (10.0 credits)

Requirements:

1. **3.0 credits in** courses   3.0
2. **7.0 credits from:**   7.0

  MATH 6909 [7.0]   Ph.D. Thesis (including a final oral examination on the thesis subject)

  STAT 6909 [0.0]   **Ph.D. Thesis (including a final oral examination on the thesis subject)**

3. All candidates must take comprehensive examinations. See note on Comprehensive Examinations below.

~~4. Language requirement. Determined by the candidate's advisory committee and normally requires the ability to read mathematical literature in a language considered useful for his/her research or career, and other than the candidate's principal language of study~~

Total Credits   10.0

New Resources   No New Resources

Summary   1)Remove language requirement.
                             2) Add STAT 6909 as Thesis course.

Rationale for change   1)The language requirement for the PhD in Mathematics has not been enforced for several years. All modern research is written in English, and all background material is available in English. The ability to read a classical research paper in another language does not contribute to the students progress in their degree program. 2)STAT course designations would be helpful for STAT students seeking jobs in statistics.

Transition/Implementation   n/a

Program reviewer comments

sandrabauer (08/12/20 11:58 am): Rollback: To re-submit as a major modification. Please expand on rationale, per email to P. Mezo
sarahcleary (08/13/20 11:51 am): Rollback: Roll back as per unit request.
sandrabauer (09/02/20 3:01 pm): STAT 6909 is Thesis (title not showing is due to CL technical difficulties)
sandrabauer (09/16/20 2:58 pm): Rationale updated per P&P
sarahcleary (01/13/21 10:36 am): Rollback: Rollback to SQAPC as per OVPAVPA's request.
sarahcleary (01/14/21 1:35 pm): Minor formatting required to include '(including a final oral examination on the thesis subject)' for STAT 6909.

Key: 973

Course Change Request

New Course Proposal

Date Submitted: 09/02/20 3:02 pm

Viewing: STAT 6909 : Ph.D. Thesis

Last edit: 09/08/20 1:57 pm

Changes proposed by: sandrabauer

Programs referencing this course	Ph.D. Mathematics and Statistics

In Workflow

1. **MATH ChairDir GR**
2. **SCI Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. **SCCASP**
9. SQAPC
10. Senate
11. Banner

Approval Path

1. 05/15/20 4:29 pm
   Paul Mezo (paulmezo):
   Approved for MATH
   ChairDir GR
2. 07/09/20 4:40 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
3. 09/02/20 11:10 am
   Sandra Bauer
   (sandrabauer): Rollback
   to Initiator
4. 09/02/20 3:06 pm
   Sandra Bauer
   (sandrabauer): Approved
   for MATH ChairDir GR
5. 09/02/20 3:06 pm
   Sandra Bauer
   (sandrabauer): Approved
   for SCI Dean
6. 09/08/20 2:30 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
7. 09/09/20 12:20 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
8. 09/09/20 12:25 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC

9. 09/23/20 10:52 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard
10. 10/09/20 3:05 pm
    Sarah Cleary
    (sarahcleary): Approved
    for PRE SCCASP

Effective Date	2021-22
Workflow	majormod
New Resources	No New Resources
Level	Graduate
Course Code	STAT
Course Number	6909
Title	Ph.D. Thesis
Title (short)	Ph.D. Thesis
Faculty	Faculty of Science
Academic Unit	School of Mathematics and Statistics
Credit Value	7.0
Significant Experiential Learning	Applied Research Project
Course Description	
Prerequisite(s)	
Class Format	
Precluded Courses	
Also listed as	
Piggybacked Courses	
U Ottawa Code	MAT 9999
Grade Mode	Standard Letter Grade
Schedule Type	*PhD Thesis

*May constitute a major modification under Carleton's IQAP. Please consult
https://carleton.ca/viceprovost/major-minor-modifications/ for more details.

Unpaid Placement	No
Summary	New designation for STAT to match MATH 6909
Rationale for new course	STAT course designations would be helpful for STAT students seeking jobs in statistics.
Course reviewer comments	**nickigaertner (05/15/20 5:13 pm):** Not sure what it is you are wanting me to do. **sandrabauer (09/02/20 11:10 am):** Rollback: The rationale provided pertains to undergraduate-level courses; please provide wording relevant to the graduate level courses and resubmit into workflow. Thanks. **sandrabauer (09/08/20 1:57 pm):** Removed "in Statistics" from title, per P&P request to keep Thesis titles consistent within the program

Key: 10009

Date Submitted: 09/01/20 11:34 am

Viewing: **TBD-1937 : Master of Public Policy and Administration with Specialization in Data Science**

Last approved: 02/24/20 2:05 pm

Last edit: 09/02/20 3:59 pm

Last modified by: sandrabauer

Changes proposed by: ashleydawnmckee

In Workflow

1. **PADM ChairDir GR**
2. **PA Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 09/01/20 4:11 pm
   Graeme Auld
   (graemeauld): Approved
   for PADM ChairDir GR
2. 09/01/20 4:24 pm
   David Mendeloff
   (davidmendeloff):
   Approved for PA Dean
3. 09/29/20 3:22 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
4. 09/29/20 3:38 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
5. 09/29/20 3:40 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
6. 10/14/20 2:53 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard

History

1. Feb 24, 2020 by
   lauragareau

Calendar Pages Using this Program

Public Policy and Administration

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-1937
Level	Graduate
Faculty	Faculty of Public Affairs
Academic Unit	School of Public Policy and Administration
Degree	
Title	Master of Public Policy and Administration with Specialization in Data Science

Program Requirements

Master of Public Policy and Administration with Specialization in Data Science (7.0 credits)

Requirements - Course work pathway:

1. **4.5 credits in** core courses: 4.5

PADM 5120 [0.5]	Modern Challenges to Governance
PADM 5121 [0.5]	Policy Analysis: The Practical Art of Change
PADM 5122 [0.5]	Public Management: Principles and Approaches
PADM 5123 [0.5]	Public Management in Practice
PADM 5124 [0.5]	Law and Ethics
PADM 5125 [0.5]	Qualitative Methods for Public Policy
PADM 5127 [0.5]	Microeconomics for Policy Analysis
PADM 5128 [0.5]	Macroeconomics for Policy Analysis
PADM 5129 [0.5]	Capstone Course

2. **1.5 credits in** data science core courses: 1.5

DATA 5000 [0.5]	Data Science Seminar
PADM 5126 [0.5]	Quantitative Methods for Public Policy
PADM 5218 [0.5]	Analysis of Socio-economic Data

3. **0.5 credit from** data science electives: 0.5

COMP 5111 [0.5]	Data Management for Business Intelligence
COMP 5209 [0.5]	Visual Analytics
COMP 5305 [0.5]	Advanced Database Systems
COMP 5306 [0.5]	Data Integration
~~PADM 5218 [0.5]~~	~~Analysis of Socio-economic Data~~
PADM 5219 [0.5]	Advanced Statistical Policy Analysis
PADM 5372 [0.5]	Policy Seminar (Data Science Specialization)
PADM 5391 [0.5]	Directed Studies (Data Science Specialization)

4. **0.5 credit in** approved elective   0.5

Total Credits   7.0

Requirements - Research essay pathway:

1. **4.5 credits in** core courses: 4.5

     PADM 5120 [0.5] Modern Challenges to Governance

     PADM 5121 [0.5] Policy Analysis: The Practical Art of Change

     PADM 5122 [0.5] Public Management: Principles and Approaches

     PADM 5123 [0.5] Public Management in Practice

     PADM 5124 [0.5] Law and Ethics

     PADM 5125 [0.5] Qualitative Methods for Public Policy

     PADM 5127 [0.5] Microeconomics for Policy Analysis

     PADM 5128 [0.5] Macroeconomics for Policy Analysis

     PADM 5129 [0.5] Capstone Course

2. **1.5 credits in** data science core courses: 1.5

     DATA 5000 [0.5]   Data Science Seminar

     PADM 5126 [0.5] Quantitative Methods for Public Policy

     PADM 5218 [0.5] Analysis of Socio-economic Data

3. **1.0 credit in:**   1.0

     PADM 5908 [1.0] Research Essay (on a Data Science topic approved by the MPPA Graduate Supervisor and the Data Science governance committee)

Total Credits   7.0

Master of Public Policy and Administration with Specialization in Data Science (Advanced completion, 5.0 credits)

Requirements - Course work pathway (Advanced completion, 5.0 credits - see Note, below):

1. **3.0 credits from core courses:**   **3.0**

     PADM 5120 [0.5]   **Modern Challenges to Governance**

     PADM 5121 [0.5]   **Policy Analysis: The Practical Art of Change**

     PADM 5122 [0.5]   **Public Management: Principles and Approaches**

     PADM 5123 [0.5]   **Public Management in Practice**

     PADM 5124 [0.5]   **Law and Ethics**

     PADM 5125 [0.5]   **Qualitative Methods for Public Policy**

     PADM 5127 [0.5]   **Microeconomics for Policy Analysis**

     PADM 5128 [0.5]   **Macroeconomics for Policy Analysis**

     PADM 5129 [0.5]   **Capstone Course**

2. **1.0 credit from data science core courses:**   **1.0**

     DATA 5000 [0.5]   **Data Science Seminar**

     PADM 5126 [0.5]   **Quantitative Methods for Public Policy**

     PADM 5218 [0.5]   **Analysis of Socio-economic Data**

3. **0.5 credit from data science electives:**   **0.5**

     COMP 5111 [0.5]   **Data Management for Business Intelligence**

     COMP 5209 [0.5]   **Visual Analytics**

     COMP 5305 [0.5]   **Advanced Database Systems**

     COMP 5306 [0.5]   **Data Integration**

     PADM 5219 [0.5]   **Advanced Statistical Policy Analysis**

     PADM 5372 [0.5]   **Policy Seminar (Data Science Specialization)**

     PADM 5391 [0.5]   **Directed Studies (Data Science Specialization)**

4. 0.5 credit in approved elective   **0.5**

Note: additional credits may be required, as specified on offer of admission.

Total Credits   5.0

Requirements - Research essay pathway (Advanced completion, 5.0 credits - See Note, below):

1. 3.0 credits from core courses: **3.0**

     PADM 5120 [0.5] **Modern Challenges to Governance**

     PADM 5121 [0.5] **Policy Analysis: The Practical Art of Change**

     PADM 5122 [0.5] **Public Management: Principles and Approaches**

     PADM 5123 [0.5] **Public Management in Practice**

     PADM 5124 [0.5] **Law and Ethics**

     PADM 5125 [0.5] **Qualitative Methods for Public Policy**

     PADM 5127 [0.5] **Microeconomics for Policy Analysis**

     PADM 5128 [0.5] **Macroeconomics for Policy Analysis**

     PADM 5129 [0.5] **Capstone Course**

2. 1.0 credit from data science core courses: **1.0**

     DATA 5000 [0.5]   **Data Science Seminar**

     PADM 5126 [0.5] **Quantitative Methods for Public Policy**

     PADM 5218 [0.5] **Analysis of Socio-economic Data**

3. 1.0 credit in: **1.0**

     PADM 5908 [1.0] **Research Essay (on a Data Science topic approved by the MPPA Graduate Supervisor and the Data Science governance committee)**

Note: additional credits may be required, as specified on offer of admission

Total Credits   5.0

New Resources	No New Resources
Summary	Master of Public Policy and Administration with Specialization in Data Science (7.0 credits) 1. PADM 5218 was removed from electives Master of Public Policy and Administration with Specialization in Data Science (Advanced completion, 5.0 credits) 1. Program added Master of Public Policy and Administration with Specialization in Data Science (Advanced completion, Research Essay Pathway, 5.0 credits) 1. Research Essay Pathway program added
Rationale for change	All MPPA students may receive up to 2.0 credits in advance completion credits through the advance completion option in the graduate calendar. This option needs to be available to MPPA students in the Data Science Specialization. Language for this option needs to be added to the graduate calendar.
Transition/Implementation	There is currently a process in place for MPPA students regarding advance completion credits. Students in the Data Science Specialization will be managed through the same process. With the addition of the language to the Graduate Calendar, Graduate Studies can manage this option for the Data Science Students.
Program reviewer	**sandrabauer (09/02/20 3:59 pm):** Changed year to 21-22

Date Submitted: 08/28/20 9:37 am

Viewing: **TBD-1391 : Master of Public Policy and Administration with Concentration in Indigenous Policy and Administration**

Last approved: 01/04/18 1:27 pm

Last edit: 11/11/20 10:52 am

Last modified by: sandrabauer

Changes proposed by: ashleydawnmckee

In Workflow

1. **PADM ChairDir GR**
2. **PA Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 08/28/20 12:04 pm Graeme Auld (graemeauld): Approved for PADM ChairDir GR
2. 08/31/20 4:08 pm David Mendeloff (davidmendeloff): Approved for PA Dean
3. 09/08/20 2:31 pm Sandra Bauer (sandrabauer): Approved for GRAD Dean
4. 09/08/20 2:32 pm Sandra Bauer (sandrabauer): Rollback to GRAD Dean for PRE GRAD FCC
5. 09/29/20 3:22 pm Sandra Bauer (sandrabauer): Approved for GRAD Dean
6. 09/29/20 3:38 pm Sandra Bauer (sandrabauer): Approved for PRE GRAD FCC
7. 09/29/20 3:40 pm Sandra Bauer (sandrabauer): Approved for GRAD FCC
8. 10/14/20 2:53 pm Sandra Bauer (sandrabauer): Approved for GRAD FBoard
9. 10/27/20 9:52 am Sarah Cleary

(sarahcleary): Rollback to GRAD FBoard for PRE SCCASP

10. 11/17/20 1:48 pm Sandra Bauer (sandrabauer): Approved for GRAD FBoard

History

1. Feb 3, 2016 by Sandra Bauer (sandrabauer)
2. Mar 29, 2016 by Calum Carmichael (calumcarmichael)
3. May 8, 2017 by Sandra Bauer (sandrabauer)
4. May 8, 2017 by Sandra Bauer (sandrabauer)
5. Jan 4, 2018 by Sandra Bauer (sandrabauer)

Calendar Pages Using this Program	Indigenous Policy and Administration Public Policy and Administration

Effective Date	2021-22
Workflow	**majormod** ~~minormod~~
Program Code	TBD-1391
Level	Graduate
Faculty	Faculty of Public Affairs
Academic Unit	School of Public Policy and Administration
Degree	
Title	Master of Public Policy and Administration with Concentration in Indigenous Policy and Administration

Program Requirements

Master of Public Policy and Administration with Concentration in Indigenous Policy and Administration (7.0 credits)

To complete the M.P.P.A. program with a concentration in Indigenous Policy and Administration, students should notify the M.P.P.A. **Supervisor when registering for their first year.**

Requirements (7.0 credits):

1. **5.0 credits in** core courses: 5.0

    PADM 5120 [0.5]   Modern Challenges to Governance

    PADM 5121 [0.5]   Policy Analysis: The Practical Art of Change

    PADM 5122 [0.5]   Public Management: Principles and Approaches

    PADM 5123 [0.5]   Public Management in Practice

    PADM 5124 [0.5]   Law and Ethics

    PADM 5126 [0.5]   Quantitative Methods for Public Policy

    PADM 5127 [0.5]   Microeconomics for Policy Analysis

    PADM 5128 [0.5]   Macroeconomics for Policy Analysis

    PADM 5129 [0.5]   Capstone Course

2. ~~2.0 credits from:~~   ~~2.0~~

    ~~PADM 5711 [0.5]~~   ~~Indigenous-Canada Relations: Governance and Policy History~~

    PADM 5224 [0.5]   Indigenous Policy

2. **0.5 credits from:**   **0.5**

    PADM 5125 [0.5]   Qualitative Methods for Public Policy

    PADM 5715 [0.5]   Policy Research and Evaluation for Indigenous Policy and Administration

3. **1.5 credits from:**   **1.5**

    PADM 5712 [0.5]   Issues in Contemporary Governance: First Nations, Métis and Inuit

    PADM 5713 [0.5]   Leadership and Management in Indigenous Organizations and Governments

    PADM 5714 [0.5]   Financial Management in First Nations, Métis and Inuit Governments and Organizations

    PADM 5716 [0.5]   Economic and Community Development in Indigenous Territories

    PADM 5717 [0.5]   Indigenous Peoples and Canadian Law

    PADM 5718 [0.5]   Indigenous Peoples and Urban Policy and Administration

    PADM 5719 [0.5]   Indigenous Health and Social Policy

    PADM 5772 [0.5]   Policy Seminar (Indigenous Policy and Administration)

    PADM 5703 [0.5]   Directed Studies (Indigenous Public Administration)

    PADM 5908 [1.0]   Research Essay

Note: Students are required to complete PADM 5224 before registering in any of the other electives for the IPA concentration in Item 3.

Total Credits   7.0

Master of Public Policy and Administration
with Concentration in Indigenous Policy and Administration
(Advanced Completion, 5.0 credits)

Requirements: (See Notes below):

1. **3.5 credits in core courses:**   **3.5**

    PADM 5120 [0.5]   Modern Challenges to Governance

    PADM 5121 [0.5]   Policy Analysis: The Practical Art of Change

    PADM 5122 [0.5]   Public Management: Principles and Approaches

    PADM 5123 [0.5]   Public Management in Practice

    PADM 5124 [0.5]   Law and Ethics

    PADM 5125 [0.5]   Qualitative Methods for Public Policy

    PADM 5126 [0.5]   Quantitative Methods for Public Policy

    PADM 5127 [0.5]   Microeconomics for Policy Analysis

    PADM 5128 [0.5]   Macroeconomics for Policy Analysis

PADM 5129 [0.5]   **Capstone Course**

PADM 5224 [0.5]   **Indigenous Policy**

PADM 5715 [0.5]   **Policy Research and Evaluation for Indigenous Policy and Administration**

2. **1.5 credits from:**   **1.5**

PADM 5711 [0.5]   **Indigenous-Canada Relations: Governance and Policy History**

PADM 5712 [0.5]   **Issues in Contemporary Governance: First Nations, Métis and Inuit**

PADM 5713 [0.5]   **Leadership and Management in Indigenous Organizations and Governments**

PADM 5714 [0.5]   **Financial Management in First Nations, Métis and Inuit Governments and Organizations**

PADM 5716 [0.5]   **Economic and Community Development in Indigenous Territories**

PADM 5717 [0.5]   **Indigenous Peoples and Canadian Law**

PADM 5718 [0.5]   **Indigenous Peoples and Urban Policy and Administration**

PADM 5719 [0.5]   **Indigenous Health and Social Policy**

PADM 5772 [0.5]   **Policy Seminar (Indigenous Policy and Administration)**

PADM 5703 [0.5]   **Directed Studies (Indigenous Public Administration)**

PADM 5908 [1.0]   **Research Essay**

Note: additional credits may be required, as specified on offer of admission.

Note: Students are required to complete PADM 5224 before registering in any of the other electives for the IPA concentration in Item 2.

Total Credits	5.0

~~Supervisor normally during the first two semesters of the program.~~

New Resources	No New Resources
Summary	Master of Public Policy and Administration with Concentration in Indigenous Policy and Administration 1. Change wording of program summary. 2. Added PADM 5224 to section #1. 3. Added a new section,'2. 0.5 credits from:' and rearrange courses, so PADM 5125 and PADM 5715 were under this heading. 4.Removed PADM 5711 from section #3. 5. Added PADM 5703 and PADM 5908 to section #3. 6. Added note. Master of Public Policy and Administration with Concentration in Indigenous Policy and Administration (Advance Completion Option - 5.0 credits) 1. Added PADM 5224 and PADM 5715 to section #1. 2. Added PADM 5703 and PADM 5908 to section #2. 3. Added Note.
Rationale for change	These changes are required to being the calendar in-line with current practice. The IPA concentration was amended to allow students without a background in indigenous policy the opportunity to take the concentration.
Transition/Implementation	The School will be informing students of program changes through advising, providing information during the orientation and referring students to the Graduate Calendar (once updated).
Program reviewer comments	**sandrabauer (09/08/20 2:32 pm):** Rollback: Inadvertently moved forward **sandrabauer (09/29/20 3:21 pm):** added reference to the Item in question, in note regarding PADM 5224 at the request of P&P. **sarahcleary (10/27/20 9:52 am):** Rollback: Rollback as requested.

sandrabauer (11/17/20 1:47 pm): Credit totals corrected per correspondence with J. Stewart Nov 11.

Key: 1391

Date Submitted: 09/29/20 12:06 pm

Viewing: **PHD-43 : Ph.D. International Affairs**

Last approved: 02/21/20 12:50 pm

Last edit: 11/18/20 1:15 pm

Last modified by: sandrabauer

Changes proposed by: coleenkornelsen

In Workflow

1. **INAF ChairDir GR**
2. **PA Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 09/29/20 2:27 pm
   Yiagadeesen Samy
   (yiagadeesensamy):
   Approved for INAF
   ChairDir GR
2. 09/30/20 8:04 pm
   David Mendeloff
   (davidmendeloff):
   Approved for PA Dean
3. 10/19/20 3:28 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
4. 10/19/20 3:39 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
5. 10/28/20 11:43 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
6. 11/18/20 11:05 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard

History

1. Nov 12, 2014 by vickih
2. Nov 12, 2014 by sandra
3. Nov 12, 2014 by sandra
4. Nov 12, 2014 by sandra
5. Nov 12, 2014 by sandra

6. May 11, 2015 by sandra
7. May 11, 2015 by sandra
8. May 20, 2015 by sandra
9. May 21, 2015 by sandra
10. May 21, 2015 by sandra
11. May 21, 2015 by sandra
12. Oct 22, 2015 by Sandra Bauer (sandrabauer)
13. Jan 13, 2016 by Patricia Lacroix (patricialacroix)
14. Apr 26, 2016 by Sandra Bauer (sandrabauer)
15. Mar 15, 2017 by Leslie Macdonald-Hicks (lesliemacdonaldhicks)
16. May 5, 2017 by Sandra Bauer (sandrabauer)
17. Feb 1, 2018 by Sandra Bauer (sandrabauer)
18. Apr 2, 2019 by Patricia Lacroix (patricialacroix)
19. May 10, 2019 by Mike Labreque (mikelabreque)
20. Feb 21, 2020 by Sandra Bauer (sandrabauer)

Calendar Pages Using this Program	International Affairs
Effective Date	2021-22
Workflow	majormod
Program Code	PHD-43
Level	Graduate
Faculty	Faculty of Public Affairs
Academic Unit	Norman Paterson School of International Affairs
Degree	Doctor of Philosophy
Title	Ph.D. International Affairs

Program Requirements

Ph.D. International Affairs (10.0 credits)

Requirements (10.0 credits):

1. **1.5 credits in:**   1.5

   INAF 6001 [0.5]   Qualitative Research Methods

     INAF 6002 [0.5]   Quantitative Research Methods

     INAF 6003 [0.5]   Advanced International Policy Analysis

2. 0.5 credit in required INAF economics course for the declared field listed below (see Note, below)   0.5

3. 1.5 credits in courses in the declared field   1.5

4. 0.0 credit in:

     INAF 6800 [0.0]   Doctoral Field Comprehensive Seminar

5. 0.5 credit from Doctoral Field Examination in the declared field: 0.5

     INAF 6100 [0.5]   Doctoral Field Examination in Conflict Management and Resolution

     INAF 6200 [0.5]   Doctoral Field Examination in International Development Policy

     INAF 6300 [0.5]   Doctoral Field Examination in International Economic Policy

     INAF 6400 [0.0]   Doctoral Field Exam in Security, Intelligence and Defence (SID)

6. Language requirement (see details below)

7. 1.0 credit in: doctoral research seminar and public defence of the doctoral research prospectus   1.0

     INAF 6906 [0.5]   Doctoral Research Prospectus Seminar

     INAF 6907 [0.5]   Doctoral Research Prospectus Defence

8. 5.0 credits in: 5.0

     INAF 6909 [5.0]   Doctoral Research Thesis

Total Credits   10.0

Note: students without strong economics training may be required to complete additional INAF economics courses.

Language Requirement

Doctoral students must successfully complete an examination in a second language administered by the School of Linguistics and Language Studies, or meet the equivalent standard as determined by the School of Linguistics and Language Studies. Students are expected to complete this requirement or demonstrate significant progress by the end of their second year.

Completion Timeline

Ph.D. students must be registered full time for the duration of their program. Students are expected to successfully complete the field comprehensive examination (0.5 credit) by the end of the first year, the required 4.0 credits of coursework by the end of their second year, and defend their research prospectus (0.5 credit) no later than the end of the third year.

A student whose performance on the field comprehensive examination is not deemed satisfactory will be allowed to repeat the examination once, and the second attempt must take place no later than the next academic term. A student whose research prospectus defense is not deemed satisfactory will be required to repeat the research prospectus defense in the next academic term, and no later than the end of the Fall term of the fourth year. Students who have not successfully completed the comprehensive examination and/or prospectus defence within the specified time will be subject to removal from the program.

Students may only register in INAF 6909 following successful defense of the research prospectus, are expected to demonstrate evidence of research progress annually, and will be required to present their work at the NPSIA Research Seminar Series or show equivalent research activity.

New Resources	No New Resources
Summary	1. Establishing a new field: Security, Intelligence and Defence (SID). 2. Creating a new course code: INAF 6400 - Doctoral Field Exam for Security, Intelligence and Defence (SID)
Rationale for change	When NPSIA's PhD program was established in 2006, the field— "International Conflict

Management and Resolution" was created to reflect the expertise of NPSIA's faculty, with the topics included around the international conflict management and resolution. But the world has changed. With the growing needs of security, intelligence/terrorism, and defence, NPSIA now has a strong team of faculty with expertise in these areas, and applicants come to NPSIA aiming to do their PhD with their supervisions. But until now, these security focused students were recruited in the Conflict field, with modifications on our comprehensive exams to include many topics in the security field to meet their needs. However, these security related topics have diluted the conflict focus on the one hand and have made the comprehensive exam in the Conflict field unnecessarily too broad on the other. Thus, establishing the Security, Intelligence and Defence (SID) field is the logical way to tailor students' research interests and match our faculty's strengths.

Transition/Implementation	No impact.
Program reviewer comments	**sandrabauer (11/18/20 1:15 pm):** Removed " (listed below)" from Item 3 as there is no list. Per corr. between FGPA and NPSIA

Key: 965

New Course Proposal

Date Submitted: 09/29/20 11:54 am

Viewing: INAF 6400 : Doctoral Field Examination in Security, Intelligence and Defence (SID)

Last edit: 01/15/21 10:57 am

Changes proposed by: coleenkornelsen

Programs referencing this course	Ph.D. International Affairs

In Workflow

1. **INAF ChairDir GR**
2. **PA Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. **SCCASP**
9. **SQAPC**
10. **Senate**
11. Banner

Approval Path

1. 09/29/20 11:57 am Yiagadeesen Samy (yiagadeesensamy): Approved for INAF ChairDir GR
2. 09/30/20 8:03 pm David Mendeloff (davidmendeloff): Approved for PA Dean
3. 10/19/20 3:27 pm Sandra Bauer (sandrabauer): Approved for GRAD Dean
4. 10/19/20 3:39 pm Sandra Bauer (sandrabauer): Approved for PRE GRAD FCC
5. 10/28/20 11:37 am Sandra Bauer (sandrabauer): Approved for GRAD FCC
6. 11/18/20 11:01 am Sandra Bauer (sandrabauer): Approved for GRAD FBoard
7. 11/25/20 2:47 pm Sarah Cleary (sarahcleary): Approved for PRE SCCASP
8. 12/04/20 4:23 pm Erika Strathearn (erikastrathearn): Approved for SCCASP

9. 12/14/20 8:37 am
   Christina Noja
   (christinanoja): Approved
   for SQAPC

Effective Date	2021-22
Workflow	majormod
New Resources	
Level	Graduate
Course Code	INAF
Course Number	6400
Title	Doctoral Field Examination in Security, Intelligence and Defence (SID)
Title (short)	Doc Field Exam Sec, Intell Def

Faculty	Faculty of Public Affairs
Academic Unit	Norman Paterson School of International Affairs
Credit Value	0.50
Significant Experiential Learning	None
Course Description	A comprehensive examination covering interdisciplinary and policy-oriented research on key policy issues in security, intelligence and defence. Material is drawn from a core reading list, the required economics and three field courses declared by the student and approved by the Ph.D. Supervisor.
Prerequisite(s)	Enrolment in the NPSIA Ph.D. program or permission of the School.
Class Format	
Precluded Courses	
Also listed as	
Piggybacked Courses	
U Ottawa Code	

Grade Mode	Satisfactory/Unsatisfactory
Schedule Type	Other Seminar

*May constitute a major modification under Carleton's IQAP. Please consult
https://carleton.ca/viceprovost/major-minor-modifications/ for more details.

No

Unpaid Placement

Summary	*Associated with PHD-43 : Ph.D. International Affairs* 1. Establish new field: Security, Intelligence and Defence (SID) 2. Create a new course code: INAF 6400 - Doctoral Field Exam in Security, Intelligence and Defence (SID)
Rationale for new course	When NPSIA's PhD program was established in 2006, the field— "International Conflict Management and Resolution" was created to reflect the expertise of NPSIA's faculty, with the topics included around the international conflict management and resolution. But the world has changed. With the growing needs of security, intelligence/terrorism, and defence, NPSIA now has a strong team of faculty with expertise in these areas, and applicants come to NPSIA aiming to do their PhD with their supervisions. But until now, these security focused students were recruited in the Conflict field, with modifications on our comprehensive exams to include many topics in the security field to meet their needs. However, these security related topics have diluted the conflict focus on the one hand and have made the comprehensive exam in the Conflict field unnecessarily too broad on the other. Thus, establishing the Security, Intelligence and Defence (SID) field is the logical way to tailor students' research interests and match our faculty's strengths.
Course reviewer comments	**sarahcleary (01/15/21 10:57 am):** Updated title from 'Exam' to 'Examination' as per OVPAVPA and D. Nwakanma.

Key: 10168
Preview Bridge
Why Did This Not Sync?

Preview Bridge

New Program Proposal

Date Submitted: 10/19/20 2:02 pm

Viewing: **TBD-2054 : M.A. International Affairs with Specialization in Data Science**

Last edit: 11/11/20 3:08 pm

Last modified by: sandrabauer

Changes proposed by: coleenkornelsen

In Workflow

1. **INAF ChairDir GR**
2. **PA Dean**
3. **GRAD Dean**
4. **PRE GRAD FCC**
5. **GRAD FCC**
6. **GRAD FBoard**
7. **PRE SCCASP**
8. SCCASP
9. SQAPC
10. Senate
11. CalEditor

Approval Path

1. 10/19/20 2:19 pm
   Yiagadeesen Samy
   (yiagadeesensamy):
   Approved for INAF
   ChairDir GR
2. 10/19/20 4:42 pm
   David Mendeloff
   (davidmendeloff):
   Approved for PA Dean
3. 10/20/20 4:52 pm
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD Dean
4. 10/20/20 5:02 pm
   Sandra Bauer
   (sandrabauer): Approved
   for PRE GRAD FCC
5. 10/28/20 11:40 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FCC
6. 11/18/20 11:04 am
   Sandra Bauer
   (sandrabauer): Approved
   for GRAD FBoard

Effective Date	2021-22
Workflow	majormod
Program Code	TBD-2054
Level	Graduate

Faculty	Faculty of Public Affairs
Academic Unit	Norman Paterson School of International Affairs
Degree	Master of Arts
Title	M.A. International Affairs with Specialization in Data Science

Program Requirements

M.A. International Affairs
with Specialization in Data Science (5.0 credits)

Requirements - Thesis pathway:

1. 0.5 credit in: **0.5**

    DATA 5000 [0.5]   **Data Science Seminar**

2. 1.0 credit in: **1.0**

    INAF 5016 [0.5]   **Statistical Analysis for International Affairs**

    INAF 5017 [0.25]   **International Policymaking in Canada: Structure and Process**

    INAF 5018 [0.25]   **Law and International Affairs**

3. 0.5 credit in Economics, successfully completed by the end of the second term from: (see Note 1, below)   **0.5**

    INAF 5009 [0.5]   **International Aspects of Economic Development**

    INAF 5205 [0.5]   **Economics of Conflict**

    INAF 5214 [0.5]   **Economics for Defence and Security**

    INAF 5308 [0.5]   **International Trade: Theory and Policy**

    INAF 5309 [0.5]   **International Finance: Theory and Policy**

    INAF 5600 [0.5]   **The Economics of Human Development**

    INAF 5703 [0.5]   **International Public Economics**

4. 2.0 credits in: **2.0**

    INAF 5909 [2.0]   **M.A. Thesis (in the specialization)**

5. 1.0 credit in Field or Elective courses   **1.0**

6. Successful completion of second language proficiency examination (See Note 4, below)

Total Credits   5.0

Requirements - Research essay pathway:

1. 0.5 credit in: **0.5**

    DATA 5000 [0.5]   **Data Science Seminar**

2. 1.0 credit in: **1.0**

    INAF 5016 [0.5]   **Statistical Analysis for International Affairs**

    INAF 5017 [0.25]   **International Policymaking in Canada: Structure and Process**

    INAF 5018 [0.25]   **Law and International Affairs**

3. 0.5 credit in Economics, successfully completed by the end of the second term, from: (See Note 1, below)   **0.5**

    INAF 5009 [0.5]   **International Aspects of Economic Development**

    INAF 5205 [0.5]   **Economics of Conflict**

    INAF 5214 [0.5]   **Economics for Defence and Security**

    INAF 5308 [0.5]   **International Trade: Theory and Policy**

INAF 5309 [0.5] **International Finance: Theory and Policy**	
INAF 5600 [0.5] **The Economics of Human Development**	
INAF 5703 [0.5] **International Public Economics**	
4. 1.0 credit in:	**1.0**
INAF 5908 [1.0] **Research Essay (in the specialization)**	
5. 2.0 credits in Field or Elective Courses (See Note 3, below)	**2.0**
6. Successful completion of second language proficiency examination (See Note 4, below)	
Total Credits	5.0

Requirements - Coursework pathway:

1. 0.5 credit in:	**0.5**
DATA 5000 [0.5] **Data Science Seminar**	
2. 1.0 credit in:	**1.0**
INAF 5016 [0.5] **Statistical Analysis for International Affairs**	
INAF 5017 [0.25] **International Policymaking in Canada: Structure and Process**	
INAF 5018 [0.25] **Law and International Affairs**	
3. 0.5 credit in specialization: (see Note 1, below)	**0.5**
INAF 5904 [0.5] **Quantitative Research Methods**	
INAF 6002 [0.5] **Quantitative Research Methods**	
4. 0.5 credit in Economics, successfully completed by the end of the second term, from: (see Note 2, below)	**0.5**
INAF 5009 [0.5] **International Aspects of Economic Development**	
INAF 5205 [0.5] **Economics of Conflict**	
INAF 5214 [0.5] **Economics for Defence and Security**	
INAF 5308 [0.5] **International Trade: Theory and Policy**	
INAF 5309 [0.5] **International Finance: Theory and Policy**	
INAF 5600 [0.5] **The Economics of Human Development**	
INAF 5703 [0.5] **International Public Economics**	
5. 2.5 credits in Field or Elective courses (See Note 3, below)	**2.5**
6. Successful completion of second language proficiency examination (see Note 4, below)	
Total Credits	5.0

Notes:

1. The course must include at least one major assignment with a significant data science component. The selected course must be approved by the School and Institute for Data Science. An accepted data science specialization course from outside the School can be used for this requirement with approval.
2. All students must complete the 0.5 credit economics course for their designated field, or an approved alternate economics course. For students in the IEP field both INAF 5308 and INAF 5309 , or approved equivalent, must be completed.
3. For elective courses, 1.5 credits of the total required 5.0 credits may be selected from courses offered in other departments, with a maximum of 1.0 credit from a single department and a maximum of 1.0 credit selected from fourth year undergraduate courses. Any course not identified as an INAF 5000-level course must be approved by the M.A. Program Supervisor.
4. Students must successfully complete an examination in second language proficiency administered by Carleton University's School of Linguistics and Language Studies, or meet the equivalent standard as determined by the School of Linguistics and Language Studies. Details of the language requirement are provided on the School website.

New Resources	No New Resources
Summary	Proposal to allow students to have the specialization in Data Science in the Thesis, MRE, or coursework program options.

Rationale

Adding this specialization will help recruitment for students looking for an option to continue, start, or acquire data science skills to utilize the increasing availability of data. This program addition has been approved by the Director of the Institute for Data Science.

Transition/Implementation

Participating units are permitted five spaces in the required DATA 5000 seminar.
1. Thesis - add DATA 5000 seminar; thesis must be related to Data Science
2. MRE - add DATA 5000 seminar; MRE must be related to Data Science
3. Coursework - Add DATA 5000 seminar; required INAF 5904, INAF 6002 or an accepted data science course approved by the School)

Program reviewer comments

sandrabauer (10/20/20 4:36 pm): Revised formatting.

Key: 2054