



DATE: March 24, 2023

TO: Senate

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

RE: 2023-24 Calendar Curriculum Proposals
Undergraduate and Graduate Major Modifications

Background

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

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 2023-24 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 changes that are subject to Senate approval at this meeting, the following omnibus motion will be moved. Senators may wish to identify any of the 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.

Major Modifications

1. Concentration in Supply Chain Management

SCCASP approval: December 20, 2022

SQAPC approval: March 9, 2023

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Concentration in Supply Chain Management as presented with effect from Fall 2023.

2. TIM change in Mode of Delivery

SCCASP approval: N/A

SQAPC approval: March 9, 2023

Senate Motion March 31, 2023

THAT Senate approve an online mode of delivery for the MEng, MEnt, MABA and MDTE in Technology Innovation Management program as presented with effect from Fall 2023.

3. Undergraduate Programs in Political Science

SCCASP approval: March 7, 2022

SQAPC approval: March 9, 2023

Senate Motion March 31, 2023

THAT Senate approve the deletion of the undergraduate concentrations in Political Science as presented with effect from Fall 2024.

4. MA Sustainable Energy

SCCASP approval: March 7, 2023

SQAPC approval: March 9, 2023

Senate Motion March 31, 2023

THAT Senate approve the change in degree and program name from the Master of Arts in Sustainable Energy to the Master of Public Policy in Sustainable Energy and the Environment as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the change in degree and program name from the Master of Arts in Sustainable Energy with Collaborative Specialization in Climate Change to the Master of Public Policy in Sustainable Energy and the Environment with Collaborative Specialization in Climate Change as presented with effect from Fall 2023.

5. Collaborative Specialization in Accessibility

SCCASP approval: March 21, 2023

SQAPC approval: March 23, 2023

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the MA program in Sociology as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the MA program in Anthropology as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the MA program in Women's and Gender Studies as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the MASC program in Biomedical Engineering as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the MA program in History as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the MA program in Music and Culture as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the MA program in Political Economy as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the MSc program in Neuroscience as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the Master of Human-Computer Interaction program as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the Master of Design program as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the MSc program in Health Sciences as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the MSc program in Health: Science Technology and Policy as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the MEng program in Biomedical Engineering as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the Master of Entrepreneurship – Technology Innovation Management program as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the MA program in Legal Studies as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Accessibility to the MA program in Geography as presented with effect from Fall 2023.

6. Collaborative Specialization in Cybersecurity

SCCASP approval: March 21, 2023

SQAPC approval: March 23, 2023

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Cybersecurity as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Cybersecurity to the Master of Computer Science program as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Cybersecurity to the MASc program in Electrical and Computer Engineering as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Cybersecurity to the MEng program in Electrical and Computer Engineering as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Cybersecurity to the Master of Infrastructure Protection and International Security program as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Cybersecurity to the MA program in International Affairs as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Cybersecurity to the Master of Information Technology: Digital Media program as presented with effect from Fall 2023.

Senate Motion March 31, 2023

THAT Senate approve the introduction of the Collaborative Specialization in Cybersecurity to the Master of Information Technology: Network Technology program as presented with effect from Fall 2023.

7. Data Science and Analytics

SCCASP approval: March 21, 2023

SQAPC approval: March 23, 2023

Senate Motion March 31, 2023

THAT Senate approve the name change of the Masters and PHD programs from Data Science and Analytics to Data Science, Analytics and Artificial Intelligence with effect from Fall 2023.

THAT Senate approve the coursework pathway for the Master of Information Technology (M.I.T) Data Science, Analytics and Artificial Intelligence with effect from Fall 2023.

THAT Senate approve the coursework pathway for the Master of Science (M.Sc.) Data Science, Analytics and Artificial Intelligence with effect from Fall 2023.

8. Religion and Public Life

SCCASP approval: March 21, 2023

SQAPC approval: March 23, 2023

Senate Motion March 31, 2023

THAT Senate approve the deletion of the Q-year in Religion and Public Life as presented with effect from Fall 2023.

Date Submitted: 11/25/22 4:37 pm

Viewing: **BCOMM-3T : Concentration in Supply Chain Management**

Last approved: 05/09/22 3:11 pm

Last edit: 02/13/23 10:20 am

Last modified by: nataliephelan

[Changes proposed by: mariawalt](#)

In Workflow

1. **BUSI ChairDir UG**
2. **BUS FCC**
3. **BUS FBoard**
4. **PRE SCCASP**
5. **SCCASP**
6. **SQAPC**
7. PRE CalEditor
8. CalEditor

Approval Path

1. 11/09/22 1:37 pm
Howard Nemiroff
(howardnemiroff):
Rollback to Initiator
2. 11/24/22 11:15 am
Howard Nemiroff
(howardnemiroff):
Rollback to Initiator
3. 12/16/22 1:23 pm
Howard Nemiroff
(howardnemiroff):
Approved for BUSI
ChairDir UG
4. 12/16/22 1:38 pm
Howard Nemiroff
(howardnemiroff):
Approved for BUS FCC
5. 12/16/22 1:41 pm
Howard Nemiroff
(howardnemiroff):
Approved for BUS FBoard
6. 12/16/22 2:47 pm
Natalie Phelan
(nataliephelan):
Approved for PRE
SCCASP
7. 12/21/22 2:20 pm
Erika Strathearn
(erikastrathearn):
Approved for SCCASP

History

1. Mar 19, 2014 by sandra
2. Jan 26, 2017 by Howard Nemiroff

- (howardnemiroff)
 3. Jan 22, 2018 by Alana Brzozowski (alanabrzozowski)
 4. May 9, 2022 by Natalie Phelan (nataliephelan)
 5. May 9, 2022 by Natalie Phelan (nataliephelan)

Calendar Pages Using this Program [Business](#)

Effective Date	2023-24
Workflow	majormod minormod
Program Code	BCOMM-3T
Level	Undergraduate
Faculty	Sprott School of Business
Academic Unit	School of Business
Degree	Bachelor of Commerce
Title	Concentration in Supply Chain Management

Program Requirements

Concentration in Supply Chain Management (4.0 ~~4.5~~ credits)

~~1. 2.5 credits in:~~

~~2.5~~

1. 3.0 credits in:

3.0

BUSI 3301 [0.5]	Global Supply Chain Management
BUSI 3305 [0.5]	Distribution Channels and Logistics
BUSI 4302 [0.5]	Management of Quality
BUSI 4304 [0.5]	Procurement and Contracting
BUSI 4607 [0.5]	Management of Technology and Innovation
BUSI 4708 [0.5]	International Expansion and Operations
ECON 3600 [0.5]	Introduction to International Economics
LAWS 3208 [0.5]	International Trade Regulation
STAT 3503 [0.5]	Regression Analysis
STAT 3507 [0.5]	Sampling Methodology
<u>BUSI 4301 [0.5]</u>	<u>Artificial Intelligence and Business Decision Models</u>
BUSI 4331 [0.5]	Industry 4.0 Technologies and Applications

~~2. 2.0 credits from:~~

~~2.0~~

2. 1.0 credit from:

1.0

<u>BUSI 3204 [0.5]</u>	<u>Digital Marketing</u>
--	--------------------------

BUSI 3208 [0.5]	Business-to-Business Marketing
BUSI 3400 [0.5]	Database Design
BUSI 3402 [0.5]	Systems Analysis and Design
BUSI 3706 [0.5]	International Business Negotiations
BUSI 4308 [0.5]	Simulation Modeling and Analytics
BUSI 4400 [0.5]	IS Management and Strategy
BUSI 4406 [0.0]	Course BUSI 4406 Not Found
BUSI 4408 [0.5]	Social Analytics
<u>LAWS 3207</u> [0.5]	<u>International Transactions</u>

Total Credits

4.0

Note: In Item 2 above, for further emphasis within this concentration, students may cluster courses in the following manners:

2a. E-Supply Chain Management:

BUSI 3208 [0.5]	Business-to-Business Marketing
BUSI 3400 [0.5]	Database Design
BUSI 3402 [0.5]	Systems Analysis and Design
BUSI 4301 [0.5]	Artificial Intelligence and Business Decision Models
BUSI 4309 [0.0]	Practicum in Supply Chain Management
BUSI 4400 [0.5]	IS Management and Strategy
BUSI 4607 [0.5]	Management of Technology and Innovation

2b. Supply Chain Management – Business Analytics:

BUSI 3400 [0.5]	Database Design
BUSI 4406 [0.0]	Course BUSI 4406 Not Found
BUSI 4408 [0.5]	Social Analytics
BUSI 4301 [0.5]	Artificial Intelligence and Business Decision Models
BUSI 4308 [0.5]	Simulation Modeling and Analytics
BUSI 4309 [0.0]	Practicum in Supply Chain Management
STAT 3503 [0.5]	Regression Analysis
STAT 3507 [0.5]	Sampling Methodology

2c. Global Supply Chain Management:

BUSI 3208 [0.5]	Business-to-Business Marketing
BUSI 3706 [0.5]	International Business Negotiations
BUSI 4301 [0.5]	Artificial Intelligence and Business Decision Models
BUSI 4309 [0.0]	Practicum in Supply Chain Management
BUSI 4708 [0.5]	International Expansion and Operations
ECON 3600 [0.5]	Introduction to International Economics
LAWS 3208 [0.5]	International Trade Regulation

New Resources

No New Resources

Summary

Adjusted the requirements of the concentration - including number of credits from 4.5 to 4.0 and the removal of themes/course options.

Rationale for change

Students no longer have a choice between courses that are critical to the core supply chain curriculum. The SCM Area determined that the newly prescribed avenue was essential for all SCM concentration students. With the adding of our BA concentration and stream, it is felt that these students would be better served by taking BA courses to complement their SCM concentration, rather than the present SCM options - in terms of concept and marketability. Further, there are fewer students in the SCM concentration proper, thus making offering those additional elective courses on a regular basis difficult. Collecting the students in to a

smaller pool, limiting concentration choice, and pointing them to the BA offerings works in their best interests.

Transition/Implementation n/a

Program reviewer
comments

howardnemiroff (11/09/22 1:37 pm): Rollback: Edits req'd
howardnemiroff (11/24/22 11:15 am): Rollback: combine items 1 & 2
nataliephelan (01/24/23 3:59 pm): Corrected numbering of second sub-requirement.
nataliephelan (02/13/23 10:20 am): Changed sub-req #2 wording to match calendar style.

Key: 509

MEMORANDUM

To: Senate Quality Assurance and Planning Committee (SQAPC)

From: Stoyan Tanev, Director, Technology Innovation Management Program

CC: Dana Brown, Dean, Sprott School of Business
Patrice Smith, Dean, Faculty of Graduate and Postdoctoral Affairs
Dan Siddiqi, Associate Dean, Programs, Faculty of Graduate and Postdoctoral Affairs

Date: Nov 1, 2022

Subject: Major Modification to the Technology Innovation Management Program Track A1
Introduction of Online and Hybrid Delivery Modes

Modification Description

Description of the new modification

TIM is an inter-faculty program of the Sprott School of Business and the Faculty of Engineering and Design (FED). The TIM program currently offers three project-based pathways – Master of Engineering (MEng); Master of Entrepreneurship (MEnt); and the Master of Applied Business Analytics (MABA), and a thesis-based program pathway – Master of Applied Science (MASc) in Technology Innovation Management which is in the process of being renamed to a Master of Science (MSc) in Technology Innovation Management. We are also in the process of introducing a fourth project-based program pathway titled “Master of Digital Transformation & Entrepreneurship (MDTE) in Technology Innovation Management.”

The proposed modification consists of introducing a new online delivery mode for all of the project-based pathways:

Master of Engineering – Online (MEng-Online)

Master of Entrepreneurship – Online (MEnt-Online)

Master of Applied Business Analytics – Online (MABA-Online)

Master of Digital Transformation and Entrepreneurship – Online (MDTE-Online)

The new online delivery mode will complement the existing face-to-face delivery mode for all of the project pathways, support TIM’s program objective to enhance Carleton’s entrepreneurship agenda, and grow the number of TIM full-time students from 200 to 400 in the next three years.

Although the introduction of a new delivery mode is considered a major modification, there will be no change to program learning objectives or curriculum under this proposal. The online MEng, MEnt, MABA, MDTE pathways will be delivered by TIM faculty and follow the same quality and assurance-of-learning procedures used in our existing face-to-face program pathways.

The principal rationale for curricular changes

The principal rationale for introducing an online version of the MEng, MEnt, MABA, MDTE TIM program pathways is to meet the needs of underserved markets that could help meeting TIM's plan to grow the number of its students from 200 to 400 in the next three years. Our experience in the last three years shows that there are four types of students interested in the different pathways of the TIM program: a) international students who would like to come to Canada, enhance their professional competences by completing the TIM program, and explore the opportunity to use the legal ways of remaining in Canada with a work permit or as permanent residents; b) international students who are interested in completing the program without being physically present in Canada (because of family situations, political sanctions, economic crisis conditions, etc.); c) domestic students who are interested in being physically present at classes and deeply engaged in the experiential learning activities; d) domestic students for whom traditional campus-based offerings are inaccessible or impractical (because of geographical distance, employment conditions or family situations).

The introduction of the online delivery mode addresses the needs of groups b) and d) of our potential students. Addressing the needs of these two groups represents a significant growth potential for the TIM program.

The addition of a fully online delivery mode will also enable TIM to benefit from its expertise to offer world-class remote learning opportunities to different student groups and professionals (the TIM program has been offering an online access to its courses for almost 15 years; we have been offering free short cross-border entrepreneurship programs as an international recruitment mechanism). Our expertise comes handy given the post-Covid reality, which has enhanced the preferences for remote work and teaching. Competition for students is intense, and applicants increasingly expect a hybrid learning experience that effectively leverages the strengths of both remote and face-to-face learning.

Description of changes to program structure

There will be no changes to the program structure. We are just offering a formal online delivery mode for all TIM project-based pathways.

Description of graduation requirements (required for stand-alone credentials)

The graduation requirements will be the same as for the face-to-face program pathways.

Impact on Other Programs

Although it shares the same learning goals and degree credentials as TIM's existing program offerings, we anticipate that the new online delivery mode will expand TIM program's reach across Canada and in international markets. We do not expect it to cannibalize existing face-to-face offerings because they provide distinctive benefits that the online will not (approximately 85% of our current full-time weekday TIM cohort are international students, the majority of whom indicate that they were attracted by the opportunity to learn, work, and live in Canada).

The online delivery mode targets a completely different group of students that will be recruited by using different communication strategies emphasizing the opportunity for them to receive a Canadian degree and acquire competences that will help them advance their professional careers in their own countries.

They will be also able to do their final TIM projects within their own organizations, which is an additional way for them to advance their careers by demonstrating their newly acquired competences.

The new online delivery option is expected to enlarge the number of our domestic students (both local and across Canada). We have been struggling in using our face-to-face program pathways to enlarge the body of our domestic students. The online deliver option offers an opportunity to do that.

Impact on Learning Outcomes and Curriculum Map

There is no change of the TIM program learning outcomes associated with the introduction of the new online delivery mode for all TIM project-based pathways.

Societal Need

The new online delivery mode will build on the content and the rationale behind the existing face-to-face pathways. The rationale is however enhanced by the opportunity to address the needs of international and domestic students who will appreciate the benefits of the online delivery mode.

Students

In the last three years we have witnessed the struggle of many international students who would have greatly enjoyed a fully online delivery mode (see above the principal rationale for introducing an online version). International students are struggling paying their tuition fees and an online delivery mode will help them make their studies more convenient and more affordable.

At the same time, domestic students (both local and across Canada) will enjoy the possibility of using the online delivery mode as a way of advancing their professional careers. Many sources have shown evidence of growing general interest in online learning in Canada. There has been a demand for flexible, high-quality online offerings that allow students to learn at their own pace and adjust their learning mode to changing life circumstances. For example,

- The Higher Education Quality Council of Ontario notes that adult learners in Ontario have a high need to enhance their skills, but family and work responsibilities often limit their ability to participate in traditional face-to-face programs (HEQCO, Lifelong Learning in Ontario).
- Improvements in technology and internet access have made online learning an increasingly popular option, and evidence suggests that this trend will continue. In Ontario, year over year growth in online learning stood at 14% in 2019 (National Survey of Online and Digital Learning).
- The Covid period has significantly increased the demand for online learning to the extent that it has become a regular practice at many universities.

Delivery Mode

The TIM program has been offering a parallel online teaching channel since 2007. This was a way to address the needs of our students who are professionals with minimum two years experience (most of them work during the day and some of them may travel for days). That is why our courses are offered in the evenings from 6 to 9 pm. Offering online access to our class sessions in parallel to the in person lectures followed by access to the video recordings of the classes was our way to accommodate the needs of our students who may have difficulty to attend some of the evening sessions. So, we have almost 15 years experience in offering online class sessions. This experience was enhanced during the Covid time. The online delivery does not affect the format of the final exams because they are organized as take home exams.

a) Adequacy of the technological platform and tools

We have been using the BigBlueButton for many years. We have now followed the university instructions and have moved to using the Zoom platform which meets perfectly our needs. It is nicely integrated with BrightSpace and allows recording of the sessions for anyone who is not able to attend in person. The in person sessions are automatically available as video recordings which are accessible asynchronously to anyone who was not present in person, not in town or not in Canada.

b) Sufficiency of support services and training for teaching staff

We have been enjoying the TLS support and even more so after moving to the Zoom platform. We have never had issues related to the need of additional or extra training. All our support needs were covered in a timely manner.

c) Sufficiency and type of support for students in the new learning environment

During the Covid times we had many students taking the class from India, Nigeria, Europe etc. We have never had students complaining about issues related to the learning environment. The student support provided by TLS seems to work very well.

d) Access

Our classes are always offered online in parallel to the in person lectures. The recordings are available to anyone registered in the course wherever he/she is in the world. We do also offer Q&A online sessions as a follow up of each lecture to address any questions the students who did not attend might have. However, the Q&A sessions are available to any student registered in the course.

Resources

a. *Faculty resources:*

The online delivery mode requires ***no net new faculty resources and thus does not include a budget.***

b. *Contract instructors:*

All courses will be offered by the faculty members who are currently offering the face-to-face and hybrid courses.

c. *Administrative support:*

The administrative needs of the online delivery mode will be addressed by means of the currently available administrative resources of the TIM program. We have a new TIM Administrator, a part time Grad Administrator, and in the process of hiring a Grad Administrator on a casual one year term position to help growing the number of students.

d. *Library resources:*

Students will be instructed on how to use the library resources as part of their online courses.

e. *Space:*

None. The teaching will be provided online.

f. *Equipment:*

None. The teaching will be provided online, using existing equipment.

g. *Graduate student funding:*

None.

Program Change Request

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 01/17/23 11:55 am

Viewing: **HBA-AP : Political Science Concentration in Canadian Politics**

Last approved: 04/25/22 10:09 am

Last edit: 01/17/23 12:02 pm

Last modified by: achimhurrelmann

Changes proposed by: amypapineau

In Workflow

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

Approval Path

1. 01/17/23 12:02 pm
Achim Hurrelmann
(achimhurrelmann):
Approved for PSCI
ChairDir UG
2. 01/17/23 12:05 pm
David Mendeloff
(davidmendeloff):
Approved for PA Dean
3. 01/17/23 12:06 pm
David Mendeloff
(davidmendeloff):
Approved for PA FCC
4. 01/17/23 12:07 pm
David Mendeloff
(davidmendeloff):
Approved for PA FBoard
5. 02/02/23 2:10 pm
Natalie Phelan
(nataliephelan):
Approved for PRE
SCCASP

History

1. Mar 20, 2014 by sandra
2. Jan 4, 2018 by Sandy
Herbert (sandyherbert)

Calendar Pages Using this Program [Political Science](#)

Effective Date	2024-25
Workflow	majormod
Program Code	HBA-AP
Level	Undergraduate
Faculty	Faculty of Public Affairs
Academic Unit	Department of Political Science
Degree	Bachelor of Arts Honours
Title	Political Science Concentration in Canadian Politics

Program Requirements

Concentration in Canadian Politics (3.5 credits)

- 1. 1.0 credit in:** 1.0
- [PSCI 2002](#) [0.5] Canadian Politics and Civil Society
&
[PSCI 2003](#) [0.5] Canadian Political Institutions
- 2. 2.5 credits in** Canadian politics, including at least 0.5 credit at the 4000-level for students in honours or combined honours programs chosen from: 2.5
- [PSCI 3000](#) [0.5] Canadian Provincial Politics
- [PSCI 3004](#) [0.5] Political Parties and Elections in Canada
- [PSCI 3005](#) [0.5] Ontario Government and Politics
- [PSCI 3006](#) [0.5] Social Power in Canadian Politics
- [PSCI 3007](#) [0.5] Constitutional Politics in Canada
- [PSCI 3109](#) [0.5] The Politics of Law and Morality
- [PSCI 3401](#) [0.5] Canadian Public Administration
- [PSCI 3402](#) [0.5] Canadian Public Policy
- [PSCI 3406](#) [0.5] Public Affairs and Media Strategies
- [PSCI 3407](#) [0.5] Public Opinion and Public Policy
- [PSCI 3606](#) [0.5] Canadian Foreign Policy
- [PSCI 3607](#) [0.5] North American Security and Defence Policy
- [PSCI 4003](#) [0.5] Politics and the Media
- [PSCI 4005](#) [0.5] Canadian Federalism
- [PSCI 4006](#) [0.5] Legislatures and Representation in Canada
- [PSCI 4008](#) [0.5] National Security and Intelligence in the Modern State

PSCI 4009 [0.5]	Quebec Politics
PSCI 4010 [0.5]	Executive Power in Canadian Politics
PSCI 4107 [0.5]	Political Participation in Canada
PSCI 4109 [0.5]	The Politics of the Canadian Charter of Rights and Freedoms
PSCI 4206 [0.5]	Indigenous Politics of North America
PSCI 4209 [0.5]	Westminster Democracies: Parliaments, Parties and Elections
PSCI 4506 [0.5]	Women and Politics in North America
PSCI 4607 [0.5]	Politics of North America
PSCI 4908 [1.0]	Honours Research Essay (with Departmental approval, for qualified Honours students on an accepted Canadian Politics theme)

3. French must be used to satisfy the Departmental language requirement.

Total Credits

3.5

New Resources

Summary

Remove old concentration to make way for the new one.

Rationale for change

Several concentrations are undersubscribed – enrolments are low and very few students have graduated with these concentrations over the past decade. Of students graduating with a concentration in Political Science between 2012-2021, over 90% were in three of the eight areas. Overall undergraduate enrolment in Political Science has fallen during this same period, along with teaching and faculty resources. As a result, the department can neither justify nor feasibly offer the full breadth of courses in all concentrations on a regular basis. We have revised the three concentrations with the greatest enrolments by adding complementary courses and themes from the concentrations we are eliminating. This ensures students are still able to pursue specialized studies in a wide range of topic areas that are consistent with disciplinary fields and the expertise of faculty. The revised concentrations have a broader range of elective courses, which ensures that students have both choice and flexibility in selecting courses that cohere with their interests and schedules. At the same time, increasing the number of credits required for the concentration from 3.5 to 4.0 ensures that students attain sufficient depth of knowledge in their selected area.

Transition/Implementation

Messaging will be sent out to students about this change.

Program reviewer comments

Key: 620

Program Change Request

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 01/10/23 1:08 pm

Viewing: **HBA-AE3 : Political Science Concentration in Comparative Politics and Area Studies (Global North)**

Last approved: 07/25/22 4:06 pm

Last edit: 01/10/23 1:08 pm

Last modified by: amypapineau

Changes proposed by: amypapineau

In Workflow

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

Approval Path

1. 10/11/22 11:30 am
Achim Hurrelmann
(achimhurrelmann):
Approved for PSCI
ChairDir UG
2. 10/11/22 11:42 am
David Mendeloff
(davidmendeloff):
Approved for PA Dean
3. 10/21/22 1:48 pm
David Mendeloff
(davidmendeloff):
Approved for PA FCC
4. 11/28/22 10:30 am
David Mendeloff
(davidmendeloff):
Approved for PA FBoard
5. 12/02/22 9:54 am
Natalie Phelan
(nataliephelan):
Approved for PRE
SCCASP
6. 12/21/22 10:03 am
Natalie Phelan
(nataliephelan): Rollback
to PRE SCCASP for
SCCASP
7. 12/21/22 10:04 am
Natalie Phelan
(nataliephelan): Rollback
to Initiator

8. 01/10/23 1:28 pm
Achim Hurrelmann
(achimhurrelmann):
Approved for PSCI
ChairDir UG
9. 01/10/23 1:32 pm
David Mendeloff
(davidmendeloff):
Approved for PA Dean
10. 01/10/23 2:54 pm
David Mendeloff
(davidmendeloff):
Approved for PA FCC
11. 01/10/23 2:57 pm
David Mendeloff
(davidmendeloff):
Approved for PA FBoard
12. 02/02/23 2:10 pm
Natalie Phelan
(nataliephelan):
Approved for PRE
SCCASP

History

1. Mar 20, 2014 by sandra
2. Mar 5, 2015 by Paula Whissell (paulawhissell)
3. Jan 4, 2018 by Sandy Herbert (sandyherbert)
4. Jul 25, 2022 by Natalie Phelan (nataliephelan)

Calendar Pages Using this Program [Political Science](#)

Effective Date	2024-25
Workflow	majormod
Program Code	HBA-AE3
Level	Undergraduate
Faculty	Faculty of Public Affairs
Academic Unit	Department of Political Science
Degree	Bachelor of Arts Honours
Title	Political Science Concentration in Comparative Politics and Area Studies (Global North)

Program Requirements

Concentration in Comparative Politics and Area Studies (Global North) (3.5 credits)

1. 1.0 credit in:	1.0
PSCI 2101 [0.5] Comparative Politics of the Global North	
PSCI 2102 [0.5] Comparative Politics of the Global South	
2. 2.5 credits in Comparative Politics and Area Studies (Global North), including at least 0.5 credit at the 4000-level, for students in honours or combined honours programs, chosen from:	2.5
PSCI 2200 [0.5] Introduction to U.S. Politics	
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 3206 [0.5] European Democracies	
PSCI 3207 [0.5] The Government and Politics of European Integration	
PSCI 3208 [0.5] Politics in Russia and Ukraine: Power and Contestation	
PSCI 3209 [0.5] Reconstruction and Transformation in Europe and Eurasia	
PSCI 3405 [0.5] Comparative Public Policy Analysis	
PSCI 3406 [0.5] Public Affairs and Media Strategies	
PSCI 3407 [0.5] Public Opinion and Public Policy	
PSCI 3703 [0.5] Governing the Global Economy	
PSCI 3801 [0.5] Environmental Politics	
PSCI 3805 [0.5] Politics of Race	
PSCI 4003 [0.5] Politics and the Media	
PSCI 4103 [0.5] The Modern State	
PSCI 4204 [0.5] Elections	
PSCI 4206 [0.5] Indigenous Politics of North America	
PSCI 4209 [0.5] Westminster Democracies: Parliaments, Parties and Elections	
PSCI 4303 [0.5] Governmentality and Politics	
PSCI 4403 [0.5] Reproductive Rights Policy in North America	
PSCI 4404 [0.5] The Design and Evolution of Public Institutions	
PSCI 4500 [0.5] Gender and Globalization	
PSCI 4501 [0.5] Politics of Identity in Europe and the Russian Area	
PSCI 4502 [0.5] Post-Soviet States and Societies	
PSCI 4505 [0.5] Transitions to Democracy	
PSCI 4506 [0.5] Women and Politics in North America	
PSCI 4601 [0.5] Foreign Policies of Soviet Successor States	
PSCI 4606 [0.5] American Foreign Policy	
PSCI 4607 [0.5] Politics of North America	
PSCI 4608 [0.5] European Integration and European Security	
PSCI 4609 [0.5] Selected Topics in European Integration Studies	
PSCI 4807 [0.5] Politics of Citizenship and Migration	
PSCI 4908 [1.0] Honours Research Essay (with Departmental approval, for qualified Honours students on an accepted Comparative Politics (Global North) theme)	

Total Credits

3.5

New Resources

Summary	Of previously eight program concentrations, we are revising three and deleting the other five.
Rationale for change	<p>Several concentrations are undersubscribed – enrolments are low and very few students have graduated with these concentrations over the past decade. Of students graduating with a concentration in Political Science between 2012-2021, over 90% were in three of the eight areas. Overall undergraduate enrolment in Political Science has fallen during this same period, along with teaching and faculty resources. As a result, the department can neither justify nor feasibly offer the full breadth of courses in all concentrations on a regular basis. We have revised the three concentrations with the greatest enrolments by adding complementary courses and themes from the concentrations we are eliminating. This ensures students are still able to pursue specialized studies in a wide range of topic areas that are consistent with disciplinary fields and the expertise of faculty. The revised concentrations have a broader range of elective courses, which ensures that students have both choice and flexibility in selecting courses that cohere with their interests and schedules. At the same time, increasing the number of credits required for the concentration from 3.5 to 4.0 ensures that students attain sufficient depth of knowledge in their selected area.</p>
Transition/Implementation	Messaging will be sent out and departmental support will be given to current students who COPE into any new Concentrations.

Program reviewer comments	<p>nataliephelan (12/21/22 10:03 am): Rollback: As discussed with David Mendeloff, please resubmit with 24-25 effective date.</p> <p>nataliephelan (12/21/22 10:04 am): Rollback: As discussed with David Mendeloff, please resubmit with 24-25 effective date.</p> <p>davidmendeloff (01/10/23 2:54 pm): Deletion already approved by PA FCC (21-10-2022) and PA FBoard (28-11-2022) for 2023-24 calendar. Upon review at SCCASP and on advice of Admissions, dept is resubmitting for 2024-25 calendar.</p>
---------------------------	--

Key: 621

Program Change Request

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 01/10/23 1:09 pm

Viewing: **HBA-AE4 : Political Science Concentration in Comparative Politics and Area Studies (Global South)**

Last approved: 01/13/16 11:17 am

Last edit: 01/10/23 1:09 pm

Last modified by: amypapineau

Changes proposed by: amypapineau

In Workflow

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

Approval Path

1. 10/11/22 11:31 am
Achim Hurrelmann
(achimhurrelmann):
Approved for PSCI
ChairDir UG
2. 10/11/22 11:42 am
David Mendeloff
(davidmendeloff):
Approved for PA Dean
3. 10/21/22 1:48 pm
David Mendeloff
(davidmendeloff):
Approved for PA FCC
4. 11/28/22 10:30 am
David Mendeloff
(davidmendeloff):
Approved for PA FBoard
5. 12/02/22 9:54 am
Natalie Phelan
(nataliephelan):
Approved for PRE
SCCASP
6. 12/21/22 10:03 am
Natalie Phelan
(nataliephelan): Rollback
to Initiator
7. 01/10/23 1:29 pm
Achim Hurrelmann
(achimhurrelmann):
Approved for PSCI
ChairDir UG

8. 01/10/23 1:32 pm
David Mendeloff
(davidmendeloff):
Approved for PA Dean
9. 01/10/23 2:54 pm
David Mendeloff
(davidmendeloff):
Approved for PA FCC
10. 01/10/23 2:57 pm
David Mendeloff
(davidmendeloff):
Approved for PA FBoard
11. 02/02/23 2:10 pm
Natalie Phelan
(nataliephelan):
Approved for PRE
SCCASP

History

1. Mar 20, 2014 by sandra
2. Mar 5, 2015 by Paula Whissell (paulawhissell)
3. Jan 13, 2016 by Sandy Herbert (sandyherbert)

Calendar Pages Using this Program [Political Science](#)

Effective Date	2024-25
Workflow	majormod
Program Code	HBA-AE4
Level	Undergraduate
Faculty	Faculty of Public Affairs
Academic Unit	Department of Political Science
Degree	Bachelor of Arts Honours
Title	Political Science Concentration in Comparative Politics and Area Studies (Global South)

Program Requirements

Concentration in Comparative Politics and Area Studies (Global South) (3.5 credits)

1. 1.0 credit in:

[PSCI 2101](#) [0.5] Comparative Politics of the Global North

1.0

PSCI 2102 [0.5] Comparative Politics of the Global South

2. 2.5 credits in Comparative Politics and Area Studies (Global South), including at least 0.5 credit at the 4000-level, for students in honours or combined honours programs, chosen from: 2.5

PSCI 3100 [0.5] Politics of Development in Africa

PSCI 3101 [0.5] Politics of War in Africa

PSCI 3102 [0.5] Politics of Development of China

PSCI 3103 [0.5] State, Society and Economy in Northeast Asia

PSCI 3105 [0.5] Imperialism

PSCI 3203 [0.5] Government and Politics in the Middle East

PSCI 3204 [0.5] Politics of Latin America

PSCI 3205 [0.5] Mexican Politics

PSCI 3302 [0.0] **Course PSCI 3302 Not Found**

PSCI 3502 [0.5] Gender and Politics: Global South

PSCI 3700 [0.5] Government and Politics of South Asia

PSCI 3805 [0.5] Politics of Race (remove PSCI 3701 - course deleted)

PSCI 4104 [0.5] Development in the Global South - Theory and Practice

PSCI 4105 [0.5] Selected Problems in Development in the Global South

PSCI 4203 [0.5] Southern Africa After Apartheid

PSCI 4207 [0.5] Globalization, Adjustment and Democracy in Africa

PSCI 4302 [0.5] Political Thought in the Modern Muslim Middle East

PSCI 4303 [0.5] Governmentality and Politics

PSCI 4404 [0.5] The Design and Evolution of Public Institutions

PSCI 4409 [0.5] Issues in Development Management

PSCI 4503 [0.5] Politics of Central Eurasia

PSCI 4504 [0.5] Politics of the Caucasus and Caspian Basin

PSCI 4505 [0.5] Transitions to Democracy

PSCI 4802 [0.0] **Course PSCI 4802 Not Found**

PSCI 4803 [0.5] Foreign Policies of Major East Asian Powers

PSCI 4807 [0.5] Politics of Citizenship and Migration

PSCI 4817 [0.5] International Politics of Forced Migration

PSCI 4819 [0.5] Latin America and the World

PSCI 4908 [1.0] Honours Research Essay (with Departmental approval, for qualified Honours students on an accepted Comparative Politics and Area Studies (Global South) theme)

Total Credits

3.5

New Resources

Summary

Of previously eight program concentrations, we are revising three and deleting the other five.

Rationale for change

Several concentrations are undersubscribed – enrolments are low and very few students have graduated with these concentrations over the past decade. Of students graduating with a concentration in Political Science between 2012-2021, over 90% were in three of the eight areas. Overall undergraduate enrolment in Political Science has fallen during this same period, along with teaching and faculty resources. As a result, the department can neither justify nor feasibly offer the full breadth of courses in all concentrations on a regular basis. We have revised the three concentrations with the greatest enrolments by adding complementary courses and themes from the concentrations we are eliminating. This ensures students are still able to pursue specialized studies in a wide range of topic areas that are consistent with disciplinary fields and the expertise of faculty. The revised concentrations have a broader range of elective courses, which ensures that students have

both choice and flexibility in selecting courses that cohere with their interests and schedules. At the same time, increasing the number of credits required for the concentration from 3.5 to 4.0 ensures that students attain sufficient depth of knowledge in their selected area.

Transition/Implementation Messaging will be sent out and departmental support will be given to current students who COPE into any new Concentrations.

Program reviewer comments **nataliephelan (12/21/22 10:03 am):** Rollback: As discussed with David Mendeloff, please resubmit with 24-25 effective date.
davidmendeloff (01/10/23 2:54 pm): Deletion already approved by PA FCC (21-10-2022) and PA FBoard (28-11-2022) for 2023-24 calendar. Upon review at SCCASP and on advice of Admissions, dept is resubmitting for 2024-25 calendar.

Key: 622

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 01/10/23 1:09 pm

Viewing: **HBA-AF1 : Political Science
Concentration in Gender and Politics**

Last approved: 01/04/18 3:22 pm

Last edit: 01/10/23 1:29 pm

Last modified by: achimhurrelmann

[Changes proposed by: amypapineau](#)

In Workflow

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

Approval Path

1. 10/11/22 11:31 am
Achim Hurrelmann
(achimhurrelmann):
Approved for PSCI
ChairDir UG
2. 10/11/22 11:42 am
David Mendeloff
(davidmendeloff):
Approved for PA Dean
3. 10/21/22 1:48 pm
David Mendeloff
(davidmendeloff):
Approved for PA FCC
4. 11/28/22 10:30 am
David Mendeloff
(davidmendeloff):
Approved for PA FBoard
5. 12/02/22 9:56 am
Natalie Phelan
(nataliephelan):
Approved for PRE
SCCASP
6. 12/21/22 10:03 am
Natalie Phelan
(nataliephelan): Rollback
to Initiator
7. 01/10/23 1:29 pm
Achim Hurrelmann
(achimhurrelmann):
Approved for PSCI
ChairDir UG
8. 01/10/23 1:32 pm
David Mendeloff

- (davidmendeloff):
Approved for PA Dean
9. 01/10/23 2:54 pm
David Mendeloff
(davidmendeloff):
Approved for PA FCC
10. 01/10/23 2:57 pm
David Mendeloff
(davidmendeloff):
Approved for PA FBoard
11. 02/02/23 2:10 pm
Natalie Phelan
(nataliephelan):
Approved for PRE
SCCASP

History

1. Mar 20, 2014 by sandra
2. Apr 23, 2015 by sandra
3. Jan 4, 2018 by Sandy Herbert (sandyherbert)

Calendar Pages Using this Program [Political Science](#)

Effective Date	2024-25
Workflow	majormod minormod
Program Code	HBA-AF1
Level	Undergraduate
Faculty	Faculty of Public Affairs
Academic Unit	Department of Political Science
Degree	Bachelor of Arts Honours
Title	Political Science Concentration in Gender and Politics

Program Requirements

Concentration in Gender and Politics (3.5 credits)

1. **0.5 credit in:** [PSCI 2500](#) [0.5] Gender and Politics 0.5
2. **1.5 credits in** Gender and Politics core courses, including at least 0.5 credit at the 4000-level for students in honours or combined honours, chosen from: 1.5

- [PSCI 3303](#) [0.5] Feminist Political Theory
- [PSCI 3502](#) [0.5] Gender and Politics: Global South
- [PSCI 4403](#) [0.5] Reproductive Rights Policy in North America
- [PSCI 4500](#) [0.5] Gender and Globalization
- [PSCI 4501](#) [0.5] Politics of Identity in Europe and the Russian Area
- [PSCI 4506](#) [0.5] Women and Politics in North America
- [PSCI 4605](#) [0.5] Gender in International Relations
- [PSCI 4908](#) [1.0] Honours Research Essay (with Departmental approval, for qualified Honours students on an accepted Gender and Politics theme)

3. **1.5 credits in** Gender and Politics core and related courses, chosen from the list above, or the following: 1.5

- [PSCI 3006](#) [0.5] Social Power in Canadian Politics
- [PSCI 3108](#) [0.5] Politics of Popular Culture
- [PSCI 3109](#) [0.5] The Politics of Law and Morality
- [PSCI 3307](#) [0.5] Politics of Human Rights

Total Credits 3.5

New Resources

Summary Of previously eight program concentrations, we are revising three and deleting the other five.

Rationale for change Several concentrations are undersubscribed – enrolments are low and very few students have graduated with these concentrations over the past decade. Of students graduating with a concentration in Political Science between 2012-2021, over 90% were in three of the eight areas. Overall undergraduate enrolment in Political Science has fallen during this same period, along with teaching and faculty resources. As a result, the department can neither justify nor feasibly offer the full breadth of courses in all concentrations on a regular basis. We have revised the three concentrations with the greatest enrolments by adding complementary courses and themes from the concentrations we are eliminating. This ensures students are still able to pursue specialized studies in a wide range of topic areas that are consistent with disciplinary fields and the expertise of faculty. The revised concentrations have a broader range of elective courses, which ensures that students have both choice and flexibility in selecting courses that cohere with their interests and schedules. At the same time, increasing the number of credits required for the concentration from 3.5 to 4.0 ensures that students attain sufficient depth of knowledge in their selected area.

Transition/Implementation Messaging will be sent out and departmental support will be given to current students who COPE into any new Concentrations.

Program reviewer comments **nataliephelan (12/21/22 10:03 am):** Rollback: As discussed with David Mendeloff, please resubmit with 24-25 effective date.
davidmendeloff (01/10/23 2:54 pm): Deletion already approved by PA FCC (21-10-2022) and PA FBoard (28-11-2022) for 2023-24 calendar. Upon review at SCCASP and on advice of Admissions, dept is resubmitting for 2024-25 calendar.

Key: 623

Program Change Request

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 01/17/23 11:56 am

Viewing: **HBA-AF : Political Science
Concentration in International Relations**

Last approved: 01/04/18 3:21 pm

Last edit: 01/17/23 12:03 pm

Last modified by: achimhurrelmann

Changes proposed by: amypapineau

In Workflow

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

Approval Path

1. 01/17/23 12:03 pm
Achim Hurrelmann
(achimhurrelmann):
Approved for PSCI
ChairDir UG
2. 01/17/23 12:05 pm
David Mendeloff
(davidmendeloff):
Approved for PA Dean
3. 01/17/23 12:06 pm
David Mendeloff
(davidmendeloff):
Approved for PA FCC
4. 01/17/23 12:07 pm
David Mendeloff
(davidmendeloff):
Approved for PA FBoard
5. 02/02/23 2:10 pm
Natalie Phelan
(nataliephelan):
Approved for PRE
SCCASP

History

1. Mar 20, 2014 by sandra
2. Mar 5, 2015 by Paula
Whissell (paulawhissell)

3. Sep 22, 2015 by Sandra Bauer (sandrabauer)
4. Jan 13, 2016 by Sandy Herbert (sandyherbert)
5. Jan 4, 2018 by Sandy Herbert (sandyherbert)

Calendar Pages Using this Program [Political Science](#)

Effective Date	2024-25
Workflow	majormod
Program Code	HBA-AF
Level	Undergraduate
Faculty	Faculty of Public Affairs
Academic Unit	Department of Political Science
Degree	Bachelor of Arts Honours
Title	Political Science Concentration in International Relations

Program Requirements

Concentration in International Relations (3.5 credits)

1. **1.0 credit in:** 1.0
 - [PSCI 2601](#) [0.5] International Relations: Global Politics
 - [PSCI 2602](#) [0.5] International Relations: Global Political Economy
2. **2.5 credits in** International Relations, including at least 0.5 credit at the 4000-level, for students in honours or combined honours programs, chosen from: 2.5
 - [PSCI 3101](#) [0.5] Politics of War in Africa
 - [PSCI 3105](#) [0.5] Imperialism
 - [PSCI 3107](#) [0.5] The Causes of War
 - [PSCI 3207](#) [0.5] The Government and Politics of European Integration
 - [PSCI 3307](#) [0.5] Politics of Human Rights
 - [PSCI 3600](#) [0.5] International Institutions
 - [PSCI 3601](#) [0.5] Theories of International Politics
 - [PSCI 3603](#) [0.5] Strategic Thought and International Security
 - [PSCI 3606](#) [0.5] Canadian Foreign Policy
 - [PSCI 3607](#) [0.5] North American Security and Defence Policy
 - [PSCI 3702](#) [0.5] Israeli-Palestinian Relations
 - [PSCI 3703](#) [0.5] Governing the Global Economy
 - [PSCI 3801](#) [0.5] Environmental Politics
 - [PSCI 3802](#) [0.5] Globalization and Human Rights

PSCI 4303	[0.5]	Governmentality and Politics
PSCI 4500	[0.5]	Gender and Globalization
PSCI 4601	[0.5]	Foreign Policies of Soviet Successor States
PSCI 4603	[0.5]	Analysis of International Political Economy
PSCI 4604	[0.5]	Selected Problems in International Political Economy
PSCI 4605	[0.5]	Gender in International Relations
PSCI 4606	[0.5]	American Foreign Policy
PSCI 4607	[0.5]	Politics of North America
PSCI 4608	[0.5]	European Integration and European Security
PSCI 4609	[0.5]	Selected Topics in European Integration Studies
PSCI 4800	[0.5]	Advanced International Relations Theory
PSCI 4801	[0.5]	Selected Problems in Global Politics
PSCI 4802	[0.0]	Course PSCI 4802 Not Found
PSCI 4803	[0.5]	Foreign Policies of Major East Asian Powers
PSCI 4805	[0.5]	Political Economy of Global Money and Finance
PSCI 4806	[0.5]	Transatlantic Security Issues
PSCI 4807	[0.5]	Politics of Citizenship and Migration
PSCI 4808	[0.5]	Global Environmental Politics
PSCI 4817	[0.5]	International Politics of Forced Migration
PSCI 4819	[0.5]	Latin America and the World
PSCI 4908	[1.0]	Honours Research Essay (with Departmental approval, for qualified Honours students on an accepted International Relations theme)

Total Credits

3.5

New Resources

Summary

Remove old concentration to make way for the new one.

Rationale for change

Several concentrations are undersubscribed – enrolments are low and very few students have graduated with these concentrations over the past decade. Of students graduating with a concentration in Political Science between 2012-2021, over 90% were in three of the eight areas. Overall undergraduate enrolment in Political Science has fallen during this same period, along with teaching and faculty resources. As a result, the department can neither justify nor feasibly offer the full breadth of courses in all concentrations on a regular basis. We have revised the three concentrations with the greatest enrolments by adding complementary courses and themes from the concentrations we are eliminating. This ensures students are still able to pursue specialized studies in a wide range of topic areas that are consistent with disciplinary fields and the expertise of faculty. The revised concentrations have a broader range of elective courses, which ensures that students have both choice and flexibility in selecting courses that cohere with their interests and schedules. At the same time, increasing the number of credits required for the concentration from 3.5 to 4.0 ensures that students attain sufficient depth of knowledge in their selected area.

Transition/Implementation

Messaging will be sent out to students about this change.

Program reviewer comments

Key: 624

Program Change Request

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 01/10/23 1:09 pm

Viewing: **HBA-AP1 : Political Science
Concentration in North American Politics**

Last approved: 04/19/22 8:00 am

Last edit: 01/10/23 1:09 pm

Last modified by: amypapineau

Changes proposed by: amypapineau

In Workflow

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

Approval Path

1. 10/11/22 11:33 am
Achim Hurrelmann
(achimhurrelmann):
Approved for PSCI
ChairDir UG
2. 10/11/22 11:42 am
David Mendeloff
(davidmendeloff):
Approved for PA Dean
3. 10/21/22 1:48 pm
David Mendeloff
(davidmendeloff):
Approved for PA FCC
4. 11/28/22 10:30 am
David Mendeloff
(davidmendeloff):
Approved for PA FBoard
5. 12/02/22 9:56 am
Natalie Phelan
(nataliephelan):
Approved for PRE
SCCASP
6. 12/21/22 10:03 am
Natalie Phelan
(nataliephelan): Rollback
to Initiator
7. 01/10/23 1:29 pm
Achim Hurrelmann
(achimhurrelmann):
Approved for PSCI
ChairDir UG

8. 01/10/23 1:32 pm
David Mendeloff
(davidmendeloff):
Approved for PA Dean
9. 01/10/23 2:54 pm
David Mendeloff
(davidmendeloff):
Approved for PA FCC
10. 01/10/23 2:57 pm
David Mendeloff
(davidmendeloff):
Approved for PA FBoard
11. 02/02/23 2:10 pm
Natalie Phelan
(nataliephelan):
Approved for PRE
SCCASP

History

1. Mar 20, 2014 by sandra
2. Jan 4, 2018 by Sandy Herbert (sandyherbert)
3. Apr 19, 2022 by Darlene Moss (darlenemoss)

Calendar Pages Using this Program [Political Science](#)

Effective Date	2024-25
Workflow	majormod
Program Code	HBA-AP1
Level	Undergraduate
Faculty	Faculty of Public Affairs
Academic Unit	Department of Political Science
Degree	Bachelor of Arts Honours
Title	Political Science Concentration in North American Politics

Program Requirements

Concentration in North American Politics (3.5 credits)

1. 1.0 credit in:

[PSCI 2200](#) [0.5]

Introduction to U.S. Politics

1.0

and

[PSCI 2002](#) [0.5] Canadian Politics and Civil Society

or [PSCI 2003](#) [0.5] Canadian Political Institutions

2. 0.5 credit in United States politics from: 0.5

[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 3210](#) [0.5] Electoral Politics in the U.S.

[PSCI 3406](#) [0.5] Public Affairs and Media Strategies

[PSCI 3407](#) [0.5] Public Opinion and Public Policy

[PSCI 4003](#) [0.5] Politics and the Media

[PSCI 4606](#) [0.5] American Foreign Policy

3. 0.5 credit in Canadian politics from: 0.5

[PSCI 3000](#) [0.5] Canadian Provincial Politics

[PSCI 3004](#) [0.5] Political Parties and Elections in Canada

[PSCI 3005](#) [0.5] Ontario Government and Politics

[PSCI 3006](#) [0.5] Social Power in Canadian Politics

[PSCI 3007](#) [0.5] Constitutional Politics in Canada

[PSCI 3108](#) [0.5] Politics of Popular Culture

[PSCI 3109](#) [0.5] The Politics of Law and Morality

[PSCI 3401](#) [0.5] Canadian Public Administration

[PSCI 3402](#) [0.5] Canadian Public Policy

[PSCI 3406](#) [0.5] Public Affairs and Media Strategies

[PSCI 3407](#) [0.5] Public Opinion and Public Policy

[PSCI 3606](#) [0.5] Canadian Foreign Policy

[PSCI 4003](#) [0.5] Politics and the Media

[PSCI 4005](#) [0.5] Canadian Federalism

[PSCI 4006](#) [0.5] Legislatures and Representation in Canada

[PSCI 4008](#) [0.5] National Security and Intelligence in the Modern State

[PSCI 4009](#) [0.5] Quebec Politics

[PSCI 4107](#) [0.5] Political Participation in Canada

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

4. 0.5 credit in: 0.5

[PSCI 3204](#) [0.5] Politics of Latin America

or [PSCI 3205](#) [0.5] Mexican Politics

5. 1.0 credit in North American politics, from: 1.0

[PSCI 3109](#) [0.5] The Politics of Law and Morality

[PSCI 3607](#) [0.5] North American Security and Defence Policy

[PSCI 4206](#) [0.5] Indigenous Politics of North America

[PSCI 4403](#) [0.5] Reproductive Rights Policy in North America

[PSCI 4506](#) [0.5] Women and Politics in North America

[PSCI 4607](#) [0.5] Politics of North America

[PSCI 4905](#) [0.5] Washington Center Seminar I

[PSCI 4906](#) [0.5] Washington Center Seminar II

6. For students in honours or combined honours programs, at least 0.5 credit must be at the 4000-level. With Departmental approval, qualified Honours students may substitute [PSCI 4908](#) [1.0], on an accepted North American politics theme, for two elective courses chosen from Items 2, 3 or 4.

Total Credits

3.5

New Resources

Summary

Of previously eight program concentrations, we are revising three and deleting the other five.

Rationale for change

Several concentrations are undersubscribed – enrolments are low and very few students have graduated with these concentrations over the past decade. Of students graduating with a concentration in Political Science between 2012-2021, over 90% were in three of the eight areas. Overall undergraduate enrolment in Political Science has fallen during this same period, along with teaching and faculty resources. As a result, the department can neither justify nor feasibly offer the full breadth of courses in all concentrations on a regular basis. We have revised the three concentrations with the greatest enrolments by adding complementary courses and themes from the concentrations we are eliminating. This ensures students are still able to pursue specialized studies in a wide range of topic areas that are consistent with disciplinary fields and the expertise of faculty. The revised concentrations have a broader range of elective courses, which ensures that students have both choice and flexibility in selecting courses that cohere with their interests and schedules. At the same time, increasing the number of credits required for the concentration from 3.5 to 4.0 ensures that students attain sufficient depth of knowledge in their selected area.

Transition/Implementation

Messaging will be sent out to students currently enrolled in the concentration, and departmental support will be provided to students who wish to COPE into one of the new concentrations.

Program reviewer comments

nataliephelan (12/21/22 10:03 am): Rollback: As discussed with David Mendeloff, please resubmit with 24-25 effective date.

davidmendeloff (01/10/23 2:54 pm): Deletion already approved by PA FCC (21-10-2022) and PA FBoard (28-11-2022) for 2023-24 calendar. Upon review at SCCASP and on advice of Admissions, dept is resubmitting for 2024-25 calendar.

Key: 625

Program Change Request

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 01/17/23 11:57 am

Viewing: **HBA-AG : Political Science
Concentration in Political Theory**

Last approved: 01/13/16 11:36 am

Last edit: 01/17/23 12:03 pm

Last modified by: achimhurrelmann

Changes proposed by: amypapineau

In Workflow

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

Approval Path

1. 01/17/23 12:03 pm
Achim Hurrelmann
(achimhurrelmann):
Approved for PSCI
ChairDir UG
2. 01/17/23 12:05 pm
David Mendeloff
(davidmendeloff):
Approved for PA Dean
3. 01/17/23 12:06 pm
David Mendeloff
(davidmendeloff):
Approved for PA FCC
4. 01/17/23 12:07 pm
David Mendeloff
(davidmendeloff):
Approved for PA FBoard
5. 02/02/23 2:10 pm
Natalie Phelan
(nataliephelan):
Approved for PRE
SCCASP

History

1. Mar 20, 2014 by sandra
2. Mar 5, 2015 by Paula
Whissell (paulawhissell)
3. Apr 23, 2015 by sandra

Calendar Pages Using this Program [Political Science](#)

Effective Date	2024-25
Workflow	majormod
Program Code	HBA-AG
Level	Undergraduate
Faculty	Faculty of Public Affairs
Academic Unit	Department of Political Science
Degree	Bachelor of Arts Honours
Title	Political Science Concentration in Political Theory

Program Requirements

Concentration in Political Theory (3.5 credits)

1. 1.0 credit in:		1.0
PSCI 2301 [0.5]	History of Political Thought I	
PSCI 2302 [0.5]	History of Political Thought II	
2. 2.5 credits in Political Theory, including at least 0.5 credit at the 4000-level for students in honours or combined honours, chosen from:		2.5
PSCI 3300 [0.5]	Politics and Literature	
PSCI 3302 [0.0]	Course PSCI 3302 Not Found	
PSCI 3303 [0.5]	Feminist Political Theory	
PSCI 3307 [0.5]	Politics of Human Rights	
PSCI 3308 [0.5]	Modern Political Thought	
PSCI 3309 [0.5]	Modern Ideologies	
PSCI 3311 [0.5]	History of Muslim Political Thought	
PSCI 3312 [0.5]	Enlightenment Political Thought	
PSCI 3709 [0.5]	Ancient and Medieval Political Thought	
PSCI 4302 [0.5]	Political Thought in the Modern Muslim Middle East	
PSCI 4303 [0.5]	Governmentality and Politics	
PSCI 4308 [0.5]	History of Political Enquiry	
PSCI 4309 [0.5]	Contemporary Approaches to Political Enquiry	
PSCI 4311 [0.5]	Political Theories of Democracy and Empire I	
PSCI 4312 [0.5]	Political Theories of Democracy and Empire II	
PSCI 4316 [0.5]	Contemporary Political Theory I	
PSCI 4317 [0.5]	Contemporary Political Theory II	

[PSCI 4318](#) [0.5]

Concepts of Political Community I

[PSCI 4319](#) [0.5]

Concepts of Political Community II

[PSCI 4908](#) [1.0]

Honours Research Essay

Total Credits

3.5

New Resources

Summary

Remove old concentration to make way for the new one.

Rationale for change

Several concentrations are undersubscribed – enrolments are low and very few students have graduated with these concentrations over the past decade. Of students graduating with a concentration in Political Science between 2012-2021, over 90% were in three of the eight areas. Overall undergraduate enrolment in Political Science has fallen during this same period, along with teaching and faculty resources. As a result, the department can neither justify nor feasibly offer the full breadth of courses in all concentrations on a regular basis. We have revised the three concentrations with the greatest enrolments by adding complementary courses and themes from the concentrations we are eliminating. This ensures students are still able to pursue specialized studies in a wide range of topic areas that are consistent with disciplinary fields and the expertise of faculty. The revised concentrations have a broader range of elective courses, which ensures that students have both choice and flexibility in selecting courses that cohere with their interests and schedules. At the same time, increasing the number of credits required for the concentration from 3.5 to 4.0 ensures that students attain sufficient depth of knowledge in their selected area.

Transition/Implementation

Messaging will be sent out to students about this change.

Program reviewer
comments

Key: 626

Program Change Request

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 01/10/23 1:10 pm

Viewing: **HBA-AH : Political Science
Concentration in Public Affairs and Policy
Analysis**

Last approved: 07/25/22 4:01 pm

Last edit: 01/10/23 1:10 pm

Last modified by: amypapineau

Changes proposed by: amypapineau

In Workflow

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

Approval Path

1. 10/11/22 11:28 am
Achim Hurrelmann
(achimhurrelmann):
Approved for PSCI
ChairDir UG
2. 10/11/22 11:42 am
David Mendeloff
(davidmendeloff):
Approved for PA Dean
3. 10/21/22 1:48 pm
David Mendeloff
(davidmendeloff):
Approved for PA FCC
4. 11/28/22 10:30 am
David Mendeloff
(davidmendeloff):
Approved for PA FBoard
5. 12/02/22 9:54 am
Natalie Phelan
(nataliephelan):
Approved for PRE
SCCASP
6. 12/21/22 10:03 am
Natalie Phelan
(nataliephelan): Rollback
to Initiator
7. 01/10/23 1:29 pm
Achim Hurrelmann
(achimhurrelmann):
Approved for PSCI
ChairDir UG

8. 01/10/23 1:32 pm
David Mendeloff
(davidmendeloff):
Approved for PA Dean
9. 01/10/23 2:55 pm
David Mendeloff
(davidmendeloff):
Approved for PA FCC
10. 01/10/23 2:57 pm
David Mendeloff
(davidmendeloff):
Approved for PA FBoard
11. 02/02/23 2:10 pm
Natalie Phelan
(nataliephelan):
Approved for PRE
SCCASP

History

1. Mar 20, 2014 by sandra
2. May 1, 2014 by sandra
3. Mar 5, 2015 by Paula Whissell (paulawhissell)
4. Feb 3, 2016 by Sandy Herbert (sandyherbert)
5. Jan 4, 2018 by Sandy Herbert (sandyherbert)
6. Jul 25, 2022 by Natalie Phelan (nataliephelan)

Calendar Pages Using this Program [Political Science](#)

Effective Date	2024-25
Workflow	majormod
Program Code	HBA-AH
Level	Undergraduate
Faculty	Faculty of Public Affairs
Academic Unit	Department of Political Science
Degree	Bachelor of Arts Honours
Title	Political Science Concentration in Public Affairs and Policy Analysis

Program Requirements

Concentration in Public Affairs and Policy Analysis (3.5 credits)

1. 0.5 credit in:	0.5
PSCI 2401 [0.5] Public Affairs Analysis	
2. 3.0 credits in Public Affairs and Policy Analysis, including at least 0.5 credit at the 4000-level, for students in honours and combined honours programs, chosen from:	3.0
PSCI 3401 [0.5] Canadian Public Administration	
PSCI 3402 [0.5] Canadian Public Policy	
PSCI 3405 [0.5] Comparative Public Policy Analysis	
PSCI 3406 [0.5] Public Affairs and Media Strategies	
PSCI 3407 [0.5] Public Opinion and Public Policy	
PSCI 3801 [0.5] Environmental Politics	
PSCI 4003 [0.5] Politics and the Media	
PSCI 4005 [0.5] Canadian Federalism	
PSCI 4008 [0.5] National Security and Intelligence in the Modern State	
PSCI 4107 [0.5] Political Participation in Canada	
PSCI 4204 [0.5] Elections	
PSCI 4400 [0.5] Socio-Technical Change and Public Policy Design	
PSCI 4403 [0.5] Reproductive Rights Policy in North America	
PSCI 4404 [0.5] The Design and Evolution of Public Institutions	
PSCI 4407 [0.5] Public Policy: Content and Creation	
PSCI 4408 [0.5] Public Affairs Management and Analysis	
PSCI 4409 [0.5] Issues in Development Management	
PSCI 4506 [0.5] Women and Politics in North America	
PSCI 4701 [0.5] Intermediate Polimetrics for Micro Data (Remove 4602 - no longer offered)	
PSCI 4702 [0.5] Intermediate Research Methods for Applied Political Science	
PSCI 4808 [0.5] Global Environmental Politics	
PSCI 4908 [1.0] Honours Research Essay (satisfies two of six requirements, with Departmental approval, for qualified Honours students on an accepted Public Affairs and Policy Analysis theme)	
Total Credits	3.5

New Resources

Summary	Of previously eight program concentrations, we are revising three and deleting the other five.
Rationale for change	<p>Several concentrations are undersubscribed – enrolments are low and very few students have graduated with these concentrations over the past decade. Of students graduating with a concentration in Political Science between 2012-2021, over 90% were in three of the eight areas. Overall undergraduate enrolment in Political Science has fallen during this same period, along with teaching and faculty resources. As a result, the department can neither justify nor feasibly offer the full breadth of courses in all concentrations on a regular basis. We have revised the three concentrations with the greatest enrolments by adding complementary courses and themes from the concentrations we are eliminating. This ensures students are still able to pursue specialized studies in a wide range of topic areas that are consistent with disciplinary fields and the expertise of faculty. The revised concentrations have a broader range of elective courses, which ensures that students have both choice and flexibility in selecting courses that cohere with their interests and schedules. At the same time, increasing the number of credits required for the concentration from 3.5 to 4.0 ensures that students attain sufficient depth of knowledge in their selected area.</p>

Transition/Implementation Messaging will be sent out and departmental support will be given to current students who COPE into any new Concentrations.

Program reviewer comments

nataliephelan (12/21/22 10:03 am): Rollback: As discussed with David Mendeloff, please resubmit with 24-25 effective date.

davidmendeloff (01/10/23 2:55 pm): Deletion already approved by PA FCC (21-10-2022) and PA FBoard (28-11-2022) for 2023-24 calendar. Upon review at SCCASP and on advice of Admissions, dept is resubmitting for 2024-25 calendar.

Key: 627

MEMORANDUM

To: Vice-President's Academic and Research Committee (VPARC) for A1s

From: Alexandra Mallett, School of Public Policy and Administration (SPPA),
Faculty of Public Affairs (FPA)

CC:

Brenda O'Neill, Dean, Faculty of Public Affairs (FPA)

Larry Kostiuik, Dean, Faculty of Engineering and Design (FED)

Patrice Smith, Dean, Faculty of Graduate and Post doctoral Affairs (FGPA)

Daniel Siddiqi, Associate Dean (Programs)(FGPA)

Date: October 6, 2022

Subject: Major Modification to the name of the Master of Arts in Sustainable Energy -Track A1

Modification Description

- Currently, the Master's program in Sustainable Energy consists of three degrees in Sustainable Energy. These three degrees include a Master of Arts (MA), a Master of Engineering (M Eng), and a Master of Applied Sciences (MASc). We are proposing to change the name of the **Master of Arts in Sustainable Energy** to **Master of Public Policy in Sustainable Energy and the Environment**.
- The reasoning for the first part of the name change is that the current name doesn't include the word "policy". We are keen to have the word "policy" reflected in the name so that students and employers are aware at the outset that our graduates have a degree in public policy. This change was also recommended by recently graduated students. As currently written, an MA in Sustainable Energy could be any number of degrees. In addition, when we created the degree in 2010, it was an MA, as our larger public policy and administration program was also an MA at the time (MAPA which is now a MPPA).
- The reasoning for the second part of the name change is because the current name does not reflect the full range of policy areas covered in the degree, which highlights interaction between energy and environment. Not only is this emphasis in the core courses, but electives from both engineering and policy such as Indoor Air Quality and Air Pollution Control (from engineering) and Natural Resources Management and Environmental Policy (from policy). As there are now increased offerings at other universities that directly reference "Environment", we would like to highlight this dimension to serve as a more appropriate representation regarding what we are focusing on in our courses and in our research activities.
- Dan Siddiqi confirmed that the MPP is not required to have the same name as the MASc or the M Eng.
- We believe the name change will draw candidates to Carleton that would otherwise go to different post-secondary institutions – an important consideration given the increase in competition in this field both in Canada and elsewhere since the program began in 2010. For

instance, in Canada, competing programs include the University of Ottawa's [Master of Science in Environmental Sustainability](#) and the University of Toronto's [Master of Science in Sustainability Management](#). Competing foreign programs include Oxford University's [Master of Science in Sustainability, Enterprise and the Environment](#) and the University of Sussex's [Master of Science in Sustainable Development](#) (online)).

- There will be no changes to the curriculum nor the description of graduation requirements
- This name change reflects current practice for the (now-former) MA, so despite the change of the name of both the degree and the field, we do not see a need to revise the learning outcomes for the program.
- The School of Public Policy and Administration supports the name change.

Impact on Other Programs

We do not foresee an impact on other programs at Carleton because students who are interested in energy and the environment as they relate to public policy and engineering come to the SERG program if they are pursuing master's level studies at Carleton. For those who wish to pursue environmental issues in other areas (e.g. water quality or human geography), they already go to those respective programs at Carleton (a master's degree in environmental engineering or a master's degree in geography in the above examples).

Societal Need

The SERG Governing Committee recently agreed to change the language on our website to better capture the content of our degree and its importance in the coming decades, which we are in the process of updating:

Environment and climate change represent some of the most difficult problems facing modern society. For two centuries fossil fuels have powered the rise of industrial civilization, bringing increased affluence and improved quality of life. They still provide 80% of the world's energy as well as feedstocks for the manufacture of many products including steel, fertilizers, chemicals and plastics.

Today we understand that our energy systems — heavily reliant on fossil fuels — are having profound effects on our world including driving climate change, increasing pollution and contributing to deforestation, putting our future at risk. The quest to build a prosperous and equitable Canada through various net-zero greenhouse gas (GHG) emissions pathways has emerged as a fundamental task confronting this generation.

The program prepares students to be a part of this crucial process by strengthening their background in the technical and political dimensions of energy issues and decision-making including the environment. Following an interdisciplinary approach, students examine the engineering considerations, the economic implications and the policy instruments that affect the public and private choices around sustainable energy and the environment. By becoming conversant in these domains, students are able to interpret and respond to energy issues holistically and to communicate effectively across disciplinary boundaries.

Sustainable energy is about more than wind turbines, solar panels, pipelines, and carbon pricing. Energy underpins all our major systems of social provisioning (how we move people and freight, build our cities, operate the agri-food system and so much more). It impacts health, employment, welfare, and equity. It

engages with multiple areas of public policy including transport, housing, public health, urban affairs, Indigenous issues, industrial policy, agriculture and food, national security and trade, regional economic development, and taxation.

Our graduates are participants and leaders in organizations and processes that are working towards a net-zero-carbon future. They work as policy analysts for federal, provincial, and municipal governments (e.g. Innovation, Science and Economic Development (ISED), Natural Resources Canada (NRCan) and Environment and Climate Change Canada (ECCC) at the federal level and the City of Toronto and the City of Ottawa at the municipal level) or intergovernmental organizations (e.g. the United Nations Convention on Biodiversity); serve in the government-relations offices within energy companies; work for consultancies (e.g. Quinn and Partners) or non-governmental organizations (NGOs) and think tanks (e.g. Smart Prosperity Institute). Our graduates are seeking ways to make energy systems more efficient and sustainable. Our alumni form a strong professional network across the country and beyond (e.g. a recent graduate is working as a climate and energy analyst at the European Lime Association), providing ongoing learning opportunities and career advantages.

Students

We have heard from MA students over the years that they desire the name ‘policy’ in their degree name so it is apparent to future employers what their degree is in. We have heard from both engineering and policy students that one thing they like about the program is the opportunity to explore topics that have a link to sustainable energy but are broader (e.g. natural resources management and / or science, technology and innovation policy). This speaks to the point made above that energy systems underpin how we function within our societies (e.g. design our cities and towns; move around daily; build our homes; and grow our food). In addition, we have an engineering and policy student representative on our SERG Governing Committee who expressed support for these changes.

Resources

This change does not require additional permanent resources such as space or faculty. The initial transition will require a deployment of Carleton’s administrative resources.

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Program name change from Master of Arts in Sustainable Energy to Master of Public Policy in Sustainable Energy and the Environment

I support this change unconditionally.

I do not support this change.

I support this change, with the following reservations:

Signature *P. Ballamingie*

Name: Patricia Ballamingie

Title: Interim Chair and Professor

Academic unit: Department of Geography & Environmental Studies

Date: October 3, 2022

Notes:

Of the faculty that responded, one strongly opposed the change, but most others supported it.

From: Steven Cooke <Steven.Cooke@carleton.ca>
Subject: RE: Sustainable Energy Master's Program: Proposed Name Change
Date: September 14, 2022 at 10:37:59 AM EDT
To: Ron Miller <Ron.Miller@carleton.ca>, "steven.cooke@carleton.ca" <steven.cooke@carleton.ca>
Cc: Michelle Santoianni <Michelle.Santoianni@carleton.ca>

Thanks... I am not concerned with overlap. Because U Ottawa has the MSc in Environment & Sustainability we have not been doing much re grad program development in that space given they do it very well. IF we were to do anything in that space (MSc through Faculty of Science) it would likely be focused more on something like "Conservation Science and Policy" or the like – really focusing more on the biodiversity and fish/wildlife/plant management side of things.

So – Sure – no issues from us!

Thanks

SJC

Dr. Steven J. Cooke

Director of the Institute of Environmental and Interdisciplinary Science, Carleton University
Cell and Office Phone: 613 867 6711 Website: www.FECPL.ca

Note: Field season is here so anticipate delayed responses. If urgent, call my cell!

From: Ron Miller <Ron.Miller@carleton.ca>
Sent: September 14, 2022 10:32 AM
To: steven.cooke@carleton.ca
Subject: Sustainable Energy Master's Program: Proposed Name Change

Hello Steven,

I am contacting you in your role as the Director of the Institute for Environmental and Interdisciplinary Sciences. The committee that runs the SERG (Sustainable Energy) graduate program is proposing a name change for the degrees (there is an MA, MASc and MEng). Because the proposal is to include the word "Environment", we would like your support, or if that is not possible, we would like to hear your concerns. Other than the name change, there are no other changes planned.

The proposal is attached to explain the changes and the rationale. FGPA has asked that I collect these support letters **by Sept. 30**. Please let me know if that deadline would present any difficulties for you.

Let me know if you have any questions, and thanks for your time.

Ron

Date Submitted: 11/08/22 4:50 pm

Viewing: **MPP-SEV** ~~**MA-SEP**~~ : **M.P.P. Master of Public Policy Sustainable Energy and the Environment** ~~**M.A. Sustainable Energy**~~

Last approved: 03/11/22 2:51 pm

Last edit: 11/09/22 11:43 am

Last modified by: sandrabauer

Changes proposed by: sandrabauer

In Workflow

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

Approval Path

1. 10/24/22 2:15 pm
Jennifer Stewart
(jenniferstewart):
Approved for PADM
ChairDir GR
2. 10/24/22 2:17 pm
Jennifer Stewart
(jenniferstewart):
Approved for SERG
ChairDir GR
3. 11/08/22 4:49 pm
Sandra Bauer
(sandrabauer): Rollback
to Initiator
4. 11/08/22 4:53 pm
Alexandra Mallett
(alexandramallett):
Approved for PADM
ChairDir GR
5. 11/08/22 8:50 pm
Jennifer Stewart
(jenniferstewart):
Approved for SERG
ChairDir GR
6. 11/09/22 9:00 am
Richard Dansereau
(richarddansereau):
Approved for ENG Dean
7. 11/09/22 9:28 am
David Mendeloff
(davidmendeloff):
Approved for PA Dean

- 8. 11/09/22 11:08 am
Sandra Bauer
(sandrabauer): Approved for GRAD Dean
- 9. 11/09/22 11:44 am
Sandra Bauer
(sandrabauer): Approved for PRE GRAD FCC
- 10. 11/22/22 2:46 pm
Sandra Bauer
(sandrabauer): Approved for GRAD FCC
- 11. 12/14/22 9:49 am
Sandra Bauer
(sandrabauer): Approved for GRAD FBoard

History

- 1. May 8, 2017 by Sandra Bauer (sandrabauer)
- 2. May 8, 2017 by Sandra Bauer (sandrabauer)
- 3. May 8, 2017 by Sandra Bauer (sandrabauer)
- 4. Jan 30, 2018 by Calum Carmichael (calumcarmichael)
- 5. Jun 1, 2018 by Mike Labreque (mikelabreque)
- 6. Feb 10, 2020 by Sandra Bauer (sandrabauer)
- 7. Feb 17, 2021 by Heather Moulton (heathermoulton)
- 8. Feb 15, 2022 by Heather Moulton (heathermoulton)
- 9. Mar 11, 2022 by Sandra Bauer (sandrabauer)

Calendar Pages Using this Program [Sustainable Energy](#)

Effective Date	2023-24
Workflow	majormod minormod
Program Code	MPP-SEV MA-SEP
Level	Graduate
Faculty	Faculty of Public Affairs Faculty of Engineering and Design

Academic Unit	Sustainable Energy Program School of Public Policy and Administration
Degree	Master of <u>Public Policy Arts</u>
Title	<u>M.P.P. Master of Public Policy Sustainable Energy and the Environment</u> M.A.Sustainable Energy

Program Requirements

~~Program Requirements~~ M.A. Program Requirements

M.P.P. Sustainable Energy and the Environment (5.0 credits)

M.P.P. Sustainable Energy and the Environment - coursework pathway

1. 1.5 credits in:		1.5
SERG 5002 [0.5]	Sustainable Energy Engineering for Policy Students	
SERG 5003 [0.5]	Energy Evaluation and Assessment Tools	
SERG 5005 [0.5]	Applied Interdisciplinary Project	
2. 0.0 credit in:		0.0
SERG 5800 [0.0]	Sustainable Energy Seminar	
3. 0.5 credit in:		0.5
PADM 5121 [0.5]	Policy Analysis: The Practical Art of Change	
4. 0.5 credit in:		0.5
PADM 5510 [0.5]	Energy Economics	
5. 0.5 credit in:		0.5
PADM 5515 [0.5]	Sustainable Energy Policy	
or PADM 5615 [0.5]	Politics and Policy of Energy in Canada	
6. 2.0 credits from Sustainable Energy Policy courses listed below or other courses as approved by the MA supervisor		2.0
Total Credits		5.0

Requirements - Research essay pathway:

1. 1.5 credits in:		1.5
SERG 5002 [0.5]	Sustainable Energy Engineering for Policy Students	
SERG 5003 [0.5]	Energy Evaluation and Assessment Tools	
SERG 5005 [0.5]	Applied Interdisciplinary Project	
2. 0.0 credit in:		0.0
SERG 5800 [0.0]	Sustainable Energy Seminar	
3. 0.5 credit in:		0.5
PADM 5121 [0.5]	Policy Analysis: The Practical Art of Change	
4. 0.5 credit in:		0.5
PADM 5510 [0.5]	Energy Economics	
5. 0.5 credit in:		0.5
PADM 5515 [0.5]	Sustainable Energy Policy	
or PADM 5615 [0.5]	Politics and Policy of Energy in Canada	
6. 1.0 credits from Sustainable Energy Policy courses listed below or other courses as approved by the MA supervisor		1.0
7. 1.0 credit in:		1.0

<u>PADM 5908</u> [1.0]	Research Essay	
Total Credits		5.0
Requirements - Thesis pathway:		
1. 1.5 credits in:		1.5
<u>SERG 5002</u> [0.5]	Sustainable Energy Engineering for Policy Students	
<u>SERG 5003</u> [0.5]	Energy Evaluation and Assessment Tools	
<u>SERG 5005</u> [0.5]	Applied Interdisciplinary Project	
2. 0.0 credit in:		0.0
<u>SERG 5800</u> [0.0]	Sustainable Energy Seminar	
3. 0.5 credit in:		0.5
<u>PADM 5121</u> [0.5]	Policy Analysis: The Practical Art of Change	
4. 0.5 credit in:		0.5
<u>PADM 5510</u> [0.5]	Energy Economics	
5. 0.5 credit in:		0.5
<u>PADM 5515</u> [0.5]	Sustainable Energy Policy	
or <u>PADM 5615</u> [0.5]	Politics and Policy of Energy in Canada	
6. 2.0 credits in:		2.0
<u>SERG 5909</u> [2.0]	MA Sustainable Energy Thesis	
Total Credits		5.0

Notes:

1. Courses must be appropriate to the student's qualifications and selected with the approval of the student's program supervisor.

New Resources	No New Resources
Summary	Change name to Master of Public Policy - Sustainable Energy and the Environment
Rationale for change	<p>The reasoning for the first part of the name change is that the current name doesn't include the word "policy". We are keen to have the word "policy" reflected in the name so that students and employers are aware at the outset that our graduates have a degree in public policy. This change was also recommended by recently graduated students. As currently written, an MA in Sustainable Energy could be any number of degrees. In addition, when we created the degree in 2010, it was an MA, as our larger public policy and administration program was also an MA at the time (MAPA which is now a MPPA). The reasoning for the second part of the name change is because the current name does not reflect the full range of policy areas covered in the degree, which highlights interaction between energy and environment. Not only is this emphasis in the core courses, but electives from both engineering and policy such as Indoor Air Quality and Air Pollution Control (from engineering) and Natural Resources Management and Environmental Policy (from policy). As there are now increased offerings at other universities that directly reference "Environment", we would like to highlight this dimension to serve as a more appropriate representation regarding what we are focusing on in our courses and in our research activities.</p>
Transition/Implementation	<p>There will be no changes to the curriculum nor the description of graduation requirements. This name change reflects current practice for the (now-former) MA, so despite the change of the name of both the degree and the field, we do not see a need to revise the learning outcomes for the program.</p>

Program reviewer comments

sandrabauer (10/24/22 1:48 pm): check w grad systems support re new program code
sandrabauer (10/24/22 1:52 pm): VPARC approved October 24, 2022
sandrabauer (11/08/22 4:49 pm): Rollback: update ENG Dean step and resubmit
sandrabauer (11/09/22 11:44 am): Change degree code/per GW

Date Submitted: 01/11/23 4:02 pm

Viewing: **TBD-2109 : M.P.P. M.A.Sustainable Energy and the Environment with Collaborative Specialization in Climate Change**

Last approved: 05/24/22 1:53 pm

Last edit: 01/19/23 4:06 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

1. SERG 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. 01/11/23 5:39 pm
Jennifer Stewart
(jenniferstewart):
Approved for SERG
ChairDir GR
2. 01/12/23 11:49 am
David Mendeloff
(davidmendeloff):
Approved for PA Dean
3. 01/18/23 10:49 am
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
4. 01/19/23 1:36 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
5. 01/24/23 1:39 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
6. 02/15/23 10:54 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

History

1. Feb 24, 2022 by Heather Moulton
(heathermoulton)
2. Feb 24, 2022 by Sandra Bauer (sandrabauer)

Calendar Pages Using this Program [Climate Change \(Collaborative Program\)](#)
[Sustainable Energy](#)

Effective Date	2023-24
Workflow	majormod minormod
Program Code	TBD-2109
Level	Graduate
Faculty	Faculty of Public Affairs
Academic Unit	Sustainable Energy Program
Degree	
Title	M.P.P. M.A. Sustainable Energy and the Environment with Collaborative Specialization in Climate Change

Program Requirements

[M.P.P.](#) ~~M.A.~~ Sustainable Energy [and the Environment](#) with Collaborative Specialization in Climate Change (6.0 credits)

Requirements - Coursework pathway:

1. 1.0 credit in:		1.0
CLIM 5000 [1.0]	Climate Collaboration	
2. 0.0 credit in:		
CLIM 5800 [0.0]	Climate Seminar Series	
3. 1.5 credits in:		1.5
SERG 5002 [0.5]	Sustainable Energy Engineering for Policy Students	
SERG 5003 [0.5]	Energy Evaluation and Assessment Tools	
SERG 5005 [0.5]	Applied Interdisciplinary Project	
4. 0.0 credit in:		0.0
SERG 5800 [0.0]	Sustainable Energy Seminar	
5. 0.5 credit in:		0.5
PADM 5121 [0.5]	Policy Analysis: The Practical Art of Change	
6. 0.5 credit in:		0.5
PADM 5510 [0.5]	Energy Economics	
7. 0.5 credit in:		0.5
PADM 5515 [0.5]	Sustainable Energy Policy	
or PADM 5615 [0.5]	Politics and Policy of Energy in Canada	
8. 2.0 credits from Sustainable Energy Policy courses listed below or other courses as approved by the MA supervisor		2.0
Total Credits		6.0

Requirements - Research essay pathway:

1. 1.0 credit in:		1.0
CLIM 5000 [1.0]	Climate Collaboration	
2. 0.0 credit in:		
CLIM 5800 [0.0]	Climate Seminar Series	
3. 1.5 credits in:		1.5
SERG 5002 [0.5]	Sustainable Energy Engineering for Policy Students	
SERG 5003 [0.5]	Energy Evaluation and Assessment Tools	
SERG 5005 [0.5]	Applied Interdisciplinary Project	
4. 0.0 credit in:		0.0
SERG 5800 [0.0]	Sustainable Energy Seminar	
5. 0.5 credit in:		0.5
PADM 5121 [0.5]	Policy Analysis: The Practical Art of Change	
6. 0.5 credit in:		0.5
PADM 5510 [0.5]	Energy Economics	
7. 0.5 credit in:		0.5
PADM 5515 [0.5]	Sustainable Energy Policy	
or PADM 5615 [0.5]	Politics and Policy of Energy in Canada	
6. 1.0 credit from Sustainable Energy Policy courses listed below or other courses as approved by the MA supervisor		1.0
8. 1.0 credit in:		1.0
PADM 5908 [1.0]	Research Essay (in the specialization)	
Total Credits		6.0

Requirements - Thesis pathway:

1. 1.0 credit in:		1.0
CLIM 5000 [1.0]	Climate Collaboration	
2. 0.0 credit in:		
CLIM 5800 [0.0]	Climate Seminar Series	
3. 1.5 credits in:		1.5
SERG 5002 [0.5]	Sustainable Energy Engineering for Policy Students	
SERG 5003 [0.5]	Energy Evaluation and Assessment Tools	
SERG 5005 [0.5]	Applied Interdisciplinary Project	
4. 0.0 credit in:		0.0
SERG 5800 [0.0]	Sustainable Energy Seminar	
5. 0.5 credit in:		0.5
PADM 5121 [0.5]	Policy Analysis: The Practical Art of Change	
6. 0.5 credit in:		0.5
PADM 5510 [0.5]	Energy Economics	
7. 0.5 credit in:		0.5
PADM 5515 [0.5]	Sustainable Energy Policy	
or PADM 5615 [0.5]	Politics and Policy of Energy in Canada	
8. 2.0 credits in:		2.0
SERG 5909 [2.0]	MA Sustainable Energy Thesis (in the specialization)	
Total Credits		6.0

Notes:

1. Courses must be appropriate to the student's qualifications and selected with the approval of the student's program supervisor.
-

New Resources	No New Resources
Summary	Change name to Master of Public Policy - Sustainable Energy and the Environment with Collaborative Specialization in Climate Change
Rationale for change	<p>The reasoning for the first part of the name change is that the current name doesn't include the word "policy". We are keen to have the word "policy" reflected in the name so that students and employers are aware at the outset that our graduates have a degree in public policy. This change was also recommended by recently graduated students. As currently written, an MA in Sustainable Energy could be any number of degrees. In addition, when we created the degree in 2010, it was an MA, as our larger public policy and administration program was also an MA at the time (MAPA which is now a MPPA). The reasoning for the second part of the name change is because the current name does not reflect the full range of policy areas covered in the degree, which highlights interaction between energy and environment. As there are now increased offerings at other universities that directly reference "Environment", we would like to highlight this dimension to serve as a more appropriate representation regarding what we are focusing on in our courses and in our research activities.</p>
Transition/Implementation	<p>There will be no changes to the curriculum nor the description of graduation requirements. This name change reflects current practice for the (now-former) MA, so despite the change of the name of both the degree and the field, we do not see a need to revise the learning outcomes for the program.</p> <p>Continuing students will be given the choice to have the current designation (MA in Sustainable Energy) or the new one (MPP in Sustainable Energy and the Environment).</p>
Program reviewer comments	sandrabauer (01/19/23 3:59 pm): updated transition statement to include options for continuing students.

Key: 2109

MEMORANDUM

To: Vice-Presidents' Academic and Research Council (VPARC)

From: Adrian Chan, Department of Systems and Computer Engineering
Kelly Fritsch, Department of Sociology and Anthropology
Vincent Kazmierski, Department of Law and Legal Studies
Boris Vukovic, Accessibility Institute and School of Industrial Design

CC: Dana Brown, Dean, Sprott School of Business
Maria DeRosa, Dean, Faculty of Science
Larry Kostiuk, Dean, Faculty of Engineering and Design
Brenda O'Neill, Dean, Faculty of Public Affairs
Pauline Rankin, Dean, Faculty of Arts and Social Sciences
Patrice Smith, Dean, Faculty of Graduate and Postdoctoral Affairs

Date: October 28, 2022

Subject: Major Modification Track A: New Collaborative Specialization in Accessibility

Modification Description

A new collaborative specialization in the area of Accessibility at the master's level is being proposed. The collaborative specialization is intended to be interdisciplinary and not restricted to particular disciplines.

The collaborative specialization has two compulsory courses:

1. One graduate course [0.5 credit] on critical disability studies (ACCS 5001/SOCI 5401 Critical Disability Studies)
2. One graduate seminar course [0.5 credit] on accessible and inclusive design (ACCS 5002/IDES 5104 Accessibility and Inclusive Design Seminar)

Students in a research thesis/research project/research essay related program will complete their research in an area related to accessibility. Students in a course-only program must complete at least 0.5cr of additional courses from a list of approved accessibility electives.

Impact on Other Programs

The proposed specialization will add foundational courses in critical disability studies and accessible and inclusive design to the participating programs. This foundational knowledge and thesis work focused on accessibility will enrich the existing programs in disciplines where accessibility is a growing consideration. More students will be exposed to issues of disability, accessibility and inclusion in our society. We expect this specialization to draw more students into the participating programs.

The initial participating programs are:

Program	Faculty	Unit
MA Sociology	FASS	Department of Sociology and Anthropology
MA Anthropology	FASS	Department of Sociology and Anthropology
MA Women and Gender Studies	FASS	Feminist Institute of Social Transformation
MA History	FASS	Department of History
MA Music and Culture	FASS	School for Studies in Art and Culture
MA Geography	FASS	Department of Geography
MA Legal Studies	FPA	Department of Law and Legal Studies
MA Political Economy	FPA	Institute of Political Economy
MDes Design	FED	School of Industrial Design
MASc/MEng Biomedical Engineering	FED and FoS	Department of Systems and Computer Engineering Department of Mechanical and Aerospace Engineering Department of Physics School of Computer Science
MA/MASc/MCS Human-Computer Interaction	FASS, FED, and FoS	School of Computer Science School of Information Technology Institute of Cognitive Science
MSc Health Sciences	FoS	Department of Health Sciences
MSc Health: Science, Technology and Policy	FoS	Department of Health Sciences
MSc Neuroscience	FoS	Department of Neuroscience
MBA	Spratt	Spratt School of Business
MASc/Meng/MEnt Technology Innovation Management	Spratt	Spratt School of Business

Impact on Learning Outcomes and Curriculum Map

Students who have completed the Collaborative Specialization in Accessibility will be able to:

1. Discuss disability (e.g., biopsychosocial implications of disability, statistics about disability, the diversity of disability, different models of disability, and historical status of persons with disabilities in society)

2. Describe the importance of accessibility (e.g., human rights, socioeconomic benefits, health benefits, legal and regulatory requirements)
3. Explain and contrast design approaches for accessibility, including human-centered design (e.g., co-design), universal design, and inclusive design.
4. Define accessibility problems and be able to propose and design research-based solutions with interdisciplinary methods

Societal Need

Approximately 1 in 5 Canadians have one or more disabilities [1]. The WHO reports 15% of the world population (> 1 billion people) are living with some form of disability. The proportion of those living with a disability is increasing, partly due to the aging population. In major areas of social participation, persons with disabilities face significant barriers to access and supports:

- Disabled Canadians and Americans live under the poverty line at a rate that is more than twice the rate for people without disabilities [8],[9].
- Underrepresented and less likely to complete higher education [10], a key factor for better employment and earnings among disabled Canadians [11].
- In Canada, employed at a rate 21% lower than those without disabilities [1], and globally with 80-100% higher unemployment than the average for non-disabled workers [12].
- Less likely to receive needed medical care with many primary care providers ill-equipped to meet their needs [13][14][15].

Accessibility and the opportunity to fully participate in society is a human right, as outlined in the UN Convention on the Rights of Persons with Disabilities [2] to which Canada is a signatory. In Canada, the Charter of Rights and Freedoms and provincial human rights legislation prohibit discrimination on the basis of disability. In addition, there are legislative requirements for accessibility, including the Accessible Canada Act [3] and the Accessibility for Ontarians with Disabilities Act [4]. Human rights and government legislation recognize the persisting ableism and discrimination on the basis of disability. Accessibility may be a necessity for people with disabilities but often benefits everyone with the so-called “curb-cut effect”, including people experiencing temporary and situational disabilities. There is enormous, and growing, social [5] and economic benefits [6][7] that can be realized by enhancing and expanding accessibility.

The design and delivery of environments, products, and services, with an inclusive approach, that “bakes-in” accessibility from the start, will produce more innovative, resilient, and useable outputs. As disability-related stigma, bias, and ableism still prevail in our society, it is important to integrate disability and accessibility knowledge and awareness into existing academic programs. With new legislative requirements and growing recognition of the socioeconomic benefits, the demand for accessibility knowledge, skills, and attitudes are increasing across many careers in the industry, government, and not-for-profit sectors.

[1] Statistics Canada, A demographic, employment and income profile of Canadians with disabilities aged 15 years and over, 2017, Cat. No. 89-654-X2018002, November 2018.

<https://www150.statcan.gc.ca/n1/pub/89-654-x/89-654-x2018002-eng.htm>

- [2] UN General Assembly, Convention on the Rights of Persons with Disabilities: resolution / adopted by the General Assembly, 24 January 2007, A/RES/61/106.
- [3] Accessible Canada Act: An Act to ensure a barrier-free Canada, 2019, S.C. 2019. Available at <https://laws-lois.justice.gc.ca/eng/acts/A-0.6/>
- [4] Accessibility for Ontarians With Disabilities Act, 2005, SO 2005. Available at <https://www.ontario.ca/laws/statute/05a11>
- [5] ODEN (Ontario Disability Employment Network). (n.d.). Engage talent. <https://odenetwork.com/businesses/why-hire>
- [6] Kemper A, Stolarick K, Treviranus J, Milway JB. (2010). Releasing constraints: projecting the economic impacts of increased accessibility in Ontario. Toronto: Martin Prosperity Institute.
- [7] Gibbard R, Desormeaux M, Persaud P, Wright R. 2018. The business case to build physically accessible environments. The Conference Board of Canada. <https://www.conferenceboard.ca/elibrary/abstract.aspx?did=9434>
- [8] National Council on Disability, National Disability Policy: A Progress Report, October, 2017. https://ncd.gov/sites/default/files/NCD_A_Progress_Report_508.pdf
- [9] Katherine Wall, Insights on Canadian Society: Low income among persons with a disability in Canada, Statistics Canada, Catalogue no. 75-006-X, August 2017. <https://www150.statcan.gc.ca/n1/pub/75-006-x/2017001/article/54854-eng.htm>
- [10] United Nations Department of Economic and Social Affairs, Disability and Development Report Realizing the Sustainable Development Goals by, for and with persons with disabilities, 2018. <https://www.un.org/development/desa/disabilities/wp-content/uploads/sites/15/2019/07/disability-report-chapter2.pdf>
- [11] Martin Turcotte, Insights on Canadian Society: Persons with disabilities and employment, Statistics Canada, Catalogue no. 75-006-X, December 2014. https://www150.statcan.gc.ca/n1/en/pub/75-006-x/2014001/article/14115-eng.pdf?st=Kqkqcs_m
- [12] International Labour Office, Disability Discrimination at Work, April 2007. https://www.ilo.org/declaration/info/factsheets/WCMS_DECL_FS_87_EN/lang--en/index.htm
- [13] Centers for Disease Control and Prevention, Prevalence of Disabilities and Health Care Access by Disability Status and Type Among Adults — United States, 2016. <https://www.cdc.gov/ncbddd/disabilityandhealth/features/kf-adult-prevalence-disabilities.html>
- [14] Colleen McMillan et al. "Physician perspectives on care of individuals with severe mobility impairments in primary care in Southwestern Ontario, Canada." Health & social care in the community 24.4 (2016): 463-472.
- [15] World Health Organization, Disability and health, November 2021. <https://www.who.int/news-room/fact-sheets/detail/disability-and-health>

Student Demand

There is good student demand for education in accessibility. The NSERC CREATE Research and Education in Accessibility, Design, and Innovation (READi) is an interdisciplinary graduate training program in accessibility, which started in September 2017 (www.create-readi.ca). The program has exceeded its training targets, with approximately 70 graduate students participating in its first five years. The minor in Disability Studies, housed in FASS, at the undergraduate level is a highly subscribed minor; the high interest in disabilities studies is a good indicator of high interest potential for the proposed collaborative specialization in accessibility.

Elsewhere, postsecondary institutions are recognizing the growing priority of accessibility and the need for knowledge and expertise. Ryerson University has grown its offering from two continuing education courses into the [Accessibility Studies program](#) with six undergraduate level courses. OCAD University's [MDes Inclusive Design](#) and their well-established Inclusive Design Research Centre (IDRC) provide a unique graduate program that is directly addressing the current national priorities in accessibility and inclusion.

Resources

The governance for the Collaborative Specialization in Accessibility is proposed to be housed within the Department of Sociology and Anthropology. The Department of Sociology and Anthropology is a diverse unit, active in interdisciplinary academic research, training, and learning, including disability studies and accessibility.

The day-to-day operations of the Collaborative Specialization in Accessibility will be managed by a faculty member serving as the Director, with administrative support.

A governance committee will oversee academic matters related to the specialization (e.g., calendar changes). The governance committee involves the Director and a faculty representative from each participating academic program (the Director/Chair or designate).

The required resources for the Collaborative Specialization in Accessibility include:

- 0.5 credit/year teaching relief for Director
- 0.5 FTE administrator
- 0.5cr/year Contract Instructor replacements for units offering core courses for the collaborative specialization in the Faculty of Engineering and Design
- Annual funding for academic activities related to the specialization (e.g., invited speakers)

In addition to the the required resources that will directly support the Collaborative Specialization in Accessibility, there is a commitment to hire a new faculty member in the area of accessibility with the Faculty of Arts and Social Sciences. This new faculty member will be funded through the Canada Research Chairs program, and is aligned to the strategic priorities of the university (e.g., Strategic integrated Plan, Coordinated Accessibility Strategy), acknowledging Carleton's commitment and leadership in accessibility, including its growing activities in education and research.

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Collaborative Specialization in Accessibility

Including MA Sociology and MA Anthropology as initial participating programs in the proposed new Collaborative Specialization in Accessibility.

Including SOCI 5401 Critical Disability Studies as one of the core courses for the proposed new Collaborative Specialization in Accessibility.

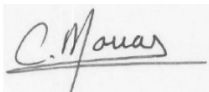
Including the Department of Sociology and Anthropology to house the governance and administrative support for the Collaborative Specialization.

I support this change unconditionally.

I do not support this change.

I support this change, with the following reservations:

Signature:

A handwritten signature in black ink, appearing to read 'C. Novas', is written over a horizontal line.

Name: Carlos Novas

Title: Acting Chair and Associate Professor

Academic unit: Sociology and Anthropology

Date: August 29, 2022

Notes:

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Collaborative Specialization in Accessibility

Including MA in Women's and Gender Studies as one of the initial participating programs in the proposed new Collaborative Specialization in Accessibility.

I support this change unconditionally.

I do not support this change.

I support this change, with the following reservations:

Signature: 

Name: Amrita Hari

Title: Director, Associate Professor

Academic unit: Feminist Institute of Social Transformation (Formerly the Pauline Jewett

Institute of Social Transformation

Date: August 31, 2022

Notes: N/A



History
CARLETON UNIVERSITY

Department of History
400 Paterson Hall
1125 Colonel By Drive
Ottawa, ON Canada K1S 5B6
Tel: (613) 520-2828
www.carleton.ca/history

To: Adrian D. C. Chan
Professor, Department Systems & Computer Engineering
Director, Research and Education in Accessibility, Design, and Innovation (READi)

From: Paul Nelles
Associate Professor and Graduate Supervisor
Department of History

cc: Sonya Lipsett-Rivera
Professor and Chair, Department of History

STATEMENT OF SUPPORT FROM HISTORY DEPARTMENT

RE: Collaborative Specialization in Accessibility

The Department of History offers its unconditional support as one of the initial participating programs in the proposed new Collaborative Specialization in Accessibility. Our participating program will be the MA History program (Thesis and MRE pathways).

Sincerely,

Dr Paul Nelles
Associate Professor
Graduate Supervisor

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Collaborative Specialization in Accessibility

Including the **MA in Music and Culture** as one of the initial participating programs in the proposed new Collaborative Specialization in Accessibility.

I support this change unconditionally.

I do not support this change.

I support this change, with the following reservations:

Signature: 

Name: Mitchell Frank

Title: Director

Academic unit: School for Studies in Art and Culture

Date: September 1, 2022

Notes:

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Major Modification Track A: New Collaborative Specialization in Accessibility

I support this change unconditionally.

I do not support this change.

I support this change, with the following reservations:

Signature:

A handwritten signature in cursive script that reads "P. Ballamingie".

Name: Patricia Ballamingie

Title: Professor and Interim Chair

Academic unit: Department of Geography & Environmental Studies

Date: October 13, 2022

Notes: We discussed this proposal at our departmental meeting on Wednesday, October 12, and 10 of 13 departmental members supported it, and 3 abstained. Those in favour noted the additional axes of differentiation this cross specialization would allow students to analyze – critical disability studies and accessible and inclusive design – further sharpening and EDI lens. Those who abstained from voting worried that our graduate calendar is already quite complicated, with seven existing collaborative specializations.

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Collaborative Specialization in Accessibility

Including the Department of Law and Legal Studies as one of the initial participating programs in the proposed new Collaborative Specialization in Accessibility.

I support this change unconditionally.

I do not support this change.

I support this change, with the following reservations:

Signature: 

Name: Zeina Bou-Zeid

Title: Department Chair

Academic Unit: Law and Legal Studies

Date: September 19, 2022

Notes: Approved at the September 15, 2022 Department Board meeting. Approved unanimously.

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Collaborative Specialization in Accessibility

Including MA in Political Economy as one of the initial participating programs in the proposed new Collaborative Specialization in Accessibility.

I support this change unconditionally.

I do not support this change.

I support this change, with the following reservations:

Signature: 

Name: Justin Paulson

Title: Director

Academic unit: Institute of Political Economy

Date: 29 August 2022

Notes:

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Collaborative Specialization in Accessibility

Including MDes in School of Industrial Design as one of the initial participating programs in the proposed new Collaborative Specialization in Accessibility.

I support this change unconditionally.

I do not support this change.

I support this change, with the following reservations:

Signature:

A handwritten signature in black ink, appearing to read 'W. Chung', written in a cursive style.

Name: WonJoon Chung

Title: Associate Professor

Academic unit: FED

Date: Sep. 4, 2022

Notes:

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Collaborative Specialization in Accessibility

Including MAsC and MEng in Biomedical Engineering as one of the initial participating programs in the proposed new Collaborative Specialization in Accessibility.

I support this change unconditionally.

I do not support this change.

I support this change, with the following reservations:

Signature:



Name: Yuu Ono

Title: Interim Director

Academic unit: The Ottawa-Carleton Institute for Biomedical Engineering (OCIBME)

Date: Oct. 6, 2022

Notes:

OCIBME academic units at Carleton:

- Department of Systems and Computer Engineering
- Department of Mechanical and Aerospace Engineering
- Department of Physics
- School of Computer Science

This statement of support does not represent any of OCIBME units at University of Ottawa since the proposed specialization is only available at Carleton University.

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Collaborative Specialization in Accessibility

Including MHCI in Human-Computer Interaction as one of the initial participating programs in the proposed new Collaborative Specialization in Accessibility.

I support this change unconditionally.

I do not support this change.

I support this change, with the following reservations:

Signature: 

Name: Elizabeth Stobert

Title: Co-director, HCI Masters Program

Academic unit: Computer Science

Date: Oct 3, 2022

Notes:

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Collaborative Specialization in Accessibility

Including M.Sc. in Health Sciences and M.Sc. in Health: Science, Technology, and Policy as one of the initial participating programs in the proposed new Collaborative Specialization in Accessibility.

I support this change unconditionally.

I do not support this change.

I support this change, with the following reservations:

Signature:



Name: Martin Holcik

Title: Professor and Chair

Academic unit: Department of Health Sciences

Date: September 26, 2022

Notes:

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Collaborative Specialization in Accessibility

Including MSc in Neuroscience as one of the initial participating programs in the proposed new Collaborative Specialization in Accessibility.

I support this change unconditionally.

I do not support this change.

I support this change, with the following reservations:

Signature:



Name: Matthew Holahan

Title: Professor, Chair

Academic unit:

Neuroscience

Date: Sep 1, 2022

Notes:

STATEMENT OF SUPPORT FROM SISTER UNIT

RE: Collaborative Specialization in Accessibility

Including MBA as one of the initial participating programs in the proposed new Collaborative Specialization in Accessibility.

I support this change unconditionally.

I do not support this change.

I support this change, with the following reservations:

Signature:

A handwritten signature in black ink, appearing to read 'R. Ritchie', written over a light blue horizontal line.

Name: Robin Ritchie

Title: Associate Dean, Professional Graduate Programs

Academic unit: Sprott School of Business

Date: 13 October 2022

Notes:

Program Change Request

New Program Proposal

Date Submitted: 02/14/23 3:29 pm

Viewing: **TBD-2186 : M.A. Sociology with Collaborative Specialization in Accessibility**

Last edit: 03/17/23 4:06 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

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

Approval Path

1. 02/17/23 8:13 am
Adrian Chan
(adrianchan): Approved
for ACCS ChairDir GR
2. 02/21/23 3:42 pm
Carlos Novas
(carlosnovas): Approved
for SOAN ChairDir GR
3. 02/24/23 1:19 pm
Peter Thompson
(peterthompson):
Approved for AS Dean
4. 02/24/23 1:36 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
5. 02/24/23 2:05 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
6. 03/08/23 1:56 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
7. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard
8. 03/16/23 1:11 pm
Natalie Phelan

Effective Date	2023-24
Workflow	majormod
Program Code	TBD-2186
Level	Graduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of Sociology and Anthropology Accessibility
Degree	Master of Arts
Title	M.A. Sociology with Collaborative Specialization in Accessibility

Program Requirements

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

Requirements - Thesis pathway (5.0 credits):

1. 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	
2. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
3. 1.0 credit in SOCI at the graduate level (not including those listed above). With departmental permission 0.5 credit may be selected from courses at the 4000-level.		1.0
4. 2.0 credits in:		2.0
SOCI 5909 [2.0]	M.A. Thesis (in the specialization)	
5. An oral examination on the candidate's thesis and program		
Total Credits		5.0

Requirements - Research essay pathway (5.0 credits):

1. 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	
2. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	

Program Change Request

New Program Proposal

Date Submitted: 02/14/23 4:01 pm

Viewing: **TBD-2187 : M.A. Anthropology with Collaborative Specialization in Accessibility**

Last edit: 03/17/23 4:05 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

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

Approval Path

1. 02/17/23 8:14 am
Adrian Chan
(adrianchan): Approved
for ACCS ChairDir GR
2. 02/21/23 3:42 pm
Carlos Novas
(carlosnovas): Approved
for SOAN ChairDir GR
3. 02/24/23 1:19 pm
Peter Thompson
(peterthompson):
Approved for AS Dean
4. 02/24/23 1:36 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
5. 02/24/23 2:05 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
6. 03/08/23 1:56 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
7. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard
8. 03/16/23 1:11 pm
Natalie Phelan

Effective Date	2023-24
Workflow	majormod
Program Code	TBD-2187
Level	Graduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of Sociology and Anthropology Accessibility
Degree	Master of Arts
Title	M.A. Anthropology with Collaborative Specialization in Accessibility

Program Requirements

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

Requirements - Thesis pathway (5.0 credits):

1. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
2. 1.0 credit in:		1.0
ANTH 5401 [0.5]	Theory in Anthropology	
ANTH 5402 [0.5]	Research in Anthropology	
3. 1.0 credit in ANTH at the graduate level (not including those listed above). With departmental permission 0.5 credit may be selected from courses at the 4000-level.		1.0
4. 2.0 credits in:		2.0
ANTH 5909 [2.0]	M.A. Thesis (in the specialization)	
5. An oral examination on the candidate's thesis and program		
Total Credits		5.0

Requirements - Research essay pathway (5.0 credits):

1. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
2. 1.0 credit in:		1.0
ANTH 5401 [0.5]	Theory in Anthropology	
ANTH 5402 [0.5]	Research in Anthropology	
3. 2.0 credits in approved electives, chosen in consultation with the student's advisor		2.0

4. 1.0 credit in:		1.0
ANTH 5908 [1.0]	M.A. Research Essay (in the specialization)	
Total Credits		5.0
Requirements - Coursework pathway (5.0 credits):		
1. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
2. 1.0 credit in:		1.0
ANTH 5401 [0.5]	Theory in Anthropology	
ANTH 5402 [0.5]	Research in Anthropology	
3. 0.5 credit in a course designated as having sufficient accessibility content and approved by the Anthropology graduate coordinator		0.5
3. 2.5 credits in approved electives, chosen in consultation with the student's advisor		2.5
Total Credits		5.0

New Resources Other

Summary Add new collaborative specialization in accessibility

Rationale

The proposed collaborative specialization will add to our existing offerings at the MA level and will provide students with foundational courses in critical disability studies and accessible and inclusive design. As accessibility is a growing consideration and as more and more students engage with accessibility issues in their academic work, adding this specialization to our current offerings will allow us to meaningfully integrate disability and accessibility knowledge and awareness into our current MA program. The demand for accessibility knowledge is growing, as reflected in students' interests. Adding this specialization to our current MA program will provide an opportunity for students to gain foundational knowledge in disability and accessibility, and may draw more students into our program. The Department of Sociology and Anthropology has sufficient supervisory capacity to supervise students interested in the fields of accessibility and disability studies. The key faculty in our department that have expertise in the field of disability studies include Kelly Fritsch, Alexis Shotwell, Marie-Eve Carrier-Moisan, Bernhard Leistle. We also have a number of Carleton faculty members associated with our department that can also supervise students. These faculty include Xuan Thuy Nguyen, Julia Sinclair-Palm, and Chiara Del Gaudio.

Transition/Implementation new program

Program reviewer comments **nataliephelan (02/21/23 2:56 pm):** In sub-requirement #3, replaced reference to SOCI with ANTH, as this is the Anthro iteration of this program.
sandrabauer (03/17/23 4:05 pm): Addition to rationale re supervisory capacity/expertise

New Program Proposal

Date Submitted: 02/16/23 8:03 pm

Viewing: **TBD-2188 : M.A. Women's and Gender Studies with Collaborative Specialization in Accessibility**

Last edit: 02/22/23 10:58 am

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

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

Approval Path

1. 02/17/23 8:16 am
Adrian Chan
(adrianchan): Approved for ACCS ChairDir GR
2. 02/22/23 11:35 am
Amrita Hari (amritahari): Approved for WOMN ChairDir GR
3. 02/24/23 1:19 pm
Peter Thompson
(peterthompson): Approved for AS Dean
4. 02/24/23 1:36 pm
Sandra Bauer
(sandrabauer): Approved for GRAD Dean
5. 02/24/23 2:05 pm
Sandra Bauer
(sandrabauer): Approved for PRE GRAD FCC
6. 03/08/23 1:56 pm
Sandra Bauer
(sandrabauer): Approved for GRAD FCC
7. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved for GRAD FBoard

Effective Date 2023-24

Workflow majormod

Program Code	TBD-2188
Level	Graduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Pauline Jewett Institute of Women's and Gender Studies Accessibility
Degree	Master of Arts
Title	M.A. Women's and Gender Studies with Collaborative Specialization in Accessibility

Program Requirements

M.A. Women's and Gender Studies with Collaborative Specialization in Accessibility (5.0 credits)

Requirements - Thesis pathway (5.0 credits):

1. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
2. 0.5 credit in:		0.5
WGST 5900 [0.5]	Program Seminar	
3. 0.5 credit in:		0.5
WGST 5906 [0.5]	Feminist Theory	
4. 0.5 credit in:		0.5
WGST 5907 [0.5]	Researching Women's and Gender Issues	
5. 0.5 credit in	additional course work chosen from available elective courses (see below)	0.5
6. 2.0 credits in:		2.0
WGST 5909 [2.0]	M.A .Thesis (in the specialization)	
Total Credits		5.0

Requirements - Research essay pathway (5.0 credits):

1. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
2. 0.5 credit in:		0.5
WGST 5900 [0.5]	Program Seminar	
3. 0.5 credit in:		0.5
WGST 5906 [0.5]	Feminist Theory	
4. 0.5 credit in:		0.5
WGST 5907 [0.5]	Researching Women's and Gender Issues	
5. 1.5 credits in	additional course work chosen from available elective courses (see below)	1.5
6. 1.0 credit in:		1.0
WGST 5908 [1.0]	Research Essay (in the specialization)	
Total Credits		5.0

New Resources

No New Resources

Summary

Add new collaborative specialization for thesis and project pathways of MA Women's and Gender Studies

Rationale

The Feminist Institute of Social Transformation (FIST) [Formerly the Pauline Jewett Institute of Women's and Gender Studies] houses all programs in Women's and Gender Studies, and Minors in Critical Disability Studies, Sexuality Studies, and Critical Race Studies. Our teaching and research approaches are interdisciplinary, intersectional, and transnational. Disability justice, theory, and culture are an integral part of our undergraduate curriculum. The Collaborative Specialization in Accessibility is an opportunity to formalize these as core components of our graduate studies. The specialization will provide our MA students who bring a deep interest in disability studies to the program the option to tailor their MA learning to fit with their educational and career goals alongside a community of scholars with similar interests. FIST has the capacity to provide supervision for students in the specialization. Dr. Fady Shanouda joined our institution in 2021. He is a Critical Disability Studies scholar whose research examines disabled and mad students' experiences in higher education. He can supervise on topics including the theoretical and pedagogical intersections of Disability, Mad, and Fat Studies, as well as socio-historical examinations that surface the interconnections of colonialism, racism, ableism/sanism and fatphobia. Students can also choose from our growing and exciting list of cross-appointed faculty, including Kelly Fritsch, Alexis Shotwell, and Andrés C. López.

Transition/Implementation n/a - new program

Program reviewer comments

sandrabauer (02/22/23 10:58 am): added rationale

New Program Proposal

Date Submitted: 02/24/23 2:02 pm

Viewing: **TBD-2190 : M.A.Sc. Biomedical Engineering with Collaborative Specialization in Accessibility**

Last edit: 02/24/23 2:02 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

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

Approval Path

1. 02/17/23 8:16 am
Adrian Chan
(adrianchan): Approved for ACCS ChairDir GR
2. 02/24/23 2:00 pm
Sandra Bauer
(sandrabauer): Rollback to Initiator
3. 02/24/23 2:02 pm
Adrian Chan
(adrianchan): Approved for ACCS ChairDir GR
4. 02/24/23 5:51 pm
Yvan Labiche
(yvanlabiche): Approved for BIOM ChairDir GR
5. 02/26/23 11:20 am
Richard Dansereau
(richarddansereau): Approved for ENG Dean
6. 02/27/23 8:24 am
Sandra Bauer
(sandrabauer): Approved for GRAD Dean
7. 02/27/23 8:27 am
Sandra Bauer
(sandrabauer): Approved for PRE GRAD FCC
8. 03/08/23 1:56 pm
Sandra Bauer
(sandrabauer): Approved for GRAD FCC

Effective Date	2023-24
Workflow	majormod
Program Code	TBD-2190
Level	Graduate
Faculty	Faculty of Engineering and Design
Academic Unit	Biomedical Engineering Accessibility
Degree	
Title	M.A.Sc. Biomedical Engineering with Collaborative Specialization in Accessibility

Program Requirements

M.A.Sc. Biomedical Engineering with Collaborative Specialization in Accessibility (5.0 credits)

Requirements - Thesis pathway:

1. 0.5 credit in:		0.5
BIOM 5010 [0.5]	Introduction to Biomedical Engineering	
2. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
3. 1.0 credit in BIOM(BMG) courses		1.0
4. 2.5 credits in:		2.5
BIOM 5909 [2.5]	M.A.Sc. Thesis (in the specialization)	
5. 0.0 credit in:		
BIOM 5800 [0.0]	Biomedical Engineering Seminar	
Total Credits		5.0

Requirements - Project pathway:

1. 0.5 credit in:		0.5
BIOM 5010 [0.5]	Introduction to Biomedical Engineering	
2. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
3. 1.5 credits in BIOM(BMG) courses		1.5
4. 0.5 credit in elective courses at either Carleton University or University of Ottawa with the approval of the OCIBME Director or Associate Director		0.5

5. 1.5 credits in:		1.5
<u>BIOM 5900</u> [1.5]	Biomedical Engineering Project (in the specialization)	
6. 0.0 credit in:		0.0
<u>BIOM 5800</u> [0.0]	Biomedical Engineering Seminar	
Total Credits		5.0
Requirements - Coursework pathway:		
1. 0.5 credit in:		0.5
<u>BIOM 5010</u> [0.5]	Introduction to Biomedical Engineering	
2. 1.0 credit in:		1.0
<u>ACCS 5001</u> [0.0]	Critical Disability Studies	
<u>ACCS 5002</u> [0.0]	Accessibility and Inclusive Design Seminar	
3. 2.0 credits in BIOM(BMG) courses		2.0
4. 1.5 credits in elective courses at either Carleton University or University of Ottawa with the approval of the OCIBME Director or Associate Director, including 0.5 credit designated as having sufficient accessibility content		1.5
5. 0.0 credit in:		0.0
<u>BIOM 5800</u> [0.0]	Biomedical Engineering Seminar	
Total Credits		5.0

New Resources No New Resources

Summary Add collaborative specialization in Accessibility

Rationale The addition of the collaborative specialization in accessibility was approved by the OCIBME Board of Management. The specialization is relevant to the area of biomedical engineering, particularly as it relates to topics of assistive devices, rehabilitation, and technology to support aging. We have a number of biomedical engineering faculty researchers and students already engaged in accessibility research, and this specialization will a beneficial addition.

Transition/Implementation n/a - new program

Program reviewer comments **sandrabauer (02/24/23 2:00 pm):** Rollback: To add Yuu Ono to role, then resubmit

New Program Proposal

Date Submitted: 02/16/23 8:03 pm

Viewing: **TBD-2191 : M.A. History with Collaborative Specialization in Accessibility**

Last edit: 03/03/23 2:00 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

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

Approval Path

1. 02/17/23 8:17 am
Adrian Chan
(adrianchan): Approved
for ACCS ChairDir GR
2. 02/17/23 8:20 am
Sonya Lipsett-Rivera
(sonyalipsettrivera):
Approved for HIST
ChairDir GR
3. 02/24/23 1:19 pm
Peter Thompson
(peterthompson):
Approved for AS Dean
4. 02/24/23 1:36 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
5. 02/24/23 2:05 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
6. 03/08/23 1:56 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
7. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

Workflow	majormod
Program Code	TBD-2191
Level	Graduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of History Accessibility
Degree	
Title	M.A. History with Collaborative Specialization in Accessibility

Program Requirements

M.A. History with Collaborative Specialization in Accessibility (4.5 credits)

Requirements - Thesis pathway:

1. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
2. 0.5 credit in:		0.5
HIST 5003 [0.5]	Historical Theory and Method	
3. 1.0 credit in HIST at the graduate level at Carleton; up to 0.5 credit may be taken in designated public history courses. With departmental permission, up to 0.5 credit of courses with historical content may be taken from another unit at Carleton University, at the University of Ottawa, or at another accredited institution.		1.0
4. 2.0 credits in:		2.0
HIST 5909 [2.0]	M.A. Thesis (in the specialization)	
Total Credits		4.5

Requirements - Research essay pathway:

1. 1.0 credit in:		0.5
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
2. 0.5 credit in:		0.5
HIST 5003 [0.5]	Historical Theory and Method	
3. 1.5 credits in HIST at the graduate level at Carleton; up to 0.5 credit may be taken in designated public history courses. With departmental permission, up to 0.5 credit of courses with historical content may be taken from another unit at Carleton University, at the University of Ottawa, or at another accredited institution.		1.5
4. 0.5 credit in:		0.5
HIST 5900 [0.5]	Directed Research	
5. 1.0 credit in:		1.0
HIST 5908 [1.0]	M.A. Research Essay (in the specialization)	
Total Credits		4.0

New Resources No New Resources

Summary

Add collaborative specialization in Accessibility

Rationale

The addition of the collaborative specialization in Accessibility was approved by the History Department in September 2022. The rationale for adding these specializations is there is strong student interest in these areas (among applicants and current students). Our department includes faculty who can supervise students in the proposed specialization. The history of disability is an emerging field and we have students and both permanent and adjunct faculty working or who have worked in this area.

Transition/Implementation new program

Program reviewer
comments

New Program Proposal

Date Submitted: 02/16/23 8:04 pm

Viewing: **TBD-2192 : M.A. Music and Culture with Collaborative Specialization in Accessibility**

Last edit: 03/03/23 1:17 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

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

Approval Path

1. 02/17/23 8:18 am
Adrian Chan
(adrianchan): Approved
for ACCS ChairDir GR
2. 02/21/23 9:55 am
Mitchell Frank
(mitchellfrank):
Approved for ARTC
ChairDir GR
3. 02/24/23 1:19 pm
Peter Thompson
(peterthompson):
Approved for AS Dean
4. 02/24/23 1:36 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
5. 02/24/23 2:05 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
6. 03/08/23 1:56 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
7. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

Effective Date

2023-24

Workflow	majormod
Program Code	TBD-2192
Level	Graduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	School for Studies in Art and Culture Accessibility
Degree	
Title	M.A. Music and Culture with Collaborative Specialization in Accessibility

Program Requirements

M.A. Music and Culture with Collaborative Specialization in Accessibility (5.0 credits)

Requirements - Thesis pathway:

1. 1.5 credits in:		1.5
MUSI 5000 [0.5]	Music and Cultural Theory I: Intellectual Histories	
MUSI 5002 [0.5]	Research Methods in Music and Culture	
MUSI 5004 [0.5]	Music and Cultural Theory II: Current Debates	
2. 0.5 credit in	additional MUSI coursework chosen from available electives	0.5
3. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
4. 2.0 credits in:		2.0
MUSI 5909 [2.0]	M.A. Thesis (in the specialization)	
Total Credits		5.0

Requirements - Research essay pathway:

1. 1.5 credits in:		1.5
MUSI 5000 [0.5]	Music and Cultural Theory I: Intellectual Histories	
MUSI 5002 [0.5]	Research Methods in Music and Culture	
MUSI 5004 [0.5]	Music and Cultural Theory II: Current Debates	
2. 1.5 credits in	additional MUSI coursework chosen from available electives	1.5
3. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
4. 1.0 credit in:		1.0
MUSI 5908 [1.0]	Research Essay (in the specialization)	
Total Credits		5.0

Requirements - Coursework pathway:

1. 1.5 credits in:		1.5
MUSI 5000 [0.5]	Music and Cultural Theory I: Intellectual Histories	

[MUSI 5002](#) [0.5]

Research Methods in Music and Culture

[MUSI 5004](#) [0.5]

Music and Cultural Theory II: Current Debates

2. **2.5 credits in** additional MUSI coursework chosen from available electives, including 0.5 credit designated as having sufficient accessibility content 2.5

3. **1.0 credit in:** 1.0

[ACCS 5001](#) [0.0]

Critical Disability Studies

[ACCS 5002](#) [0.0]

Accessibility and Inclusive Design Seminar

Total Credits 5.0

New Resources No New Resources

Summary Add collaborative specialization in accessibility

Rationale The addition of the collaborative specialization in Accessibility was recently approved by the Music Graduate Committee in the School for Studies in Art and Culture. The rationale for adding this specializations is there is strong student interest in this area (among applicants and current students). The Music program retains associated faculty who can supervise students in the proposed specialization. The program's course offerings include sufficient content relevant to the specialization.

Transition/Implementation new program

Program reviewer comments **sandrabauer (03/03/23 1:17 pm):** Thesis and R.E. pathway - moved thesis & RE to final item.

Program Change Request

New Program Proposal

Date Submitted: 02/16/23 8:04 pm

Viewing: **TBD-2193 : M.A. Political Economy with Collaborative Specialization in Accessibility**

Last edit: 03/17/23 3:11 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

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

Approval Path

1. 02/17/23 8:19 am
Adrian Chan
(adrianchan): Approved
for ACCS ChairDir GR
2. 02/17/23 8:41 am
Justin Paulson
(justinpaulson):
Approved for PECO
ChairDir GR
3. 02/21/23 1:08 pm
David Mendeloff
(davidmendeloff):
Approved for PA Dean
4. 02/24/23 10:17 am
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
5. 02/24/23 10:31 am
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
6. 03/08/23 1:56 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
7. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard
8. 03/16/23 1:12 pm

Effective Date	2023-24
Workflow	majormod
Program Code	TBD-2193
Level	Graduate
Faculty	Faculty of Public Affairs
Academic Unit	Institute of Political Economy Accessibility
Degree	Master of Arts
Title	M.A. Political Economy with Collaborative Specialization in Accessibility

Program Requirements

M.A. Political Economy with Collaborative Specialization in Accessibility (5.0 credits)

Requirements - Thesis pathway:

1. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
2. 1.0 credit in:		1.0
PECO 5000 [0.5]	Theories of Political Economy	
PECO 5001 [0.5]	Methodologies of Political Economy	
3. 2.0 credits in:		2.0
PECO 5909 [2.0]	M.A. Thesis (in the specialization)	
4. 1.0 credit in approved graduate-level electives (see Selection of Courses, below). Up to 1.0 credit may be taken at the 4000-level.		1.0
Total Credits		5.0

Requirements - Research essay pathway:

1. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
2. 1.0 credit in:		1.0
PECO 5000 [0.5]	Theories of Political Economy	
PECO 5001 [0.5]	Methodologies of Political Economy	
3. 1.0 credit in:		1.0

PECO 5908 [1.0]

Research Essay (in the specialization)

4. 2.0 credits in approved graduate-level electives (see Selection of Courses, below). Up to 1.0 credit may be taken at the 4000-level.	1.0
Total Credits	4.0

New Resources No New Resources

Summary Add collaborative specialization in Accessibility.

Rationale There is sufficient overlap in the thematic and theoretical concerns of Political Economy with those of Accessibility studies, including those of equality, equity, labour participation, labour productivity, class, social reproduction theory, and critical disability studies. We believe our program's course offerings include sufficient content relevant to the specialization; we have a sufficient number of cross-appointed faculty able to supervise interested students; and we may even be able to offer a special topics course on the political economy of disability (taught by cross-appointed faculty member Kelly Fritsch) in the medium-term future.

Transition/Implementation new program

Program reviewer comments **sandrabauer (03/17/23 3:11 pm):** Added rationale.

New Program Proposal

Date Submitted: 02/24/23 3:03 pm

Viewing: **TBD-2194 : M.Sc. Neuroscience with Collaborative Specialization in Accessibility**

Last edit: 02/24/23 3:28 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

1. ACCS ChairDir GR
2. NEUR ChairDir GR
3. SCI Dean
4. GRAD Dean
5. PRE GRAD FCC
6. GRAD FCC
7. GRAD FBoard
8. PRE SCCASP
9. SCCASP
10. SQAPC
11. Senate
12. CalEditor

Approval Path

1. 02/24/23 3:04 pm
Adrian Chan
(adrianchan): Approved
for ACCS ChairDir GR
2. 02/24/23 3:24 pm
Michael Hildebrand
(mikehildebrand):
Approved for NEUR
ChairDir GR
3. 02/24/23 3:30 pm
Yiqiang Zhao
(yiqiangzhao): Approved
for SCI Dean
4. 02/24/23 3:43 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
5. 02/27/23 8:28 am
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
6. 03/08/23 2:02 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
7. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

Effective Date

2023-24

Workflow	majormod
Program Code	TBD-2194
Level	Graduate
Faculty	Faculty of Science
Academic Unit	Department of Neuroscience Accessibility
Degree	Master of Science
Title	M.Sc. Neuroscience with Collaborative Specialization in Accessibility

Program Requirements

M.Sc. Neuroscience with Collaborative Specialization in Accessibility (5.0 credits)

Requirements:

1. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
2. 1.0 credit in:		1.0
NEUR 5100 [1.0]	Fundamentals in Neuroscience	
3. 0.5 credit in:		0.5
NEUR 5201 [0.5]	Foundations in Statistics for Neuroscience	
4. 3.0 credits in:		3.0
NEUR 5909 [3.0]	M.Sc. Thesis (in the specialization)	
Total Credits		5.5

New Resources No New Resources

Summary Add M.Sc. Neuroscience
with Collaborative Specialization in Accessibility

Rationale

Neuroscience is participating in the Collaborative Specialization in Accessibility because much of our research and graduate training has a focus on linking the environment with changes in brain structure and function. We aim to understand how cognitive health may be improved with enriched environments that include novelty, challenge, and engagement. Neuroscientific research can also challenge many assumptions about the accommodation of people with disabilities examining an environment's acoustical and tactical qualities that can help people with little or no sight navigate their surroundings. Faculty members also explore biopsychosocial impacts of disability and statistics related to disability and accessibility. Neuroscience faculty members are deeply engaged in the training of graduate students and welcome students in the Collaborative Specialization in Accessibility. Faculty members including Dr. Kim Hellemans, Dr. John Stead, Dr. Kim Matheson, Dr. Matthew Holahan, Dr. Paul Villeneuve and Dr. Amedeo D'Angiulli all have research programs that are connected with issues of accessibility.

Transition/Implementation n/a - new program

Program reviewer
comments

Key: 2194

New Program Proposal

Date Submitted: 02/21/23 10:08 am

Viewing: **TBD-2195 : Master of Human-Computer Interaction with Collaborative Specialization in Accessibility**

Last edit: 02/22/23 8:53 am

Last modified by: soniachiasson

[Changes proposed by: sandrabauer](#)

In Workflow

1. ACCS ChairDir GR
2. HCI ChairDir GR
3. SCI Dean
4. GRAD Dean
5. PRE GRAD FCC
6. GRAD FCC
7. GRAD FBoard
8. PRE SCCASP
9. SCCASP
10. SQAPC
11. Senate
12. CalEditor

Approval Path

1. 02/21/23 10:08 am
Sandra Bauer
(sandrabauer): Rollback to Initiator
2. 02/21/23 10:12 am
Adrian Chan
(adrianchan): Approved for ACCS ChairDir GR
3. 02/22/23 8:54 am
Sonia Chiasson
(soniachiasson): Approved for HCI ChairDir GR
4. 02/22/23 9:43 am
Yiqiang Zhao
(yiqiangzhao): Approved for SCI Dean
5. 02/24/23 10:18 am
Sandra Bauer
(sandrabauer): Approved for GRAD Dean
6. 02/24/23 10:31 am
Sandra Bauer
(sandrabauer): Approved for PRE GRAD FCC
7. 03/08/23 2:03 pm
Sandra Bauer
(sandrabauer): Approved for GRAD FCC
8. 03/15/23 9:52 am
Sandra Bauer
(sandrabauer): Approved for GRAD FBoard

Effective Date	2023-24
Workflow	majormod
Program Code	TBD-2195
Level	Graduate
Faculty	Faculty of Science
Academic Unit	Human-Computer Interaction Accessibility
Degree	Master of Human-Computer Interaction
Title	Master of Human-Computer Interaction with Collaborative Specialization in Accessibility

Program Requirements

Master of Human-Computer Interaction with Collaborative Specialization in Accessibility (5.5 credits)

Requirements:

1. 0.5 credit in:		0.5
HCIN 5100 [0.5]	Fundamentals of HCI Design and Evaluation	
2. 0.5 credit in:		0.5
HCIN 5200 [0.5]	Software and User Interface Development	
3. 0.5 credit in:		0.5
HCIN 5300 [0.5]	Emerging Interaction Techniques	
4. 0.5 credit from the following, to be selected with the approval of the supervisor		0.5
HCIN 5400 [0.5]	Experimental Methods and Statistics	
HCIN 5403 [0.5]	Research methods in HCI	
HCIN 5404 [0.5]	Design Research Methods	
5. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
6. 2.5 credits in:		2.5
HCIN 5909 [2.5]	Thesis in Human-Computer Interaction (in the specialization)	
Total Credits		5.5

New Resources No New Resources

Summary Add Collaborative Specialization in Accessibility

Rationale Accessibility is an important aspect of human-computer interaction and many of our students are interested in learning more. Several of our faculty members have expertise in various aspects of accessibility and will be able to supervise students taking this specialization.

Transition/Implementation new program

Program reviewer
comments

sandrabauer (02/21/23 10:08 am): Rollback: to adjust workflow

Key: 2195

New Program Proposal

Date Submitted: 02/24/23 12:29 pm

Viewing: **TBD-2204 : Master of Design with Collaborative Specialization in Accessibility**

Last edit: 03/03/23 1:33 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

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

Approval Path

1. 02/24/23 12:46 pm
WonJoon Chung
(wonjoonchung):
Approved for IND
ChairDir GR
2. 02/24/23 12:47 pm
Adrian Chan
(adrianchan): Approved
for ACCS ChairDir GR
3. 02/26/23 11:22 am
Richard Dansereau
(richarddansereau):
Approved for ENG Dean
4. 02/27/23 8:24 am
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
5. 02/27/23 8:28 am
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
6. 03/08/23 2:02 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
7. 03/15/23 9:52 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

Effective Date

2023-24

Workflow	majormod
Program Code	TBD-2204
Level	Graduate
Faculty	Faculty of Engineering and Design
Academic Unit	Accessibility School of Industrial Design
Degree	Master of Design
Title	Master of Design with Collaborative Specialization in Accessibility

Program Requirements

Master of Design with Collaborative Specialization in Accessibility (5.0 credits)

Requirements:

1. 1.5 credits in:		1.5
IDES 5101 [0.5]	Interdisciplinary Design Development Seminar	
IDES 5102 [0.5]	Design Research Methods	
IDES 5103 [0.5]	Interdisciplinary Design Development Studio	
2. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
3. 0.5 credit in elective course		0.5
4. 2.0 credits in:		2.0
IDES 5909 [2.0]	Thesis (in the specialization)	
Total Credits		5.0

New Resources No New Resources

Summary Add M.Design Collaborative Specialization in Accessibility

Rationale Master of Design (MDes) focuses on advancing knowledge in the field of Design through the study of advanced human-centered design principles, design research methodologies and interdisciplinary design practices. The Collaborative Specialization in Accessibility will provide our MDes students the opportunity to explore interdisciplinary approaches for incorporating accessible, inclusive, and human-centered design principles into the research, design, and development of products, services and systems so that the same type of opportunities can be provided to people, regardless of age, gender, or abilities. The potential of a focus on accessibility has been explored over the last years through the seminar course IDES5104 ACCESSIBILITY AND INCLUSIVE DESIGN SEMINAR funded by READi, which received positive feedback from our students. MDes has the capacity to provide supervision for students in the specialization. Prof. Chantal Trudel, Director of Carleton University's Centre for Community Engagement, is a faculty member of the Natural Sciences and Engineering Research Council (NSERC) CREATE Research and Education in Accessibility, Design, and Innovation (READi) program which provides accessibility training and skills to students. Dr. Steven Pong, who

joined our program last year (July 2022), worked as a co-investigator for the three-year project to revise existing national park accessibility standards for individuals with disabilities (of all ages), and to develop recommendations for making the national parks barrier-free by 2040.

Transition/Implementation n/a - new program

Program reviewer
comments

Key: 2204

New Program Proposal

Date Submitted: 02/24/23 12:42 pm

Viewing: **TBD-2205 : M.Sc. Health Sciences
with Collaborative Specialization in
Accessibility**

Last edit: 02/24/23 3:26 pm

Last modified by: martinholcik

[Changes proposed by: sandrabauer](#)

In Workflow

1. ACCS ChairDir GR
2. HLTH ChairDir GR
3. SCI Dean
4. GRAD Dean
5. PRE GRAD FCC
6. GRAD FCC
7. GRAD FBoard
8. PRE SCCASP
9. SCCASP
10. SQAPC
11. Senate
12. CalEditor

Approval Path

1. 02/24/23 12:44 pm
Adrian Chan
(adrianchan): Approved
for ACCS ChairDir GR
2. 02/24/23 3:26 pm
Martin Holcik
(martinholcik): Approved
for HLTH ChairDir GR
3. 02/24/23 3:29 pm
Yiqiang Zhao
(yiqiangzhao): Approved
for SCI Dean
4. 02/24/23 3:43 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
5. 02/27/23 8:27 am
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
6. 03/08/23 2:02 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
7. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

Effective Date 2023-24

Workflow majormod

Program Code	TBD-2205
Level	Graduate
Faculty	Faculty of Science
Academic Unit	Department of Health Sciences Accessibility
Degree	Master of Science
Title	M.Sc. Health Sciences with Collaborative Specialization in Accessibility

Program Requirements

Program Requirements

M.Sc. Health Sciences with Collaborative Specialization in Accessibility (6.0 credits)

Requirements:

1. 1.0 credit in:		1.0
HLTH 5901 [0.5]	Advanced Topics in Interdisciplinary Health Sciences	
HLTH 5902 [0.5]	Seminars in Interdisciplinary Health Sciences for MSc	
2. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
3. 0.0 credit in:		0.0
HLTH 5905 [0.0]	Final Research Seminar Presentation for MSc	
4. 4.0 credits in:		4.0
HLTH 5909 [4.0]	MSc Thesis (in the specialization)	
5. Twice-yearly meetings with the thesis Graduate Advisory Committee, with students meeting a level of progress as determined by the Committee.		
Total Credits		6.0

Note: the final research seminar presentation must be completed within one month of the thesis defence.

New Resources	No New Resources
Summary	Add M.Sc. Health Sciences with Collaborative Specialization in Accessibility
Rationale	Accessibility is an integral part of the interdisciplinary Health Sciences program, both in teaching and research. Our department has, therefore, the supervisory interest, expertise, and capacity to support the anticipated demand for this specialization.
Transition/Implementation	n/a - new program

Program reviewer
comments

New Program Proposal

Date Submitted: 02/24/23 12:52 pm

Viewing: **TBD-2206 : M.Sc. Health: Science, Technology and Policy with Collaborative Specialization in Accessibility**

Last edit: 02/24/23 3:26 pm

Last modified by: martinholcik

[Changes proposed by: sandrabauer](#)

In Workflow

1. ACCS ChairDir GR
2. HLTH ChairDir GR
3. SCI Dean
4. GRAD Dean
5. PRE GRAD FCC
6. GRAD FCC
7. GRAD FBoard
8. PRE SCCASP
9. SCCASP
10. SQAPC
11. Senate
12. CalEditor

Approval Path

1. 02/24/23 1:07 pm
Adrian Chan
(adrianchan): Approved
for ACCS ChairDir GR
2. 02/24/23 3:27 pm
Martin Holcik
(martinholcik): Approved
for HLTH ChairDir GR
3. 02/24/23 3:30 pm
Yiqiang Zhao
(yiqiangzhao): Approved
for SCI Dean
4. 02/24/23 3:43 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
5. 02/27/23 8:28 am
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
6. 03/08/23 2:02 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
7. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

Effective Date 2023-24

Workflow majormod

Program Code	TBD-2206
Level	Graduate
Faculty	Faculty of Science
Academic Unit	Department of Health Sciences Accessibility
Degree	Master of Science
Title	M.Sc. Health: Science, Technology and Policy with Collaborative Specialization in Accessibility

Program Requirements

M.Sc. Health: Science, Technology and Policy with Collaborative Specialization in Accessibility (6.0 credits)

Requirements:

- | | | |
|--|--|-----|
| 1. 1.0 credit in: | | 1.0 |
| ACCS 5001 [0.0] | Critical Disability Studies | |
| ACCS 5002 [0.0] | Accessibility and Inclusive Design Seminar | |
| 2. 3.5 credits in: | | 3.5 |
| HLTH 5100 [0.5] | Fundamentals of Research Methods | |
| HLTH 5150 [0.5] | Statistics for Health Sciences | |
| HLTH 5201 [0.5] | Fundamentals of Policy I: Policy Analysis | |
| HLTH 5300 [0.5] | Knowledge Translation | |
| HLTH 5350 [0.5] | New Health Technologies | |
| HLTH 5401 [0.5] | Interdisciplinary Problems in Health | |
| HLTH 5402 [0.5] | Biological and Social Fundamentals of Health | |
| 3. 1.0 credit from: | | 1.0 |
| HLTH 5505 [1.0] | Interdisciplinary Health Research Project – Individual (in the specialization) | |
| or | | |
| HLTH 5504 [1.0] | Interdisciplinary Health Research Project - Group (in the specialization) | |
| 4. 0.5 credit from: | | 0.5 |
| a. HLTH selected topic elective courses focusing on areas of specific relevance to the health sector | | |
| HLTH 5151 [0.5] | Principles of Epidemiology | |
| HLTH 5202 [0.5] | Fundamentals of Policy II: The Health Sector | |
| HLTH 5600 [0.25] | Special Topics in Biostatistics and Epidemiology | |
| HLTH 5601 [0.25] | Special Topics in Health Policy and Administration | |
| HLTH 5602 [0.25] | Special Topics: Social and Behavioural | |
| HLTH 5603 [0.25] | Special Topics in Environmental Health | |
| HLTH 5604 [0.25] | Special Topics in the Science of Disease | |
| HLTH 5605 [0.25] | Special Topics: Engineering, Design and Computer Science | |
| HLTH 5701 [0.5] | Special Topics in Health Policy and Administration | |
| HLTH 5702 [0.5] | Special Topics: Social and Behavioural | |

HLTH 5703 [0.5]	Special Topics in Environmental Health
HLTH 5704 [0.5]	Special Topics in the Science of Disease
HLTH 5705 [0.5]	Special Topics: Engineering, Design and Computer Science
HLTH 5800 [0.5]	Directed Studies in Health: Science, Technology and Policy
HLTH 5801 [0.5]	Health: Science, Technology and Policy Practicum

b. Courses offered by other graduate programs, selected with the guidance and permission of the supervisor of graduate studies and with the permission of the specific program and requiring the prior completion of prerequisites. Examples include:

BIOL 5407 [0.5]	Biostatistics I
BIOL 5515 [0.5]	Bioinformatics
BIOL 5516 [0.5]	Applied Bioinformatics
BIOL 6406 [0.5]	Genetic Toxicology
BIOM 5100 [0.5]	Biomedical Instrumentation
CHEM 5708 [0.5]	Principles of Toxicology
CHEM 5709 [0.5]	Chemical Toxicology
COMS 5206 [0.5]	Communication, Culture, Regulation
COMP 5308 [0.5]	Topics in Medical Computing
INAF 5705 [0.5]	Global Social Policy
INAF 5706 [0.5]	Global Health Policy
NEUR 5201 [0.5]	Foundations in Statistics for Neuroscience
PADM 5221 [0.5]	Health Policy in Canada
PADM 5222 [0.5]	Economics and Health Policy
PADM 5229 [0.5]	The Health of Populations
PADM 5817 [0.5]	Health Policy in Developing Countries
PHIL 5000 [0.5]	Special Topic in Philosophy
PHYS 5204 [0.5]	Physics of Medical Imaging
PSYC 5209 [0.5]	Topics in Health Psychology
SOC 5209 [0.5]	Sociology of Science and Technology
SOWK 5302 [0.5]	Mental Health
STAT 5600 [0.5]	Mathematical Statistics I
STAT 5501 [0.5]	Mathematical Statistics II
STAT 5602 [0.5]	Analysis of Categorical Data

Total Credits

6.0

New Resources No New Resources

Summary Add MSc Health: Science, Technology and Policy with Collaborative Specialization in Accessibility

Rationale Accessibility is an integral part of the interdisciplinary Health Sciences program, both in teaching and research. Our department has, therefore, the supervisory interest, expertise, and capacity to support the anticipated demand for this specialization.

Transition/Implementation n/a - new program

Program reviewer comments

New Program Proposal

Date Submitted: 02/24/23 2:53 pm

Viewing: **TBD-2207 : M.Eng. Biomedical Engineering with Collaborative Specialization in Accessibility**

Last edit: 02/24/23 2:53 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

1. BIOM ChairDir GR
2. ACCS ChairDir GR
3. SCI Dean
4. ENG Dean
5. GRAD Dean
6. PRE GRAD FCC
7. GRAD FCC
8. GRAD FBoard
9. PRE SCCASP
10. SCCASP
11. SQAPC
12. Senate
13. CalEditor

Approval Path

1. 02/24/23 5:52 pm
Yvan Labiche
(yvanlabiche): Approved for BIOM ChairDir GR
2. 02/24/23 5:54 pm
Adrian Chan
(adrianchan): Approved for ACCS ChairDir GR
3. 03/01/23 5:46 pm
Yiqiang Zhao
(yiqiangzhao): Approved for SCI Dean
4. 03/02/23 3:29 pm
Richard Dansereau
(richarddansereau): Approved for ENG Dean
5. 03/03/23 3:22 pm
Sandra Bauer
(sandrabauer): Approved for GRAD Dean
6. 03/03/23 3:23 pm
Sandra Bauer
(sandrabauer): Approved for PRE GRAD FCC
7. 03/08/23 2:00 pm
Sandra Bauer
(sandrabauer): Approved for GRAD FCC
8. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved for GRAD FBoard

Effective Date	2023-24
Workflow	majormod
Program Code	TBD-2207
Level	Graduate
Faculty	Faculty of Engineering and Design Faculty of Science
Academic Unit	Accessibility Biomedical Engineering
Degree	Master of Engineering
Title	M.Eng. Biomedical Engineering with Collaborative Specialization in Accessibility

Program Requirements

M.Eng. Biomedical Engineering with Collaborative Specialization in Accessibility (5.0 credits)

Requirements - coursework pathway

1. 0.5 credit in:		0.5
BIOM 5010 [0.5]	Introduction to Biomedical Engineering	
2. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
3. 2.0 credits in BIOM (BMG) courses		2.0
4. 0.5 credit in the area of the specialization at either Carleton University or University of Ottawa with the approval of the OCIBME Director or Associate Director		0.5
4. 1.0 credit in elective courses at either Carleton University or University of Ottawa with the approval of the OCIBME Director or Associate Director		1.0
5. 0.0 credit in:		
BIOM 5800 [0.0]	Biomedical Engineering Seminar	
Total Credits		5.0

Requirements - by project:

1. 0.5 credit in:		0.5
BIOM 5010 [0.5]	Introduction to Biomedical Engineering	
2. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
3. 1.5 credits in BIOM (BMG) courses		1.5
4. 0.5 credit in elective courses at either Carleton University or University of Ottawa with the approval of the OCIBME Director or Associate Director		0.5
5. 0.0 credit in:		
BIOM 5800 [0.0]	Biomedical Engineering Seminar	

6. 1.5 credit in:		1.5
<u>BIOM 5900</u> [1.5]	Biomedical Engineering Project (in the specialization)	
Total Credits		5.0
New Resources	No New Resources	
Summary	Add M.Eng. Biomedical Engineering with Collaborative Specialization in Accessibility.	
Rationale	The addition of the collaborative specialization in accessibility was approved by the OCIBME Board of Management. The specialization is relevant to the area of biomedical engineering, particularly as it relates to topics of assistive devices, rehabilitation, and technology to support aging. We have a number of biomedical engineering faculty researchers and students already engaged in accessibility research, and this specialization will a beneficial addition.	
Transition/Implementation	n/a - new program	

Program reviewer comments

New Program Proposal

Date Submitted: 03/03/23 2:36 pm

Viewing: **TBD-2209 : Master of Entrepreneurship - Technology Innovation Management with Collaborative Specialization in Accessibility**

Last edit: 03/05/23 5:35 pm

Last modified by: stevenmuegge

[Changes proposed by: sandrabauer](#)

In Workflow

1. ACCS ChairDir GR
2. TIMG ChairDir GR
3. BUS Dean
4. ENG Dean
5. GRAD Dean
6. PRE GRAD FCC
7. GRAD FCC
8. GRAD FBoard
9. PRE SCCASP
10. SCCASP
11. SQAPC
12. Senate
13. CalEditor

Approval Path

1. 03/03/23 3:05 pm
Adrian Chan
(adrianchan): Approved for ACCS ChairDir GR
2. 03/05/23 5:35 pm
Steven Muegge
(stevenmuegge): Approved for TIMG ChairDir GR
3. 03/10/23 2:33 pm
Robin Ritchie
(robinritchie): Approved for BUS Dean
4. 03/10/23 5:38 pm
Richard Dansereau
(richarddansereau): Approved for ENG Dean
5. 03/13/23 8:54 am
Sandra Bauer
(sandrabauer): Approved for GRAD Dean
6. 03/13/23 10:03 am
Sandra Bauer
(sandrabauer): Approved for PRE GRAD FCC
7. 03/13/23 10:03 am
Sandra Bauer
(sandrabauer): Approved for GRAD FCC
8. 03/15/23 9:52 am
Sandra Bauer

Effective Date	2023-24
Workflow	majormod
Program Code	TBD-2209
Level	Graduate
Faculty	Faculty of Engineering and Design Sprott School of Business
Academic Unit	Technology Innovation Management Program Accessibility
Degree	
Title	Master of Entrepreneurship - Technology Innovation Management with Collaborative Specialization in Accessibility

Program Requirements

Master of Entrepreneurship - Technology Innovation Management with Collaborative Specialization in Accessibility (5.5 credits)

Students in the Master of Entrepreneurship program are required to complete a total of 5.5 credits of which at least 5.0 must be at the 5000-level or above, as follows:

Requirements - Project pathway (5.5 credits)

1. 2.5 credits in:		2.5
TIMG 5001 [0.5]	Principles of Technology Innovation Management	
TIMG 5002 [0.5]	Technology Entrepreneurship	
TIMG 5008 [0.0]	Foundations of Digital Transformation & Entrepreneurship	
TIMG 5205 [0.0]	Customer Value Creation in Technology Firms	
TIMG 5201 [0.5]	Technology and Wealth	
2. 1.0 credit in approved restricted electives in TIMG		1.0
3. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
4. 1.0 credit in:		1.0
TIMG 5905 [1.0]	M.Ent. Project (in the specialization)	
Total Credits		5.5

New Resources No New Resources

Summary Add M.Ent - TIM with Collaborative Specialization in Accessibility

Rationale The addition of the Collaborative Specialization in Accessibility to the Master of Entrepreneurship pathway will appeal to students interested in (1) accessibility for

entrepreneurs (enabling aspiring entrepreneurs that might otherwise be excluded from entrepreneurship) and (2) accessibility entrepreneurship (pursuing entrepreneurial opportunities about accessibility). We have past and current students interested in both areas, and expect that the new collaborative specialization will be attractive to future students, passionate about accessibility, that would otherwise have joined other graduate programs at other universities. Current TIM faculty are capable and interested in supervising accessibility research projects within our existing "TIM Gate Process" for student research.

Transition/Implementation n/a - new program

Program reviewer
comments

New Program Proposal

Date Submitted: 03/08/23 4:12 pm

Viewing: **TBD-2210 : M.A. Legal Studies with Collaborative Specialization in Accessibility**

Last edit: 03/08/23 4:12 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

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

Approval Path

1. 03/08/23 4:20 pm
Adrian Chan
(adrianchan): Approved
for ACCS ChairDir GR
2. 03/09/23 12:20 pm
Zeina Bou-Zeid
(zeinabouzeid): Approved
for LAWS ChairDir GR
3. 03/09/23 12:32 pm
David Mendeloff
(davidmendeloff):
Approved for PA Dean
4. 03/09/23 1:09 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
5. 03/09/23 1:11 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
6. 03/09/23 1:13 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
7. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

Effective Date 2023-24

Workflow majormod

Program Code	TBD-2210
Level	Graduate
Faculty	Faculty of Public Affairs
Academic Unit	Department of Law and Legal Studies Accessibility
Degree	Master of Arts
Title	M.A. Legal Studies with Collaborative Specialization in Accessibility

Program Requirements

M.A. Legal Studies with Collaborative Specialization in Accessibility (5.0 credits)

Requirements - Thesis pathway (5.0 credits)

1. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
2. 1.0 credit in:		1.0
LAWS 5000 [0.5]	Theories of Law and Social Transformation	
LAWS 5001 [0.5]	Legal Method and Social Inquiry	
3. 1.0 credit in LAWS		1.0
4. 2.0 credits in:		2.0
LAWS 5909 [2.0]	M.A. Thesis (in the specialization. Includes an oral examination)	
Total Credits		5.0

Requirements - Research essay pathway (5.0 credits)

1. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
2. 1.0 credit in:		1.0
LAWS 5000 [0.5]	Theories of Law and Social Transformation	
LAWS 5001 [0.5]	Legal Method and Social Inquiry	
3. 2.0 credits in LAWS		2.0
4. 1.0 credit in:		1.0
LAWS 5908 [1.0]	M.A. Research Essay (in the specialization)	
Total Credits		5.0

Requirements - Coursework pathway (5.0 credits)

1. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
2. 1.0 credit in:		1.0
LAWS 5000 [0.5]	Theories of Law and Social Transformation	

3. 2.5 credits in LAWS	2.5
4. 0.5 credit in a course designated as having sufficient accessibility content and approved by the Legal Studies Graduate Supervisor	0.5
Total Credits	5.0

New Resources No New Resources

Summary Add M.A. Legal Studies with Collaborative Specialization in Accessibility.

Rationale

The proposed collaborative specialization will add to our existing offerings at the MA level and will provide students with foundational courses in critical disability studies and accessible and inclusive design. As accessibility is a growing consideration and as more and more students engage with accessibility issues in their academic work, adding this specialization to our current offerings will allow us to meaningfully integrate disability and accessibility knowledge and awareness into our current MA program. The demand for accessibility knowledge is growing, as reflected in students' interests. Adding this specialization to our current MA program will provide an opportunity for students to gain foundational knowledge in disability and accessibility, and may draw more students into our program as we already have Vince Kazmierski, Dawn Moore, and other faculty in LLS that specialize in this area.

Transition/Implementation n/a - new program

Program reviewer comments **sandrabauer (03/09/23 1:13 pm):** P&P eVote March 9

New Program Proposal

Date Submitted: 03/10/23 2:22 pm

Viewing: **TBD-2211 : M.A. Geography with Collaborative Specialization in Accessibility**

Last edit: 03/10/23 2:41 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

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

Approval Path

1. 03/10/23 3:06 pm
Sandra Bauer
(sandrabauer): Approved for GEOG ChairDir GR
2. 03/10/23 3:13 pm
Adrian Chan
(adrianchan): Approved for ACCS ChairDir GR
3. 03/12/23 10:38 pm
Peter Thompson
(peterthompson): Approved for AS Dean
4. 03/13/23 8:54 am
Sandra Bauer
(sandrabauer): Approved for GRAD Dean
5. 03/13/23 10:02 am
Sandra Bauer
(sandrabauer): Approved for PRE GRAD FCC
6. 03/13/23 10:03 am
Sandra Bauer
(sandrabauer): Approved for GRAD FCC
7. 03/13/23 10:04 am
Sandra Bauer
(sandrabauer): Approved for GRAD FBoard
8. 03/13/23 10:05 am
Sandra Bauer
(sandrabauer): Rollback to GRAD FBoard for PRE SCCASP

Effective Date	2023-24
Workflow	majormod
Program Code	TBD-2211
Level	Graduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Accessibility Department of Geography and Environmental Studies
Degree	
Title	M.A. Geography with Collaborative Specialization in Accessibility

Program Requirements

M.A. Geography with Collaborative Specialization in Accessibility (5.5 credits)

Requirements:

1. 1.0 credit in:		1.0
ACCS 5001 [0.0]	Critical Disability Studies	
ACCS 5002 [0.0]	Accessibility and Inclusive Design Seminar	
2. 1.0 credit in:		1.0
GEOG 5000 [0.5]	Approaches to Geographical Inquiry	
GEOG 5905 [0.5]	Masters Research Workshop	
3. 2.5 credits in:		2.5
GEOG 5909 [2.5]	M.A. Thesis (in the specialization and including oral examination of the thesis)	
4. 1.0 credit in	approved graduate-level electives	1.0
5. In addition to the formal requirements, MA students are required to attend the Departmental Seminar series, and the Graduate Field Camp		
Total Credits		5.5

New Resources No New Resources

Summary Add M.A. Geography with Collaborative Specialization in Accessibility

Rationale This collaborative specialization in Accessibility is a welcome addition to the suite of MA Geography collaborative specializations. MA Geography students carry out thesis-based research on a variety of human geography themes that may be examined with an accessibility lens including environmental sustainability, urban geography, social and political change, and innovative research methodologies, among others. DGES has faculty with

expertise in these and other related research areas and are prepared to supervise MA students interested in pursuing research topics in this area of specialization.

Transition/Implementation n/a - new program

Program reviewer
comments **sandrabauer (03/10/23 3:06 pm):** Approved on behalf of GEOG ChairDr at request of P.Ballamingie.
sandrabauer (03/13/23 10:05 am): Rollback: rolled forward in error

Key: 2211

Accessibility Associated minor modifications

Course number	Course title
ACCS 5001	Critical Disability Studies
ACCS 5002	Accessibility and Inclusive Design Seminar

MEMORANDUM

To: Vice-Presidents' Academic and Research Council (VPARC)

From: Alex Wilner, Director, Infrastructure Protection & International Security (IPIS) program
Teddy Samy, Director, Norman Paterson School of International Affairs
Stephanie Carvin, Norman Paterson School of International Affairs (NPSIA)
Leah West, Norman Paterson School of International Affairs (NPSIA)
Jason Jaskolka, Systems and Computer Engineering (SCE)
Ashraf Matrawy, School of Information Technology (SIT)
Michel Barbeau, Director, School of Computer Science (SCS)

cc: Larry Kostiuik, Dean, Faculty of Engineering and Design
Maria DeRosa, Dean, Science
Brenda O'Neill, Dean, Faculty of Public Affairs
Patrice Smith, Dean, Faculty of Graduate and Postdoctoral Affairs
Dan Siddiqi, Associate Dean, Faculty of Graduate and Postdoctoral Affairs

Date: January 10, 2023

Subject: Major Modification Track A: New Collaborative Specialization in Cybersecurity

Modification Description

A new collaborative specialization in the area of cybersecurity at the master's level is being proposed. The collaborative specialization is intended to be interdisciplinary, bridging the study of international affairs and national security, computer science and engineering, and information technology.

The collaborative specialization will entail a new, cross-disciplinary, year-long (1.0 credit) course, compulsory for all students. CYBR 5000 *Science and Social Science of Cybersecurity* will offer students both a general overview of the legal, governance, and strategic considerations of cybersecurity from a Canadian and international perspective *and* a substantive understanding of the computer science and engineering concepts critical to effective cybersecurity operations. CYBR 5000 will be co-taught by one instructor from NPSIA and one from Systems and Computer Engineering (SCE), School of Information Technology (SIT), or School of Computer Science (SCS), or a Contract Instructor from Communications Security Establishment (CSE), which, importantly, already approaches the subject of cybersecurity from the necessary interdisciplinary perspective and has personnel currently teaching at NPSIA.

The specialization will allow for contributing programs to offer either a coursework or research pathway, or both. All pathways will require 1.0 credit in CYBR 5000. For the coursework pathway, students will be required to complete a 0.5 credit elective in an approved course with content relevant to the specialization. Students in the research thesis/essay pathway will complete the specialization by pursuing independent research in an area of cybersecurity.

Impact on Other Programs

To remain competitive with other Canadian universities and attract top-notch graduate students, and to better reflect larger changes taking place within society, Carleton must develop a cross-disciplinary program that bridges the disparate fields related to cybersecurity. The proposed specialization will add a foundational course in cybersecurity to all participating programs while leveraging ongoing and existing teaching and research excellence already taking place at Carleton. This will enrich existing programs in disciplines where cybersecurity is a growing and evolving consideration, while drawing more students to enroll in participating programs at Carleton.

The initial participating programs include:

Program	Faculty	Unit
M.A. International Affairs	FPA	Norman Paterson School of International Affairs
M. Infrastructure Protection & International Security	FPA/CIV	Infrastructure Protection and International Affairs
M.Eng Infrastructure Protection & International Security	FPA/CIV	Infrastructure Protection and International Affairs
M.A.Sc Electrical and Computer Engineering	FED	Department of Systems and Computer Engineering
M.Eng Electrical and Computer Engineering	FED	Department of Systems and Computer Engineering
M.I.T. Information Technology	FED	School of Information Technology
M.C.S	FS	School of Computer Science (SCS)

Impact on Learning Outcomes

Students who have completed the Collaborative Specialization in Cybersecurity will be able to:

1. Understand the cybersecurity challenge in a local, national, international context;
2. Discuss cybersecurity in all of its iterations, including from a geopolitical, national, legal, economic, and policy perspective and from a scientific, engineering, network, and informatics perspective;
3. Forecast the impact of emerging technologies on cybersecurity;
4. Apply a range of interdisciplinary methods for exploring and assessing cybersecurity challenges, opportunities, issues, and solutions;
5. Identify where the cybersecurity risk is most acute, and understand what tools (e.g., technology, legal, policy, financial) are available to address it, when, and in what order;
6. Describe the importance of cybersecurity for Canadian national and economic interests;
7. Identify innovative solutions to a wide range of cyber threats by drawing on the expertise of cybersecurity leaders in the private and the public sector;
8. Provide professional opportunities in a range of cybersecurity fields including in public policy, national security and defence, and engineering, computer science, and information technology.

In sum, Carleton's Cybersecurity Specialization will help develop well-rounded cybersecurity professionals with a range of comprehensive skillsets. It will help foster research into enduring or future

technology and close existing gaps in skills, including in privacy protections, AI and automated cyber defence, open standards, quantum resistant security, and other related topics. Importantly, these issues are emerging in an era where there is growing concern about privacy, surveillance, and human rights within cyberspace; cyber is increasingly used by autocratic regimes as a tool for surveillance, disinformation and misinformation, and repression. Carleton's Cybersecurity Specialization will help students grapple with developing international norms, laws, and standards for cyberspace, and better consider the nexus between human rights, governance, and technology relating to a range of interdisciplinary topics, including, biases in artificial intelligence, cyber systems that are detrimental to marginalized and equity-deserving communities, the ethics of surveillance, and international law in cyber-space.

Societal Need

In the current national and geopolitical context, compounding factors underscore a growing concern for Canada's cybersecurity. The cybersecurity risk Canadians face is increasing year over year, as more individuals and organisations move on-line and more public and private services are digitised.¹ In tandem with this trend, the frequency and complexity of cyber threat are increasing. Statistics Canada has found, for illustration, that the percentage of Canadians reporting a cybersecurity incident rose from 52% in 2018 to 58% in 2020. Among the incidents most often reported were: receiving fraudulent emails or unsolicited spam (49%), getting redirected to fraudulent websites asking for personal information (20%), being targeted by a virus or other computer infection (10%) or being victimised by fraudulent payment card use (7%).² Moreover, an increasing number and range of malicious cyber actors now have relatively easy access to exploitation tools and tradecraft to access networks and on-line information for purposes of intelligence, profit, or intimidation.³ It follows, then, that cyber compromises or incidents have and will continue to have an increased impact on Canadians and Canadian businesses as operations and services are disrupted, privacy is breached, IP or critical information is stolen, critical infrastructure is attacked, recovery costs soar and reputational damage is incurred. Ransomware is a particular pernicious threat. In

¹ Statistics Canada, Canadian Internet Use Survey, 2020; Statistics Canada, Digital Economy and Society Statistics.

² Canadian Internet Use Survey, 2020.

³ Communications Security Establishment (2020), National Cyber Security Threat Assessment, 2020.

2021, 39% of businesses in Canada reported being hit by ransomware with each ransomware attack resulting in estimated average recovery cost of 2 million dollars.⁴

Exacerbating the situation is the global shortage of skills required to support cybersecurity cooperation across government and industry. Both the private sector and the public sector continue to struggle to find the cybersecurity professionals they need. A 2019 survey of IT decision makers across eight countries conducted by the Center for Strategic and Intelligence Studies found that 82% of employers report a shortage of cybersecurity skills, and 71% believe this talent gap causes direct and measurable damage to their organisations.⁵ Canada has not been immune to this skills deficit.⁶ A recent 2021 study conducted by (ISC)², an international non-profit cybersecurity professional association, estimates that Canada will need 25,000 new cybersecurity professionals in 2022-2023.⁷

The cybersecurity skills deficit manifests in two ways. There are a limited number of trained cybersecurity candidates available to hire. Two-thirds (60%) of participants in the (ISC)² study reported that a cybersecurity staffing shortage is placing their organisation at risk. Despite another influx of 700,000 professionals into the cybersecurity workforce, the study shows that global demand for cybersecurity professionals continues to outpace supply — resulting in a cybersecurity workforce gap. Participants reported that when cybersecurity staff is stretched thin, the negative consequences are real: misconfigured systems, slow patch cycles, rushed deployments, not enough time for proper risk assessment, not enough oversight of processes and procedures, and more.⁸

The skills deficit also manifests as a growing concern about the adequacy of the training prospective candidates receive prior to hiring. The (ISC)² report determined that the most effective professional training needs to *blend* technical skills, such as coding and vulnerability detection, with complementary “soft” skills in risk analysis, security governance, law and ethics, governance and policy, and compliance policy development.⁹ Organisations have consistently noted that communication skills, the capacity to work in multi-disciplinary teams, and problem-solving skills are crucial attributes for cybersecurity professionals. Strong communication and writing skills enable these individuals to effectively translate technical insights into comprehensible, actionable direction to management.¹⁰

Canadian governments, industry and academia are all investing in cybersecurity. In the 2022 Federal Budget, over \$850M was allocated to new cybersecurity initiatives on top of \$750M provided in previous years.¹¹ On the surface, it appears that industry is trending toward improved awareness of and investments in cybersecurity. And yet today’s emerging focus is still too narrow in scope: as cybersecurity challenges become more acute, technical skills and vulnerability research receive the lion’s share of attention, at the expense of greater interdisciplinarity. While Canada has recently published an international law statement on the application of international law in cyberspace¹² and tabled legislation for critical cyber systems

⁴ Aimee O’Driscoll, Comparitech Blog Canada Cyber Security and Cyber Crime Statistics (2020-2022) (August 1, 2022); Statistics Canada, The Daily, Types of cyber security incidents that impacted businesses, Canada.

⁵ William Crumpler and James A. Lewis, The Cybersecurity Workforce Gap, Center for Strategic & International Studies, 2019.

⁶ Rob Roshotte, Cybersecurity skills gap weakens cyber defences, IT World Canada, May 30, 2022.

⁷ ISC, Cybersecurity Workforce Study 2021.

⁸ Ibid.

⁹ Ibid.

¹⁰ Supra, Note 1.

¹¹ Government of Canada (2022), Budget 2022: Enhancing Canada’s Cyber Security.

¹² Government of Canada (2022), Canada’s Statement on International Law Applicable in Cyberspace.

protection,¹³ there has been relatively limited public debate in Canada about the legal, ethical, policy and social aspects of cyber security.

Each of these requirements—investment, best practices, research, legal and policy development—are critical. But they are far more powerful when jointly planned and implemented by the full community of public and private sector cybersecurity stakeholders. Crucially, the more mature and integrated the approach, the better the impact, but also the greater the enhancement of Canada’s position as a leader in cybersecurity on the international stage.

What is required is a new, horizontal, integrated, coherent approach where government, industry and academia partner together to create a whole-of-society approach that builds a national culture of cybersecurity. The proposed interdisciplinary cybersecurity specialisation will contribute to this process by offering students an environment that supports the development of the skills, research capability, and thought leadership needed to mature Canada’s cybersecurity capabilities.

Student Demand

There is strong and growing student demand for education in cybersecurity internationally, in Canada, and at Carleton.

First, international university programs dedicated to cybersecurity continue to expand year over year. For illustration, in the United States the number of National Security Agency-designated Centers of Academic Excellence in Cybersecurity has expanded from seven in 2000 to nearly 400 in 2020.¹⁴ Dozens of American universities have likewise recently established M.A. and Ph.D. programs in cybersecurity and related fields, often with support from major gifts and grants. For illustration, Johns Hopkins School of Advanced International Studies (SAIS), in partnership with the co-founder of CrowdStrike, an American cybersecurity and technology company, recently established The Alperovitch Institute for Cybersecurity Studies.¹⁵ Its flagship program, the Master of Arts in Strategy, Cybersecurity, and Intelligence (MASCI), provides students with a one-year, interdisciplinary degree in cybersecurity.¹⁶

Second, a number of Canadian academic institutions have recently begun providing training related to cybersecurity. The government’s Canadian Centre for Cyber Security lists dozens of examples, most in the form of technical diplomas, “microprograms”, and graduate certificates.¹⁷ Several graduate programs stand out, however:

- Concordia University offers both an M.A.Sc and M.Eng in Information Systems Security.¹⁸
- York University’s Professional LLM program includes a distinct specialization in Privacy and Cybersecurity Law.¹⁹
- The University of Toronto’s Identity, Privacy and Security Initiative (IPSI) offers an M.Eng in Communications with a focus on Identity, Privacy, and Security.²⁰

¹³ Bill C-26, An Act respecting cyber security, amending the Telecommunications Act and making consequential amendments to other Acts, 1st Session, 44th Parliament, 2022 (First reading June 14, 2022).

¹⁴ Centers of Academic Excellence, National Centers of Academic Excellence In Cybersecurity, 2022 Edition.

¹⁵ See: <https://alperovitch.sais.jhu.edu/>

¹⁶ See: <https://sais.jhu.edu/academics/master-degrees/master-arts-strategy-cybersecurity-and-intelligence-masci>

¹⁷ See: <https://cyber.gc.ca/en/guidance/appendix-b-post-secondary-cyber-security-related-programs>

¹⁸ See: <https://www.concordia.ca/ginacody/info-systems-eng/programs/information-systems-security/masc.html>

¹⁹ See: <https://osgoodepd.ca/academic-programs/professional-llms/privacy-cybersecurity-law/>

²⁰ See: <http://www.ipsi.utoronto.ca/mengprogram.html>

Both NPSIA and IPIS offer several courses on cybersecurity, and on the emerging nexus between technology, governance, law, economics, and policy. The day-to-day operations of the Collaborative Specialization will be managed by NPSIA's IPIS Director.

A *Cybersecurity Governance Committee* will oversee academic matters related to the specialization (e.g., calendar changes, identifying and recruiting CIs, program expansion, etc.). The governance committee will include the Director and/or a faculty representative from each participating academic program, including IPIS, NPSIA, SCE, SIT, and SCS. The Specialization will also include a *Board of Cybersecurity Advisors*, made up of 7 to 10 public and private sector cybersecurity professionals. Several such professionals have already indicated informally an interest in serving on such a Board, including Shelly Bruce (ret.) Chief, Communications Security Establishment, and Vincent Rigby (ret.), National Security and Intelligence Advisor, Prime Minister of Canada. Advisors will meet annually and as needed to help the Governance Committee better understand the evolving nature of cybersecurity, help fine-tune the specialization's teaching and research focus, help identify and recruit students, fellows, and CIs, and generate collaborative research opportunities.

The required resources for the Collaborative Specialization include one 1.0-credit Contract Instructor to replace faculty instructors and/or to co-teach the core course. This proposal assumes that no new resources are required for administrative staff or course releases for the Director. IPIS administrative staff will be sufficient for the launch of the program.

Sandra Bauer

From: Michel Barbeau
Sent: Monday, November 28, 2022 8:29 PM
To: Sandra Bauer; Dan Siddiqi
Cc: Sandra Bauer; Douglas Howe; Maria DeRosa
Subject: Re: Cybersecurity - response required by Friday Dec 2

Dear Dan and Sandra:

We do support this program. The program will be a great addition to Carleton. The demand for qualified personnel in cybersecurity is expected to be extremely high in the upcoming years.

We are open to participating in the teaching of the core course.

However, at this time, we are involved in several initiatives with limited teaching resources.

I wish we were able to do more, but we cannot commit to providing resources to this new program.

Michel Barbeau (he/his/him)
Professor and Director
School of Computer Science

carleton.ca



From: Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Date: Monday, November 28, 2022 at 1:28 PM
To: Alex Wilner <AlexWilner@cunet.carleton.ca>, Yiagadeesen Samy <YiagadeesenSamy@Cunet.Carleton.Ca>, Leah West <LeahWest3@cunet.carleton.ca>, Stephanie Carvin <StephanieCarvin@cunet.carleton.ca>, Jason Jaskolka <Jason.Jaskolka@carleton.ca>, Ashraf Matrawy <amatrawy@sce.carleton.ca>, Douglas Howe <DouglasHowe@CUNET.CARLETON.CA>, Michel Barbeau <MichelBarbeau@cunet.carleton.ca>, Larry Kostiuk <LarryKostiuk@cunet.carleton.ca>, Maria DeRosa <MariaDerosa@Cunet.Carleton.Ca>, Brenda O'Neill <BrendaONeill@cunet.carleton.ca>
Cc: Dan Siddiqi <DanielSiddiqi@cunet.carleton.ca>, Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Subject: Cybersecurity - response required by Friday Dec 2

Greetings all,

The attached executive summary will be sent to the next VPARC meeting.

We would ask that you review the document and acknowledge receipt/advise if you have any questions or concerns by return email to Dan Siddiqi and me by this Friday, December 2.

Thanks,

Sandra

Sandra Bauer

Subject: FW: Cybersecurity - response required by Friday Dec 2

From: Stephanie Carvin <StephanieCarvin@cunet.carleton.ca>
Sent: Tuesday, December 13, 2022 11:31 AM
To: Dan Siddiqi <DanielSiddiqi@cunet.carleton.ca>; Leah West <LeahWest3@cunet.carleton.ca>; Alex Wilner <AlexWilner@cunet.carleton.ca>
Cc: Douglas Howe <DouglasHowe@CUNET.CARLETON.CA>; Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Subject: Re: Cybersecurity - response required by Friday Dec 2

Thanks, Dan. That's awesome.

Stephanie

From: Dan Siddiqi <DanielSiddiqi@cunet.carleton.ca>
Date: Tuesday, December 13, 2022 at 10:03 AM
To: Stephanie Carvin <StephanieCarvin@cunet.carleton.ca>, Leah West <LeahWest3@cunet.carleton.ca>, Alex Wilner <AlexWilner@cunet.carleton.ca>
Cc: Douglas Howe <DouglasHowe@CUNET.CARLETON.CA>, Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Subject: RE: Cybersecurity - response required by Friday Dec 2

Hi Stephanie and Leah,

<...>

I take from these emails assent to the proposal and you responded so quickly that we still have time to reinstate you without delaying the proposal. So we have done that!

All is well and thank you very very much for your prompt response.

Dan

Daniel Siddiqi
*Associate Dean (Programs), Faculty of Graduate and Postdoctoral Affairs
Professor of Linguistics, School of Linguistics and Language Studies
Carleton University*

*249 Paterson Hall (SLaLS); 512E Tory Hall (FGPA)
613-520-2600 ext 1249 (Paterson); ext 1809 (Tory)*

From: Stephanie Carvin <StephanieCarvin@cunet.carleton.ca>
Sent: Monday, December 12, 2022 11:34:08 PM
To: Leah West <LeahWest3@cunet.carleton.ca>; Dan Siddiqi <DanielSiddiqi@cunet.carleton.ca>; Alex Wilner <AlexWilner@cunet.carleton.ca>

Cc: Douglas Howe <DouglasHowe@CUNET.CARLETON.CA>; Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>

Subject: Re: Cybersecurity - response required by Friday Dec 2

Hi Dan,

I received the email, but at no point was it made clear that we would be excluded from the process if we did not answer you. The email from Sandra makes it sound as if you just wanted to know if we had anything to add, which I did not.

“We would ask that you review the document and acknowledge receipt/advise if you have any questions or concerns by return email to Dan Siddiqi and me by this Friday, December 2.”

Perhaps future communications could make that clear? Or at least re-phrase the last line? I’m teaching three courses this semester and it’s hard to decipher a process I am unfamiliar with.

Thanks

Stephanie

From: Leah West <LeahWest3@cunet.carleton.ca>

Date: Monday, December 12, 2022 at 11:30 PM

To: Dan Siddiqi <DanielSiddiqi@cunet.carleton.ca>

Cc: Stephanie Carvin <StephanieCarvin@cunet.carleton.ca>, Douglas Howe <DouglasHowe@CUNET.CARLETON.CA>, Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>

Subject: Re: Cybersecurity - response required by Friday Dec 2

Hi Dan,

I have no record of receiving this email.

Dr. Leah West
Assistant Professor
Norman Paterson School of International Affairs
Carleton University

On Dec 12, 2022, at 11:55 PM, Dan Siddiqi <DanielSiddiqi@cunet.carleton.ca> wrote:

Hi Leah, Stephanie, and Doug,

I just wanted to reach out and tell you that I never got an acknowledgement from you for this proposal. This is no big deal because each of your units has another signatory so this won’t hold up the proposal, but it does mean that you won’t be included in the “from” line of the document submitted to VPARC. This is just a technicality and doesn’t affect the viability of the proposal.

If you have any questions, feel free to reach out.

Thanks,

Dan

Daniel Siddiqi
*Associate Dean, Programs; Faculty of Graduate and Postdoctoral Affairs
Professor; School of Linguistics and Graduate Studies*

Sandra Bauer

From: Maria DeRosa
Sent: Monday, November 28, 2022 2:57 PM
To: Sandra Bauer
Subject: RE: Cybersecurity - response required by Friday Dec 2

Received thank you!

From: Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Sent: November 28, 2022 1:28 PM
To: Alex Wilner <AlexWilner@cunet.carleton.ca>; Yiagadeesen Samy <YiagadeesenSamy@Cunet.Carleton.Ca>; Leah West <LeahWest3@cunet.carleton.ca>; Stephanie Carvin <StephanieCarvin@cunet.carleton.ca>; Jason Jaskolka <Jason.Jaskolka@carleton.ca>; Ashraf Matrawy <amatrawy@sce.carleton.ca>; Douglas Howe <DouglasHowe@CUNET.CARLETON.CA>; Michel Barbeau <MichelBarbeau@cunet.carleton.ca>; Larry Kostiuik <LarryKostiuik@cunet.carleton.ca>; Maria DeRosa <MariaDerosa@Cunet.Carleton.Ca>; Brenda O'Neill <BrendaONeill@cunet.carleton.ca>
Cc: Dan Siddiqi <DanielSiddiqi@cunet.carleton.ca>; Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Subject: Cybersecurity - response required by Friday Dec 2
Importance: High

Greetings all,

The attached executive summary will be sent to the next VPARC meeting.

We would ask that you review the document and acknowledge receipt/advise if you have any questions or concerns by return email to Dan Siddiqi and me by this Friday, December 2.

Thanks,

Sandra

Sandra Bauer (she/her)
Program Officer/Graduate Calendar Editor
Faculty of Graduate and Postdoctoral Affairs
Telephone: MS Teams

Carleton University acknowledges the location of its campus upon the traditional, unceded territory of the Algonquin Nation.



This email and any files transmitted with it are confidential and intended solely for the individual or entity to whom they are addressed. If you have received this email in error, please notify sandrabauer@cunet.carleton.ca immediately and delete this email from your system. If you are not the named addressee(s), you should not disseminate, distribute, or copy this email. If you are not the intended recipient, you are notified that disclosing, copying, distributing, or taking any action in reliance on the contents of this information is strictly prohibited.

Sandra Bauer

From: Jason Jaskolka <Jason.Jaskolka@carleton.ca>
Sent: Tuesday, November 29, 2022 3:02 PM
To: Sandra Bauer; Dan Siddiqi
Subject: Re: Cybersecurity - response required by Friday Dec 2

Importance: High

Hello Sandra and Dan,

I am confirming receipt of the executive summary document for the upcoming VPARC meeting. I have reviewed the document and I do not have any comments or questions concerns at this time.

Thanks,
Jason

--

Jason Jaskolka, Ph.D., P.Eng.
Associate Professor
Systems and Computer Engineering | Carleton University
Canal Building 6206 | 1125 Colonel By Drive | Ottawa ON K1S 5B6
T +1 (613) 520-2600 Ext. 1873 | <https://carleton.ca/jaskolka/> | [@JasonJaskolka](#)



On Nov 28, 2022, at 1:28 PM, Sandra Bauer <sandra.bauer@carleton.ca> wrote:

Greetings all,

The attached executive summary will be sent to the next VPARC meeting.

We would ask that you review the document and acknowledge receipt/advise if you have any questions or concerns by return email to Dan Siddiqi and me by this Friday, December 2.

Thanks,

Sandra

Sandra Bauer (she/her)
Program Officer/Graduate Calendar Editor
Faculty of Graduate and Postdoctoral Affairs
Telephone: MS Teams

Carleton University acknowledges the location of its campus upon the traditional, unceded territory of the Algonquin Nation.

<image001.jpg>

This email and any files transmitted with it are confidential and intended solely for the individual or entity to whom they are addressed. If you have received this email in error, please notify sandrabauer@cunet.carleton.ca immediately and delete this email from your system. If you are not the named addressee(s), you should not disseminate, distribute, or copy this email. If you are not the intended recipient, you are notified that disclosing, copying, distributing, or taking any action in reliance on the contents of this information is strictly prohibited.

<CyberForVPARC 20221128.docx>

This email contains links to content or websites. Always be cautious when opening external links or attachments.

Please visit <https://carleton.ca/its/help-centre/report-phishing/> for information on reporting phishing messages.

When in doubt, the ITS Service Desk can provide assistance. <https://carleton.ca/its/chat>

Sandra Bauer

From: Larry Kostiuk
Sent: Wednesday, January 11, 2023 8:37 AM
To: Sandra Bauer
Subject: Re: Cybersecurity - response required by Friday Dec 2

Yes, go ahead.

Larry

From: Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Date: Monday, January 9, 2023 at 2:05 PM
To: Larry Kostiuk <LarryKostiuk@cunet.carleton.ca>
Cc: Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Subject: FW: Cybersecurity - response required by Friday Dec 2

Hi Larry,

Are you alright with this going forward to VPARC at this point? We require email confirmation.

Thanks, and happy new year!

S.

Sandra Bauer (she/her)
Program Officer/Graduate Calendar Editor
Faculty of Graduate and Postdoctoral Affairs
Telephone: MS Teams

Carleton University acknowledges the location of its campus upon the traditional, unceded territory of the Algonquin Nation.



This email and any files transmitted with it are confidential and intended solely for the individual or entity to whom they are addressed. If you have received this email in error, please notify sandrabauer@cunet.carleton.ca immediately and delete this email from your system. If you are not the named addressee(s), you should not disseminate, distribute, or copy this email. If you are not the intended recipient, you are notified that disclosing, copying, distributing, or taking any action in reliance on the contents of this information is strictly prohibited.

From: Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Sent: Monday, November 28, 2022 1:28 PM
To: Alex Wilner <AlexWilner@cunet.carleton.ca>; Yiagadeesen Samy <YiagadeesenSamy@Cunet.Carleton.Ca>; Leah West <LeahWest3@cunet.carleton.ca>; Stephanie Carvin <StephanieCarvin@cunet.carleton.ca>; Jason Jaskolka <Jason.Jaskolka@carleton.ca>; Ashraf Matrawy <amatrawy@sce.carleton.ca>; Douglas Howe <DouglasHowe@CUNET.CARLETON.CA>; Michel Barbeau <MichelBarbeau@cunet.carleton.ca>; Larry Kostiuk <LarryKostiuk@cunet.carleton.ca>; Maria DeRosa <MariaDerosa@Cunet.Carleton.Ca>; Brenda O'Neill

<BrendaONeill@cunet.carleton.ca>

Cc: Dan Siddiqi <DanielSiddiqi@cunet.carleton.ca>; Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>

Subject: Cybersecurity - response required by Friday Dec 2

Importance: High

Greetings all,

The attached executive summary will be sent to the next VPARC meeting.

We would ask that you review the document and acknowledge receipt/advise if you have any questions or concerns by return email to Dan Siddiqi and me by this Friday, December 2.

Thanks,

Sandra

Sandra Bauer (she/her)
Program Officer/Graduate Calendar Editor
Faculty of Graduate and Postdoctoral Affairs
Telephone: MS Teams

Carleton University acknowledges the location of its campus upon the traditional, unceded territory of the Algonquin Nation.



This email and any files transmitted with it are confidential and intended solely for the individual or entity to whom they are addressed. If you have received this email in error, please notify sandrabauer@cunet.carleton.ca immediately and delete this email from your system. If you are not the named addressee(s), you should not disseminate, distribute, or copy this email. If you are not the intended recipient, you are notified that disclosing, copying, distributing, or taking any action in reliance on the contents of this information is strictly prohibited.

Sandra Bauer

From: Ashraf Matrawy <amatrawy@sce.carleton.ca>
Sent: Thursday, December 15, 2022 12:03 PM
To: Sandra Bauer
Cc: Rob Teather; Assoc. director - CSIT; Ashraf Matrawy
Subject: Re: Final Cybersecurity executive summary - response required

Hello Sandra

We are fine with the proposal.

Minor correction, our program (Information Technology) is MIT not MA.

Happy holidays.

best,

Ashraf

Ashraf Matrawy, PhD, PEng, SMIEEE
Professor, School of Information Technology
Director, Next Generation Networks Lab
<https://ngn.sce.carleton.ca/>
Faculty of Engineering and Design
Carleton University

Office: 4102CB (Canal Building)
Phone : 613-520-2600 ext. 2901
<http://www.csit.carleton.ca/~amatrawy/>

On 2022-12-12 15:14, Sandra Bauer wrote:

Greetings,

Attached are the final versions of the Cybersecurity executive summary and budget documents.

We are being asked to gather confirmation emails that all of the parties have had an opportunity to review this document.

If you would kindly confirm by the end of the day Wednesday December 14, we will be able to get this to VPARC in time for their January meeting.

Thanks,

Sandra Bauer

From: David Mendeloff
Sent: Wednesday, December 14, 2022 4:09 PM
To: Sandra Bauer
Cc: Dan Siddiqi
Subject: Re: Final Cybersecurity executive summary - response required

Hi Sandra,

I can confirm that Brenda has reviewed this and supports the proposal. Thanks for your work on pulling those changes together.

David

david mendeloff

associate dean (academic), faculty of public affairs
associate professor, norman paterson school international affairs
carleton university | ottawa, canada
tel 613.520.2600 ext 1373

From: Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Date: Monday, December 12, 2022 at 3:14 PM
To: Alex Wilner <AlexWilner@cunet.carleton.ca>, Yiagadeesen Samy <YiagadeesenSamy@Cunet.Carleton.Ca>, Ashraf Matrawy <amatrawy@sce.carleton.ca>, Brenda O'Neill <BrendaONeill@cunet.carleton.ca>
Cc: David Mendeloff <DavidMendeloff@cunet.carleton.ca>, Dan Siddiqi <DanielSiddiqi@cunet.carleton.ca>, Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Subject: Final Cybersecurity executive summary - response required

Greetings,

Attached are the final versions of the Cybersecurity executive summary and budget documents.

We are being asked to gather confirmation emails that all of the parties have had an opportunity to review this document.

If you would kindly confirm by the end of the day Wednesday December 14, we will be able to get this to VPARC in time for their January meeting.

Thanks,

Sandra Bauer (she/her)
Program Officer/Graduate Calendar Editor
Faculty of Graduate and Postdoctoral Affairs
Telephone: MS Teams

- **Absence alert – I will be away for the holidays starting Friday December 16 and through to January 4 ***

Carleton University acknowledges the location of its campus upon the traditional, unceded territory of the Algonquin Nation.

Sandra Bauer

Subject: FW: Cybersecurity - response required by Friday Dec 2

From: Leah West <LeahWest3@cunet.carleton.ca>
Sent: Tuesday, December 13, 2022 11:33 AM
To: Stephanie Carvin <StephanieCarvin@cunet.carleton.ca>
Cc: Dan Siddiqi <DanielSiddiqi@cunet.carleton.ca>; Alex Wilner <AlexWilner@cunet.carleton.ca>; Douglas Howe <DouglasHowe@CUNET.CARLETON.CA>; Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Subject: Re: Cybersecurity - response required by Friday Dec 2

Agreed. Thank you!

Dr. Leah West
Assistant Professor
Norman Paterson School of International Affairs
Carleton University

On Dec 13, 2022, at 6:30 PM, Stephanie Carvin <StephanieCarvin@cunet.carleton.ca> wrote:

Thanks, Dan. That's awesome.

Stephanie

From: Dan Siddiqi <DanielSiddiqi@cunet.carleton.ca>
Date: Tuesday, December 13, 2022 at 10:03 AM
To: Stephanie Carvin <StephanieCarvin@cunet.carleton.ca>, Leah West <LeahWest3@cunet.carleton.ca>, Alex Wilner <AlexWilner@cunet.carleton.ca>
Cc: Douglas Howe <DouglasHowe@CUNET.CARLETON.CA>, Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Subject: RE: Cybersecurity - response required by Friday Dec 2

Hi Stephanie and Leah,

<...>

I take from these emails assent to the proposal and you responded so quickly that we still have time to reinstate you without delaying the proposal. So we have done that!

All is well and thank you very very much for your prompt response.

Dan

Daniel Siddiqi

Sandra Bauer

From: Alex Wilner
Sent: Monday, January 9, 2023 3:04 PM
To: Sandra Bauer
Subject: Re: Final Cybersecurity executive summary - response required

Confirmed. Looks good!

Get [Outlook for Android](#)

From: Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Sent: Monday, January 9, 2023 2:07:30 PM
To: Alex Wilner <AlexWilner@cunet.carleton.ca>
Subject: FW: Final Cybersecurity executive summary - response required

Hi Alex,

We require email confirmation that you have seen this and are in agreement with it to go to VPARC. Can you please confirm?

Thanks and happy new year!

Sandra Bauer (she/her)
Program Officer/Graduate Calendar Editor
Faculty of Graduate and Postdoctoral Affairs
Telephone: MS Teams

Carleton University acknowledges the location of its campus upon the traditional, unceded territory of the Algonquin Nation.



This email and any files transmitted with it are confidential and intended solely for the individual or entity to whom they are addressed. If you have received this email in error, please notify sandrabauer@cunet.carleton.ca immediately and delete this email from your system. If you are not the named addressee(s), you should not disseminate, distribute, or copy this email. If you are not the intended recipient, you are notified that disclosing, copying, distributing, or taking any action in reliance on the contents of this information is strictly prohibited.

From: Sandra Bauer
Sent: Monday, December 12, 2022 3:14 PM
To: Alex Wilner <AlexWilner@cunet.carleton.ca>; Yiagadeesen Samy <YiagadeesenSamy@Cunet.Carleton.Ca>; Ashraf Matrawy <amatrawy@sce.carleton.ca>; Brenda O'Neill <BrendaONeill@cunet.carleton.ca>
Cc: David Mendeloff <DavidMendeloff@cunet.carleton.ca>; Dan Siddiqi <DanielSiddiqi@cunet.carleton.ca>; Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Subject: Final Cybersecurity executive summary - response required

Greetings,

Attached are the final versions of the Cybersecurity executive summary and budget documents.

We are being asked to gather confirmation emails that all of the parties have had an opportunity to review this document.

If you would kindly confirm by the end of the day Wednesday December 14, we will be able to get this to VPARC in time for their January meeting.

Thanks,

Sandra Bauer (she/her)
Program Officer/Graduate Calendar Editor
Faculty of Graduate and Postdoctoral Affairs
Telephone: MS Teams

- Absence alert – I will be away for the holidays starting Friday December 16 and through to January 4 *

Carleton University acknowledges the location of its campus upon the traditional, unceded territory of the Algonquin Nation.



This email and any files transmitted with it are confidential and intended solely for the individual or entity to whom they are addressed. If you have received this email in error, please notify sandrabauer@cunet.carleton.ca immediately and delete this email from your system. If you are not the named addressee(s), you should not disseminate, distribute, or copy this email. If you are not the intended recipient, you are notified that disclosing, copying, distributing, or taking any action in reliance on the contents of this information is strictly prohibited.

This email contains links to content or websites. Always be cautious when opening external links or attachments.

Please visit <https://carleton.ca/its/help-centre/report-phishing/> for information on reporting phishing messages.

When in doubt, the ITS Service Desk can provide assistance. <https://carleton.ca/its/chat>

Sandra Bauer

From: Yiagadeesen Sammy
Sent: Thursday, December 15, 2022 2:50 PM
To: Sandra Bauer
Subject: Re: Final Cybersecurity executive summary - response required

Hi Sandra,

These documents look fine to me. I've just had a chance to finally take a look at the changes and everything looks good.

Thank you.
Teddy

Teddy Y. Sammy
Director/Professor
The Norman Paterson School of International Affairs (NPSIA)
Carleton University
Tel: (613) 520 2600 ext. 1218, Fax: (613) 520 2889
Email: yiagadeesen_samy@carleton.ca or NPSIA.Director@carleton.ca
Websites: <https://teddysamy.com/> & <https://carleton.ca/npsia/people/yiagadeesen-teddy-samy/>

From: Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Sent: Monday, December 12, 2022 3:14 PM
To: Alex Wilner <AlexWilner@cunet.carleton.ca>; Yiagadeesen Sammy <YiagadeesenSamy@Cunet.Carleton.Ca>; Ashraf Matrawy <amatrawy@sce.carleton.ca>; Brenda O'Neill <BrendaONeill@cunet.carleton.ca>
Cc: David Mendeloff <DavidMendeloff@cunet.carleton.ca>; Dan Siddiqi <DanielSiddiqi@cunet.carleton.ca>; Sandra Bauer <SandraBauer@Cunet.Carleton.Ca>
Subject: Final Cybersecurity executive summary - response required

Greetings,

Attached are the final versions of the Cybersecurity executive summary and budget documents.

We are being asked to gather confirmation emails that all of the parties have had an opportunity to review this document.

If you would kindly confirm by the end of the day Wednesday December 14, we will be able to get this to VPARC in time for their January meeting.

Thanks,

Sandra Bauer (she/her)
Program Officer/Graduate Calendar Editor
Faculty of Graduate and Postdoctoral Affairs
Telephone: MS Teams

- Absence alert – I will be away for the holidays starting Friday December 16 and through to January 4 *

New Program Proposal

Date Submitted: 02/21/23 6:25 pm

Viewing: **TBD-2196 : M.C.S. Computer Science with Collaborative Specialization in Cybersecurity**

Last edit: 02/24/23 4:05 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

1. **COMP 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. 02/24/23 4:06 pm
Michel Barbeau
(michelbarbeau):
Approved for COMP
ChairDir GR
2. 03/01/23 5:44 pm
Yiqiang Zhao
(yiqiangzhao): Approved
for SCI Dean
3. 03/02/23 12:15 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
4. 03/03/23 1:45 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
5. 03/08/23 1:58 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
6. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

Effective Date	2023-24
Workflow	majormod
Program Code	TBD-2196
Level	Graduate

Faculty	Faculty of Science
Academic Unit	School of Computer Science Cybersecurity
Degree	Master of Computer Science
Title	M.C.S. Computer Science with Collaborative Specialization in Cybersecurity

Program Requirements

M.C.S. Computer Science with Collaborative Specialization in Cybersecurity (5.0 credits)

Requirements - Research Project pathway (5.0 credits)

1. 1.0 credit in:		1.0
CYBR 5000 [0.0]	Science and Social Science of Cybersecurity	
2. 3.0 credits in course work. Course work must include a minimum of 1.5 credits of OCICS courses in three different research areas (see OCICS course listing by research areas).		3.0
4. 1.0 credit in graduate project (each candidate submitting a project will be required to present a departmental seminar on their project)		1.0
COMP 5903 [1.0]	Graduate Project (M.C.S.) (in the area of the specialization)	
Total Credits		5.0

Requirements - Thesis pathway (5.0 credits)

1. 1.0 credit in:		1.0
CYBR 5000 [0.0]	Science and Social Science of Cybersecurity	
2. 1.5 credits in course work. Course work must include a minimum of 1.5 credits of OCICS courses in three different research areas (see OCICS course listing by research areas).		1.5
3. 2.5 credits in graduate thesis (each candidate submitting a thesis will be required to present a departmental seminar on their thesis)		2.5
COMP 5905 [2.5]	M.C.S. Thesis (in the area of the specialization)	
Total Credits		5.0

New Resources Other

Summary Add Collaborative Specialization to Master of Computer Science.

Rationale Contributing unit - see executive summary

Transition/Implementation new program

Program reviewer comments **sandrabauer (02/22/23 8:32 am)**: Changed to 24-25
sandrabauer (02/23/23 5:13 pm): Change back to 23-24 per MB, proceed prov. upon SCS approval
 March 10

Program Change Request

New Program Proposal

Date Submitted: 02/21/23 6:50 pm

Viewing: **TBD-2197 : M.A.Sc. Electrical and Computer Engineering with Collaborative Specialization in Cybersecurity**

Last edit: 03/18/23 12:52 pm

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. 02/21/23 6:39 pm
Sandra Bauer
(sandrabauer): Rollback to Initiator
2. 02/22/23 8:28 pm
Yvan Labiche
(yvanlabiche): Approved for SYST ChairDir GR
3. 02/26/23 11:35 am
Richard Dansereau
(richarddansereau): Approved for ENG Dean
4. 02/27/23 8:24 am
Sandra Bauer
(sandrabauer): Approved for GRAD Dean
5. 02/27/23 8:27 am
Sandra Bauer
(sandrabauer): Approved for PRE GRAD FCC
6. 03/08/23 1:58 pm
Sandra Bauer
(sandrabauer): Approved for GRAD FCC
7. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved for GRAD FBoard
8. 03/16/23 1:24 pm
Natalie Phelan
(nataliephelan):

Effective Date	2023-24
Workflow	majormod
Program Code	TBD-2197
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 Cybersecurity

Program Requirements

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

Requirements:

1. 1.0 credit in:		1.0
CYBR 5000 [0.0]	Science and Social Science of Cybersecurity	
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 cybersecurity)	
Total Credits		5.0

New Resources Other
No New Resources

Summary Add Collaborative Specialization in Cybersecurity to MASc Electrical and Computer Engineering

Rationale Cybersecurity can be discussed in several aspects of the construction of a computer-based system, including: security at the hardware/embedded level, security at the software level, security of network communications, security of user interfaces. The Department of Systems and Computer Engineering has sufficient resources to offer courses and supervisory capability in these areas.

Transition/Implementation new program

Program reviewer comments **sandrabauer (02/21/23 6:39 pm):** Rollback: for further editing
sandrabauer (03/18/23 12:52 pm): Rationale added

Program Change Request

New Program Proposal

Date Submitted: 02/21/23 6:48 pm

Viewing: **TBD-2198 : M.Eng. Electrical and Computer Engineering with Collaborative Specialization in Cybersecurity**

Last edit: 03/18/23 12:51 pm

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. 02/22/23 8:28 pm
Yvan Labiche
(yvanlabiche): Approved for SYST ChairDir GR
2. 02/26/23 11:35 am
Richard Dansereau
(richarddansereau): Approved for ENG Dean
3. 02/27/23 8:24 am
Sandra Bauer
(sandrabauer): Approved for GRAD Dean
4. 02/27/23 8:27 am
Sandra Bauer
(sandrabauer): Approved for PRE GRAD FCC
5. 03/08/23 2:01 pm
Sandra Bauer
(sandrabauer): Approved for GRAD FCC
6. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved for GRAD FBoard
7. 03/16/23 1:24 pm
Natalie Phelan
(nataliephelan): Approved for PRE SCCASP

Effective Date	2023-24
Workflow	majormod
Program Code	TBD-2198
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 Cybersecurity

Program Requirements

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

Requirements - by project (4.5 credits)

1. 0.5 credit in:		0.5
SYSC 5902 [0.5]	Research Methods for Engineers	
2. 1.0 credit in:		1.0
CYBR 5000 [0.0]	Science and Social Science of Cybersecurity	
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 cybersecurity)	
Total Credits		4.5

Requirements - coursework pathway (4.5 credits)

1. 0.5 credit in:		0.5
SYSC 5902 [0.5]	Research Methods for Engineers	
1. 1.0 credit in:		1.0
CYBR 5000 [0.0]	Science and Social Science of Cybersecurity	
4. 3.0 credits in courses, including 0.5 credit in approved elective in the area of the specialization		3.0
Total Credits		4.5

New Resources	Other
Summary	Add Collaborative Specialization to M.Eng. Electrical and Computer Engineering with Collaborative Specialization in Cybersecurity
Rationale	Cybersecurity can be discussed in several aspects of the construction of a computer-based system, including: security at the hardware/embedded level, security at the software level, security of network communications, security of user interfaces. The Department of Systems and Computer Engineering has sufficient resources to offer courses and supervisory capability in these areas.

Transition/Implementation new program

Program reviewer
comments

sandrabauer (03/18/23 12:51 pm): Rationale added.

Key: 2198

New Program Proposal

Date Submitted: 02/24/23 4:51 pm

Viewing: **TBD-2200 : M. Infrastructure Protection and International Security with Collaborative Specialization in Cybersecurity**

Last edit: 03/03/23 1:45 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

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

Approval Path

1. 02/24/23 5:31 pm
Alex Wilner (alexwilner):
Approved for CYBR
ChairDir GR
2. 02/24/23 5:32 pm
Alex Wilner (alexwilner):
Approved for IPIS
ChairDir GR
3. 02/27/23 9:17 am
David Mendeloff
(davidmendeloff):
Approved for PA Dean
4. 02/27/23 10:04 am
Richard Dansereau
(richarddansereau):
Approved for ENG Dean
5. 03/02/23 12:15 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
6. 03/03/23 1:46 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
7. 03/08/23 1:56 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
8. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

Effective Date	2023-24
Workflow	majormod
Program Code	TBD-2200
Level	Graduate
Faculty	Faculty of Engineering and Design Faculty of Public Affairs
Academic Unit	Infrastructure Protection and International Security Cybersecurity
Degree	Master of Infrastructure Protection and International Security
Title	M. Infrastructure Protection and International Security with Collaborative Specialization in Cybersecurity

Program Requirements

Program Requirements

M. Infrastructure Protection and International Security with Collaborative Specialization in Cybersecurity(5.0 credits)

Requirements:

- | | | |
|---|---|-----|
| 1. 1.0 credit in: | | 1.0 |
| CYBR 5000 [0.0] | Science and Social Science of Cybersecurity | |
| 2. 2.0 credits in: | | 2.0 |
| IPIS 5101 [0.5] | Critical Infrastructure Protection: Issues and Strategies | |
| IPIS 5103 [0.5] | Infrastructure Engineering Principles | |
| IPIS 5105 [0.5] | Critical Infrastructure Risk Assessment | |
| IPIS 5106 [0.5] | Management of Critical Infrastructure | |
| 3. 1.0 credit from: | | 1.0 |
| IPIS 5104 [0.5] | Terrorism and International Security | |
| IPIS 5301 [0.5] | Disarmament, Arms Control and Nonproliferation | |
| IPIS 5302 [0.5] | Contemporary International Security | |
| IPIS 5303 [0.5] | Intelligence Statecraft and International Affairs | |
| IPIS 5304 [0.5] | Intelligence and National Security: Policies and Operations | |
| IPIS 5305 [0.5] | National Security Policy and Law | |
| IPIS 5306 [0.5] | Emergency and Business Continuity Management | |
| IPIS 5320 [0.5] | Topics in Infrastructure Security Policy | |
| Or 5000-level courses from the IIA or SDP designated fields offered by the Norman Paterson School of International Affairs. | | |
| 4. 0.5 credit from: | | 0.5 |
| IPIS 5501 [0.5] | Transportation and Aviation Security | |
| IPIS 5504 [0.5] | Fundamentals of Fire Safety | |

IPIS 5505 [0.5]	Natural Hazards in Canada: Risk and Impact
IPIS 5507 [0.5]	Blast-load Effects on Structures
IPIS 5508 [0.5]	Introduction to Explosives and Explosion Effects as they relate to Infrastructure and its Components
IPIS 5509 [0.5]	Introduction to Cybersecurity
IPIS 5520 [0.5]	Selected Topics in Engineering of Critical Infrastructure

5. 0.5 credit in elective in the area of the specialization, selected in consultation with, and approved by, the MIPIS Director and Associate Director and associated faculty when necessary. 0.5

Total Credits 5.0

New Resources	No New Resources
Summary	Add M. Infrastructure Protection and International Security with Collaborative Specialization in Cybersecurity
Rationale	see executive summary
Transition/Implementation	n/a- new program

Program reviewer comments **sandrabauer (03/03/23 1:02 pm):** NOTE: new courses (CYBR 5000) will show as 0.0 credit until final approval. Credit value will automatically populate following approval and posting to Banner/CourseLeaf

Program Change Request

New Program Proposal

Date Submitted: 02/24/23 3:13 pm

Viewing: **TBD-2201 : M.A. International Affairs
with Collaborative Specialization in
Cybersecurity**

Last edit: 03/17/23 3:59 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

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

Approval Path

1. 02/24/23 4:41 pm
Alex Wilner (alexwilner):
Approved for CYBR
ChairDir GR
2. 03/10/23 3:30 pm
Coleen Kornelsen
(coleenkornelsen):
Approved for INAF
ChairDir GR
3. 03/11/23 10:00 am
David Mendeloff
(davidmendeloff):
Approved for PA Dean
4. 03/13/23 8:54 am
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
5. 03/15/23 10:44 am
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
6. 03/15/23 10:45 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
7. 03/15/23 10:47 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard
8. 03/16/23 1:25 pm

Effective Date	2023-24
Workflow	majormod
Program Code	TBD-2201
Level	Graduate
Faculty	Faculty of Public Affairs
Academic Unit	Norman Paterson School of International Affairs Cybersecurity
Degree	Master of Arts
Title	M.A. International Affairs with Collaborative Specialization in Cybersecurity

Program Requirements

M.A. International Affairs with Collaborative Specialization in Cybersecurity (5.0 credits)

Requirements - Thesis pathway

- | | | |
|--|---|-----|
| 1. 1.0 credit in: | | 1.0 |
| CYBR 5000 [0.0] | Science and Social Science of Cybersecurity | |
| 2. 1.5 credits in: | | 1.5 |
| INAF 5015 [0.5] | Research Design and Methods for International Affairs | |
| 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 5221 [0.5] | Economics of Security and Intelligence | |
| 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. Successful completion of second language proficiency examination (See Note 3, below) | | |

Total Credits		5.0
Requirements - Research essay pathway:		
1. 1.0 credit in:		1.0
CYBR 5000 [0.0]	Science and Social Science of Cybersecurity	
2. 1.5 credit in:		1.5
INAF 5015 [0.5]	Research Design and Methods for International Affairs	
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 5221 [0.5]	Economics of Security and Intelligence	
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. 1.0 credits in Field and Elective courses (See Note 2, below)		1.0
6. Successful completion of second language proficiency examination (see Note 3, below)		
Total Credits		5.0
Requirements - Coursework pathway (5.0 credits)		
1. 1.0 credit in:		1.0
CYBR 5000 [0.0]	Science and Social Science of Cybersecurity	
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 5221 [0.5]	Economics of Security and Intelligence	
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. 0.5 credit in courses in the area of the specialization and approved by the NPSIA M.A. Program Supervisor or Associate Director as being relevant to the student's program of study.		0.5
5. 2.0 credits in Field and Elective courses (See Note 2, below)		2.0
6. Successful completion of second language proficiency examination (see Note 3, below)		
Total Credits		5.0

1. 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.
2. 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.
 3. 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

Add M.A. International Affairs with Collaborative Specialization in Cybersecurity

Rationale

Cybersecurity has emerged as an important cornerstone of international affairs and governance, national security, intelligence, and defence, and law, economics, and diplomacy. The Cyber Specialization will provide NPSIA students with access to the interdisciplinary study of cybersecurity, better preparing them for the emerging reality of contemporary policymaking. NPSIA faculty working on cybersecurity include Dr. Alex Wilner, Dr. Stephanie Carvin, Dr. Leah West, and Dr. Stephen Saideman – all of whom have secured external research funding related to cybersecurity – and a forthcoming Tier 2 Canada Research Chair on Cybersecurity. The department has likewise successfully supervised both Ma and PhD level students within the study of cybersecurity and on the nexus between emerging technology, governance, and policy.

Transition/Implementation N/A - new program

Program reviewer comments

sandrabauer (03/03/23 1:02 pm): NOTE: new courses (CYBR 5000) will show as 0.0 credit until final approval. Credit value will automatically populate following approval and posting to Banner/CourseLeaf.
sandrabauer (03/17/23 3:59 pm): Added rationale

New Program Proposal

Date Submitted: 02/23/23 4:48 pm

Viewing: **TBD-2202 : Master of Information Technology: Digital Media with Collaborative Specialization in Cybersecurity**

Last edit: 03/03/23 1:04 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

1. BIT 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. 02/24/23 3:58 pm
Rob Teather (robteather):
Approved for BIT
ChairDir GR
2. 02/26/23 11:35 am
Richard Dansereau
(richarddansereau):
Approved for ENG Dean
3. 02/27/23 8:24 am
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
4. 02/27/23 8:28 am
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
5. 03/08/23 2:03 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
6. 03/15/23 9:52 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

Effective Date	2023-24
Workflow	majormod
Program Code	TBD-2202
Level	Graduate

Faculty	Faculty of Engineering and Design
Academic Unit	School of Information Technology
Degree	Master of Information Technology
Title	Master of Information Technology: Digital Media with Collaborative Specialization in Cybersecurity

Program Requirements

Master of Information Technology: Digital Media with Collaborative Specialization in Cybersecurity (5.0 credits)

Requirements:

1. 1.0 credit in:		1.0
CYBR 5000 [0.0]	Science and Social Science of Cybersecurity	
2. 0.5 credit in:		0.5
ITEC 5002 [0.5]	Fundamentals of Information Technology Research	
3. 0.0 credit in:		
ITEC 5001 [0.0]	Information Technology Seminars	
4. 1.0 credit from core courses:		1.0
ITEC 5200 [0.5]	Entertainment Technologies	
ITEC 5201 [0.5]	Computer Animation Technologies	
ITEC 5202 [0.5]	Visual Effects Technologies	
ITEC 5203 [0.5]	Game Design and Development Technologies	
ITEC 5204 [0.5]	Emerging Interaction Techniques	
ITEC 5205 [0.5]	Design and Development of Data-Intensive Applications	
ITEC 5206 [0.5]	Data Protection and Rights Management	
ITEC 5207 [0.5]	Data Interaction Techniques	
ITEC 5208 [0.5]	Virtual Reality and 3D User Interfaces	
ITEC 5920 [0.5]	Special Topics in Digital Media	
5. 2.5 credits in:		2.5
ITEC 5909 [2.5]	Master's Thesis (in the area of specialization)	
Total Credits		5.0

New Resources No New Resources

Summary Add Collaborative Specialization in Cybersecurity to MIT-Digital Media

Rationale The addition of the collaborative specialization in Cybersecurity is supported by strong student interest and growing societal need for expertise in these topics. The School of Information Technology has several faculty conducting research in these areas, primarily in the Network Technology stream, but increasingly in the Digital Media stream. Thus there are several faculty to supervise interested students, and course offerings relevant to students interested in these topics offered by the School.

Transition/Implementation n/a - new program

Program reviewer
comments

richarddansereau (02/26/23 11:33 am): At the end of the program, is "Note: No additional IT seminar requirements for this stream." necessary? The program includes ITEC 5001 already. It looks like this sentence may have been copied from the collaborative specialization in data science program for the Master of Information Technology.

sandrabauer (03/03/23 1:05 pm): per R.Dansereau comment above, the note has been deleted.

New Program Proposal

Date Submitted: 02/23/23 4:57 pm

Viewing: **TBD-2203 : Master of Information Technology: Network Technology with Collaborative Specialization in Cybersecurity**

Last edit: 03/03/23 1:05 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

1. BIT 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. 02/24/23 3:58 pm
Rob Teather (robteather):
Approved for BIT
ChairDir GR
2. 02/26/23 11:35 am
Richard Dansereau
(richarddansereau):
Approved for ENG Dean
3. 02/27/23 8:24 am
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
4. 02/27/23 8:28 am
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
5. 03/08/23 2:03 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
6. 03/15/23 9:52 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

Effective Date	2023-24
Workflow	majormod
Program Code	TBD-2203
Level	Graduate

Faculty	Faculty of Engineering and Design
Academic Unit	School of Information Technology
Degree	Master of Information Technology
Title	Master of Information Technology: Network Technology with Collaborative Specialization in Cybersecurity

Program Requirements

Master of Information Technology: Network Technology with Collaborative Specialization in Cybersecurity (5.0 credits)

Requirements - Coursework pathway:

1. 1.0 credit in:		1.0
CYBR 5000 [0.0]	Science and Social Science of Cybersecurity	
2. 0.5 credit in:		0.5
ITEC 5002 [0.5]	Fundamentals of Information Technology Research	
3. 0.0 credit in:		
ITEC 5001 [0.0]	Information Technology Seminars	
4. 2.0 credits from core courses:		2.0
ITEC 5100 [0.5]	Planning and Design of Computer Networks	
ITEC 5101 [0.5]	Cross Layer Design for Wireless Multimedia Networks	
ITEC 5102 [0.5]	Designing Secure Networking and Computer Systems	
ITEC 5103 [0.5]	Cloud and Datacentre Networking	
ITEC 5205 [0.5]	Design and Development of Data-Intensive Applications	
ITEC 5910 [0.5]	Special Topics in Network Technologies	
5. 0.5 credit in the area of the specialization, approved by the graduate supervisor or the Associate Director of Graduate Studies in the School.		0.5
6. 1.0 credit in ITEC electives, which may include up to 0.5 credit in a 4000-level ITEC course with permission from the graduate supervisor or the Associate Director of Graduate Studies in the School.		1.0
Total Credits		5.0

Requirements - Thesis pathway:

1. 1.0 credit in:		1.0
CYBR 5000 [0.0]	Science and Social Science of Cybersecurity	
2. 0.5 credit in:		0.5
ITEC 5002 [0.5]	Fundamentals of Information Technology Research	
3. 0.0 credit in:		
ITEC 5001 [0.0]	Information Technology Seminars	
4. 1.0 credit from core courses:		1.0
ITEC 5010 [0.5]	Applied Programming I	
ITEC 5100 [0.5]	Planning and Design of Computer Networks	
ITEC 5101 [0.5]	Cross Layer Design for Wireless Multimedia Networks	
ITEC 5102 [0.5]	Designing Secure Networking and Computer Systems	
ITEC 5103 [0.5]	Cloud and Datacentre Networking	

ITEC 5205 [0.5]	Design and Development of Data-Intensive Applications	
ITEC 5910 [0.5]	Special Topics in Network Technologies	
5. 2.5 credits in:		2.5
ITEC 5909 [2.5]	Master's Thesis (in the area of the specialization)	
Total Credits		5.0

New Resources No New Resources

Summary MIT: Network Technology - add Collaborative Specialization in Cybersecurity

Rationale The addition of the collaborative specialization in Cybersecurity is supported by strong student interest and growing societal need for expertise in these topics. The School of Information Technology has several faculty conducting research in these areas, primarily in the Network Technology stream, but increasingly in the Digital Media stream. Thus there are several faculty to supervise interested students, and course offerings relevant to students interested in these topics offered by the School.

Transition/Implementation new program

Program reviewer
comments

Cybersecurity Associate Minor Modification

Course number	Course title
CYBR 5000	Science and Social Science of Cybersecurity

MEMORANDUM

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

From: Michel Barbeau
Director, School of Computer Science
DSA Program Director

CC: Maria DeRosa, Dean, Faculty of Science
Larry Kostiuk, Dean, Faculty of Engineering and Design
Dan Siddiqi, Associate Dean (Programs), Faculty of Graduate and Postdoctoral Affairs
Patrice Smith, Dean, Faculty of Graduate and Postdoctoral Affairs
James Green, DSA GC member, Systems and Computer Engineering
Omair Shafiq, DSA GC member, School of Information Technology
Shirley Mills, DSA GC member, School of Mathematics and Statistics

Date: November 21, 2022

**Subject: Change of Program Name: Data Science and Analytics Masters and Ph.D. programs
(Major Modification Track A1)**

Modification Description

The Data Science and Analytics Masters and Ph.D. programs will be renamed Data Science, Analytics, and AI.

This change affects the following programs:

1. M.A.Sc. Data Science and Analytics
2. M.C.S. Data Science and Analytics
3. M.Eng. Data Science and Analytics
4. M.I.T. Data Science and Analytics
5. M.Sc. Data Science and Analytics
6. Ph.D. Data Science and Analytics

Principal rationale for curricular changes

The current name of the Data Science and Analytics Masters and Ph.D. does not reflect the program's content, mandatory courses, and learning outcomes. The content of the mandatory DATA 5000 course covers key AI concepts such as machine learning, deep learning, and natural language processing. Therefore, the proposed modification aims to better reflect the current program content, course, and the skills acquired by the students.

Description of changes to program structure

There are no changes to the structure of the master's and Ph.D. programs.

Impact on Other Programs

No impact on other programs and/or other academic units at Carleton is foreseen.

Societal Need

The societal need is unchanged.

Students

Adding “Artificial Intelligence” (AI) to the program names will be more appealing to more applicants. Graduates with data science and AI skills are in high demand.

Resources

No changes to resources are required.

Date Submitted: 02/07/23 3:24 pm

Viewing: **TBD-1946 : M.A.Sc. Data Science,
Analytics, Science and Artificial Intelligence
~~Analytics M.A.Sc.~~**

Last approved: 06/10/22 2:26 pm

Last edit: 03/08/23 1:57 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

1. COMP 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. 02/07/23 3:27 pm
Michel Barbeau
(michelbarbeau):
Approved for COMP
ChairDir GR
2. 02/07/23 3:59 pm
Yiqiang Zhao
(yiqiangzhao): Approved
for SCI Dean
3. 02/16/23 1:08 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
4. 02/16/23 1:19 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
5. 02/16/23 1:24 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
6. 02/16/23 1:31 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard
7. 03/01/23 3:21 pm
Sandra Bauer
(sandrabauer): Rollback
to PRE GRAD FCC for PRE
SCCASP
8. 03/01/23 3:38 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC

9. 03/08/23 1:58 pm
 Sandra Bauer
 (sandrabauer): Approved
 for GRAD FCC

10. 03/15/23 9:51 am
 Sandra Bauer
 (sandrabauer): Approved
 for GRAD FBoard

History

1. Jul 15, 2021 by Sandra Bauer (sandrabauer)
2. Jun 10, 2022 by Natalie Phelan (nataliephelan)

Calendar Pages Using this Program [Data Science and Analytics](#)

Effective Date	2023-24
Workflow	majormod minormod
Program Code	TBD-1946
Level	Graduate
Faculty	Faculty of Science
Academic Unit	Department School of Systems and Computer Engineering Science School of Computer Science
Degree	Not Applicable
Title	M.A.Sc. Data Science, Analytics Science and Artificial Intelligence Analytics M.A.Sc.

Program Requirements

M.A.Sc. Data [Science, Analytics](#), [Science](#) and [Artificial Intelligence](#) [Analytics](#) (5.0 credits)

M.A.Sc. Data Science, Analytics, and Artificial Intelligence - Thesis pathway (5.0 credits)

- | | | |
|---------------------------------|---|-----|
| 1. 1.0 credit in: | | 1.0 |
| DATA 5000 [0.5] | Data Science Seminar | |
| DATA 5001 [0.5] | Fundamentals in Data Science and Analytics | |
| 2. 0.5 credit in | approved SYSC electives (see DSAAI program website for list of applicable electives) | 0.5 |
| 3. 0.5 credit in | approved electives not in SYSC (see DSAAI program website for list of applicable electives) | 0.5 |
| 4. 0.5 credit in | elective from any participating DSAAI unit | 0.5 |

[Note: 0.5 credit from above electives must be in applications of artificial intelligence in machine learning \(see DSAAI program website for list of applicable electives\)](#)

5. 2.5 credits in:		2.5
DATA 5929 [2.5]	Thesis - MASc	
Total Credits		5.0
New Resources	No New Resources	
Summary	<p>1) Change name (add Artificial Intelligence) P&P approved Jan 24, GFB approved Feb 15 New:</p> <p>2) replace ref to lists below to DSAAI program page</p> <p>3) add stipulation of 0.5 credit in AI/ML</p>	
Rationale for change	<p>1) The current name of the Data Science and Analytics Master's and Ph.D. does not reflect the program's content, mandatory courses, and learning outcomes. The content of the mandatory (master's) DATA 5000 and (master's and PhD) DATA 5001 courses cover key AI concepts such as machine learning, deep learning, and natural language processing. Therefore, the proposed modification aims to better reflect the current program content, course, and the skills acquired by the students. 2) To facilitate timely updates 3) To satisfy a requirement for the recognition of the program by the Vector Institute.</p>	
Transition/Implementation		
Program reviewer comments	<p>sandrabauer (02/16/23 1:18 pm): P&P approved Jan 24, GFB approved Feb 15</p> <p>sandrabauer (03/01/23 3:21 pm): Rollback: further modifications</p>	

Date Submitted: 02/07/23 3:24 pm

Viewing: **TBD-1947 : Ph.D. Data Science, Analytics, Science and Artificial Intelligence ~~Analytics-Ph.D.~~**

Last approved: 04/29/22 2:29 pm

Last edit: 02/07/23 3:24 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

1. COMP 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. 02/07/23 3:28 pm
Michel Barbeau
(michelbarbeau):
Approved for COMP
ChairDir GR
2. 02/07/23 3:59 pm
Yiqiang Zhao
(yiqiangzhao): Approved
for SCI Dean
3. 02/16/23 1:09 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
4. 02/16/23 1:20 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
5. 02/16/23 1:24 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
6. 02/16/23 1:33 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard
7. 03/15/23 10:42 am
Sandra Bauer
(sandrabauer): Approved
for PRE SCCASP
8. 03/15/23 10:48 am
Sandra Bauer
(sandrabauer): Rollback
to PRE SCCASP for
SCCASP

History

1. Sep 2, 2021 by Sandra Bauer (sandrabauer)
2. Apr 27, 2022 by Sandra Bauer (sandrabauer)
3. Apr 27, 2022 by Sandra Bauer (sandrabauer)
4. Apr 29, 2022 by Sandra Bauer (sandrabauer)

Calendar Pages Using this Program [Data Science and Analytics](#)

Effective Date	2023-24
Workflow	majormod minormod
Program Code	TBD-1947
Level	Graduate
Faculty	Faculty of Science
Academic Unit	School of Computer Science
Degree	Doctor of Philosophy
Title	Ph.D. Data Science, Analytics, Science and Artificial Intelligence Analytics Ph.D.

Program Requirements

Ph.D. Data [Science, Analytics, Science](#) and [Artificial Intelligence Analytics](#) (1.5 credits)

~~Requirements (1.5 credits)~~

Requirements (1.5 credits):

1. 0.5 credit in:		0.5
DATA 5001 [0.5]	Fundamentals in Data Science and Analytics	
2. 1.0 credit in elective, approved by supervisor (see lists below)		1.0
3. 0.0 credit in Comprehensive Exam		
4. 0.0 credit in Thesis Proposal		
5. 0.0 credit in:		0.0
DATA 6909 [0.0]	Thesis - PhD	
Total Credits		1.5

New Resources No New Resources

Summary Change name (add Artificial Intelligence)

Rationale for change

The current name of the Data Science and Analytics Master's and Ph.D. does not reflect the program's content, mandatory courses, and learning outcomes. The content of the mandatory (master's) DATA 5000 and (master's and PhD) DATA 5001 courses cover key AI concepts such as machine learning, deep learning, and natural language processing. Therefore, the proposed modification aims to better reflect the current program content, course, and the skills acquired by the students.

Transition/Implementation

Program reviewer
comments

sandrabauer (02/16/23 1:20 pm): P&P approved Jan 24, GFB approved Feb 15
sandrabauer (03/15/23 10:48 am): Rollback: Accidentally rolled forward

Date Submitted: 02/07/23 3:25 pm

Viewing: **TBD-2068 : M.C.S. Data Science,
Analytics, Science and Artificial Intelligence
~~Analytics M.C.S.~~**

Last approved: 06/10/22 2:27 pm

Last edit: 03/08/23 1:59 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

1. COMP 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. 02/07/23 3:27 pm
Michel Barbeau
(michelbarbeau):
Approved for COMP
ChairDir GR
2. 02/07/23 3:59 pm
Yiqiang Zhao
(yiqiangzhao): Approved
for SCI Dean
3. 02/16/23 1:08 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
4. 02/16/23 1:19 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
5. 02/16/23 1:24 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
6. 02/16/23 1:31 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard
7. 03/01/23 3:04 pm
Sandra Bauer
(sandrabauer): Rollback
to PRE GRAD FCC for PRE
SCCASP
8. 03/01/23 3:39 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC

- 9. 03/08/23 1:59 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
- 10. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

History

- 1. Sep 2, 2021 by Sandra Bauer (sandrabauer)
- 2. Jun 10, 2022 by Natalie Phelan (nataliephelan)

Calendar Pages Using this Program [Data Science and Analytics](#)

Effective Date	2023-24
Workflow	majormod minormod
Program Code	TBD-2068
Level	Graduate
Faculty	Faculty of Science
Academic Unit	School of Computer Science
Degree	Master of Computer Science
Title	M.C.S. Data Science, Analytics, Science and Artificial Intelligence Analytics M.C.S.

Program Requirements

M.C.S. Data [Science, Analytics, Science](#) and [Artificial Intelligence Analytics](#) (5.0 credits)

M.C.S. Data Science, Analytics, and Artificial Intelligence - Thesis pathway (5.0 credits)

- | | |
|---|-----|
| 1. 1.0 credit in: | 1.0 |
| DATA 5000 [0.5] Data Science Seminar | |
| DATA 5001 [0.5] Fundamentals in Data Science and Analytics | |
| 2. 0.5 credit in approved COMP electives (see DSAAI program website for list of applicable electives) | 0.5 |
| 3. 0.5 credit in approved electives not in COMP (see DSAAI program website for list of applicable electives) | 0.5 |
| 4. 0.5 credit in elective from any participating DSAAI unit | 0.5 |
| <u>5. 0.5 credit from above electives must be in applications of artificial intelligence in machine learning (See DSAAI program website for list)</u> | |
| 6. 2.5 credits in: | 2.5 |

Total Credits

5.0

New Resources

No New Resources

Summary

1) Change name (add Artificial Intelligence)P&P approved Jan 24, GFB approved Feb 15
New:
2) change reference to lists below to pointer to DSAAI website,
3) add stipulation regarding AI in ML content

Rationale for change

1) The current name of the Data Science and Analytics Master's and Ph.D. does not reflect the program's content, mandatory courses, and learning outcomes. The content of the mandatory (master's) DATA 5000 and (master's and PhD) DATA 5001 courses cover key AI concepts such as machine learning, deep learning, and natural language processing. Therefore, the proposed modification aims to better reflect the current program content, course, and the skills acquired by the students. 2) facilitate timely updates 3) to satisfy a requirement for the recognition of the program by the Vector Institute

Transition/Implementation

Program reviewer comments

sandrabauer (02/16/23 1:19 pm): P&P approved Jan 24, GFB approved Feb 15
sandrabauer (03/01/23 3:04 pm): Rollback: Additional changes re: course list ref & reqt for AI in ML

Date Submitted: 02/07/23 3:25 pm

Viewing: **TBD-2070 : M.Eng. Data Science,
Analytics, Science and Artificial Intelligence**
~~Analytics-M.Eng.~~

Last approved: 06/10/22 2:27 pm

Last edit: 03/08/23 2:01 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

1. COMP 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. 02/07/23 3:28 pm
Michel Barbeau
(michelbarbeau):
Approved for COMP
ChairDir GR
2. 02/07/23 3:59 pm
Yiqiang Zhao
(yiqiangzhao): Approved
for SCI Dean
3. 02/16/23 1:09 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
4. 02/16/23 1:20 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
5. 02/16/23 1:24 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
6. 02/16/23 1:31 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard
7. 03/01/23 3:14 pm
Sandra Bauer
(sandrabauer): Rollback
to PRE GRAD FCC for PRE
SCCASP
8. 03/01/23 3:40 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC

- 9. 03/08/23 2:01 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
- 10. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

History

- 1. Sep 2, 2021 by Sandra Bauer (sandrabauer)
- 2. Jun 10, 2022 by Natalie Phelan (nataliephelan)

Calendar Pages Using this Program [Data Science and Analytics](#)

Effective Date	2023-24
Workflow	majormod minormod
Program Code	TBD-2070
Level	Graduate
Faculty	Faculty of Science
Academic Unit	Department School of Systems and Computer Engineering Science School of Computer Science
Degree	
Title	M.Eng. Data Science, Analytics, Science and Artificial Intelligence Analytics M.Eng.

Program Requirements

M.Eng. Data [Science, Analytics Science](#) and [Artificial Intelligence Analytics](#) (4.5 credits)

M.Eng. Data Science, Analytics, and Artificial Intelligence - Coursework pathway (4.5 credits)

1. **1.0 credit in:** 1.0
 - [DATA 5000](#) [0.5] Data Science Seminar
 - [DATA 5001](#) [0.5] Fundamentals in Data Science and Analytics
2. **1.0 credit in** approved SYSC electives (see DSAAI program website for list of applicable electives) 1.0
3. **0.5 credit in** any graduate-level SYSC course 0.5
4. **1.0 credit in** approved electives from two units not in SYSC (see DSAAI program website for list of applicable electives) 1.0
5. **1.0 credit in** electives from any participating DSAAI unit 1.0

Note: 0.5 credit from above electives must be in application of artificial intelligence in machine learning (see DSAAI program website for list of applicable electives)

Total Credits 4.5

M.Eng. Data Science, Analytics, and Artificial Intelligence - Project pathway (4.5 credits)

1. 1.0 credit in: 1.0

[DATA 5000](#) [0.5] Data Science Seminar

[DATA 5001](#) [0.5] Fundamentals in Data Science and Analytics

2. 1.0 credit in approved SYSC electives (see DSAAI program website for list of applicable electives) 1.0

3. 1.0 credit in approved electives from two units not in SYSC (see DSAAI program website for list of applicable electives) 1.0

4. 0.5 credit in elective from any participating DSAAI unit 0.5

Note: 0.5 credit from above electives must be in applications of artificial intelligence in machine learning (see DSAAI program website for list of applicable electives)

5. 1.0 credit in: 1.0

[DATA 5928](#) [1.0] Project - MEng

Total Credits 4.5

New Resources No New Resources

Summary
1) Change name (add Artificial Intelligence)P&P approved Jan 24, GFB approved Feb 15
New:
2) change reference to list below to point to DSAAI page for applicable electives
3) Item 5 - add requirement that 0.5 credit in electives be in AI/ML

Rationale for change
1) The current name of the Data Science and Analytics Master's and Ph.D. does not reflect the program's content, mandatory courses, and learning outcomes. The content of the mandatory (master's) DATA 5000 and (master's and PhD) DATA 5001 courses cover key AI concepts such as machine learning, deep learning, and natural language processing. Therefore, the proposed modification aims to better reflect the current program content, course, and the skills acquired by the students. 2) to facilitate timely updating 3) to satisfy a requirement for the recognition of the program by the Vector Institute.

Transition/Implementation

Program reviewer comments
sandrabauer (02/16/23 1:19 pm): P&P approved Jan 24, GFB approved Feb 15
sandrabauer (03/01/23 3:14 pm): Rollback: additional changes requiring approval

Date Submitted: 01/25/23 1:44 pm

Viewing: **TBD-2071 : M.I.T. Data Science,
Analytics, Science and Artificial Intelligence
~~Analytics-M.I.T.~~**

Last approved: 01/24/23 1:40 pm

Last edit: 03/06/23 12:40 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

1. BIT ChairDir GR
2. COMP ChairDir GR
3. SCI Dean
4. GRAD Dean
5. PRE GRAD FCC
6. GRAD FCC
7. GRAD FBoard
8. PRE SCCASP
9. SCCASP
10. SQAPC
11. Senate
12. CalEditor

Approval Path

1. 01/25/23 2:31 pm
Rob Teather (robteather):
Approved for BIT
ChairDir GR
2. 02/02/23 2:49 pm
Sandra Bauer
(sandrabauer): Rollback
to BIT ChairDir GR for
COMP ChairDir GR
3. 02/24/23 8:32 am
Rob Teather (robteather):
Approved for BIT
ChairDir GR
4. 02/24/23 4:01 pm
Michel Barbeau
(michelbarbeau):
Approved for COMP
ChairDir GR
5. 03/01/23 5:46 pm
Yiqiang Zhao
(yiqiangzhao): Approved
for SCI Dean
6. 03/02/23 12:15 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
7. 03/03/23 1:45 pm
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
8. 03/08/23 2:01 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC

9. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

History

1. Sep 2, 2021 by Sandra Bauer (sandrabauer)
2. Mar 11, 2022 by Sandra Bauer (sandrabauer)
3. Mar 11, 2022 by Sandra Bauer (sandrabauer)
4. Jan 24, 2023 by Sandra Bauer (sandrabauer)

Calendar Pages Using this Program [Data Science and Analytics](#)

Effective Date	2023-24
Workflow	majormod minormod
Program Code	TBD-2071
Level	Graduate
Faculty	Faculty of Science
Academic Unit	School of Information Technology Computer Science School of Computer Science
Degree	Master of Information Technology
Title	M.I.T. Data Science, Analytics, Science and Artificial Intelligence Analytics M.I.T.

Program Requirements

M.I.T. Data [Science, Analytics, Science](#) and [Artificial Intelligence](#) [Analytics](#) (5.0 credits)

M.I.T. Data Science, Analytics, and Artificial Intelligence - Thesis pathway (5.0 credits)

- | | | |
|---------------------------------|---|-----|
| 1. 1.0 credit in: | | 1.0 |
| DATA 5000 [0.5] | Data Science Seminar | |
| DATA 5001 [0.5] | Fundamentals in Data Science and Analytics | |
| 2. 0.5 credit in | approved ITEC electives (see DSAAI program website for list of applicable electives) | 0.5 |
| 3. 0.5 credit in | approved electives not in ITEC (see DSAAI program website for list of applicable electives) | 0.5 |
| 4. 0.5 credit in | elective from any participating DSAAI unit | 0.5 |

[Note: 0.5 credit from above electives must be in applications of artificial intelligence in machine learning \(see DSAAI program website for list of applicable electives\)](#)

5. 2.5 credits in:		2.5
DATA 5919 [2.5]	Thesis - MIT	
Total Credits		5.0
M.I.T. Data Science, Analytics, and Artificial Intelligence - Project pathway (5.0 credits)		
1. 1.0 credit in:		1.0
DATA 5000 [0.5]	Data Science Seminar	
DATA 5001 [0.5]	Fundamentals in Data Science and Analytics	
2. 1.0 credit in	approved ITEC electives (see DSAAI program website for list of applicable electives)	1.0
3. 1.0 credit in	approved electives from two units not in ITEC (see DSAAI program website for list of applicable electives)	1.0
4. 0.5 credit in	elective from any participating DSAAI unit	0.5
<u>Note: 0.5 credit from above electives must be in applications of artificial intelligence in machine learning (see DSAAI program website for list of applicable electives)</u>		
5. 1.5 credits in:		1.5
DATA 5918 [1.0]	Project - MIT	
Total Credits		5.0
<u>M.I.T. Data Science, Analytics, and Artificial Intelligence - Coursework pathway (5.0 credits)</u>		
1. 1.0 credit in:		<u>1.0</u>
DATA 5000 [0.5]	Data Science Seminar	
DATA 5001 [0.5]	Fundamentals in Data Science and Analytics	
2. 2.0 credits in	approved ITEC electives (see DSAAI program website for list of applicable electives)	<u>2.0</u>
3. 1.0 credit in	approved electives from two units not in ITEC (see DSAAI program website for list of applicable electives)	<u>1.0</u>
4. 1.0 credit in	electives from any participating DSAAI unit	<u>1.0</u>
<u>Note: 0.5 credit from above electives must be in applications of artificial intelligence in machine learning (see DSAAI program website for list of applicable electives)</u>		
Total Credits		5.0

New Resources No New Resources

Summary

- 1) Name change - add Artificial Intelligence
- 2) Add coursework pathway
- 3) change reference to electives list on page to ref to program website
- 4) add stipulation that 0.5 credit in electives must be in AI/ml

Rationale for change

1) The current name of the Data Science and Analytics Master's and Ph.D. does not reflect the program's content, mandatory courses, and learning outcomes. The content of the mandatory (master's) DATA 5000 and (master's and PhD) DATA 5001 courses cover key AI concepts such as machine learning, deep learning, and natural language processing. Therefore, the proposed modification aims to better reflect the current program content, course, and the skills acquired by the students. 2) Adding a coursework pathway will allow admission of students in excess of supervisory capacity. 3) to facilitate timely updating 4) to satisfy a requirement for the recognition of the program by the Vector Institute

Transition/Implementation

Program reviewer comments **sandrabauer (02/02/23 2:49 pm):** Rollback: As discussed

Date Submitted: 01/25/23 1:45 pm

Viewing: **TBD-2072 : M.Sc. Data Science,
Analytics, **Science** and Artificial Intelligence
Analytics**

Last approved: 01/25/23 11:51 am

Last edit: 03/06/23 12:41 pm

Last modified by: sandrabauer

[Changes proposed by: sandrabauer](#)

In Workflow

1. MATH ChairDir GR
2. COMP ChairDir GR
3. SCI Dean
4. GRAD Dean
5. PRE GRAD FCC
6. GRAD FCC
7. GRAD FBoard
8. PRE SCCASP
9. SCCASP
10. SQAPC
11. Senate
12. CalEditor

Approval Path

1. 02/07/23 12:25 pm
Robert Burk
(robertburk): Approved
for MATH ChairDir GR
2. 02/07/23 12:30 pm
Michel Barbeau
(michelbarbeau):
Approved for COMP
ChairDir GR
3. 02/07/23 3:59 pm
Yiqiang Zhao
(yiqiangzhao): Approved
for SCI Dean
4. 02/24/23 10:18 am
Sandra Bauer
(sandrabauer): Approved
for GRAD Dean
5. 02/24/23 10:31 am
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
6. 03/08/23 2:01 pm
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
7. 03/15/23 9:51 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard

History

1. Jul 15, 2021 by Sandra Bauer (sandrabauer)
2. Mar 11, 2022 by Sandra Bauer (sandrabauer)
3. Jan 24, 2023 by Sandra Bauer (sandrabauer)
4. Jan 25, 2023 by Sandra Bauer (sandrabauer)
5. Jan 25, 2023 by Sandra Bauer (sandrabauer)
6. Jan 25, 2023 by Sandra Bauer (sandrabauer)

Calendar Pages Using this Program [Data Science and Analytics](#)

Effective Date	2023-24
Workflow	majormod minormod
Program Code	TBD-2072
Level	Graduate
Faculty	Faculty of Science
Academic Unit	School of Mathematics and Statistics School of Computer Science
Degree	Master of Science
Title	M.Sc. Data Science, Analytics, Science and Artificial Intelligence Analytics

Program Requirements

M.Sc. Data [Science, Analytics, Science](#) and [Artificial Intelligence Analytics](#) (5.0 credits)

M.Sc. Data Science, Analytics and Artificial Intelligence - Thesis pathway (5.0 credits)

1. 1.0 credit in:		1.0
DATA 5000 [0.5]	Data Science Seminar	
DATA 5001 [0.5]	Fundamentals in Data Science and Analytics	
2. 0.5 credit in	approved STAT elective (see DSAAI program website for list of applicable electives)	0.5
3. 0.5 credit in	approved electives not in STAT (see DSAAI program website for list of applicable electives)	0.5
4. 0.5 credit in	elective from any participating DSAAI unit	0.5
Note: 0.5 credit from above electives must be in applications of artificial intelligence in machine learning (see DSAAI program website for list of applicable electives)		
5. 2.5 credits in:		2.5
DATA 5909 [2.5]	Thesis - MSc	

Total Credits 5.0

M.Sc. Data Science, Analytics, and Artificial Intelligence - Project pathway (5.0 credits)

1. 1.0 credit in:		1.0
DATA 5000 [0.5]	Data Science Seminar	
DATA 5001 [0.5]	Fundamentals in Data Science and Analytics	
2. 1.0 credit in	approved STAT electives (see DSAAI program website for list of applicable electives)	1.0
3. 1.0 credit in	approved electives from two units not in STAT (see DSAAI program website for list of applicable electives)	1.0
4. 0.5 credit in	elective from any participating DSAAI unit	0.5
<u>Note: 0.5 credit from above electives must be in applications of artificial intelligence in machine learning (see DSAAI program website for list of applicable electives)</u>		
5. 1.5 credits in:		1.5
DATA 5908 [1.0]	Project - MSc	
Total Credits		5.0
<u>M.Sc. Data Science, Analytics and Artificial Intelligence - Coursework pathway (5.0 credits)</u>		
1. 1.0 credit in:		<u>1.0</u>
DATA 5000 [0.5]	Data Science Seminar	
DATA 5001 [0.5]	Fundamentals in Data Science and Analytics	
2. 2.0 credits in	approved STAT electives (see DSAAI program website for list of applicable electives)	<u>2.0</u>
3. 1.0 credit in	approved electives from two units not in STAT (see DSAAI program website for list of applicable electives)	<u>1.0</u>
4. 1.0 credit in	elective from any participating DSAAI unit	<u>1.0</u>
<u>Note: 0.5 credit from above electives must be in applications of artificial intelligence in machine learning (see DSAAI program website for list of applicable electives)</u>		
Total Credits		5.0

New Resources	No New Resources
Summary	1) modify name (add Artificial Intelligence) 2) Add coursework pathway
Rationale for change	1)The current name of the Data Science and Analytics Master's and Ph.D. does not reflect the program's content, mandatory courses, and learning outcomes. The content of the mandatory (master's) DATA 5000 and (master's and PhD) DATA 5001 courses cover key AI concepts such as machine learning, deep learning, and natural language processing. Therefore, the proposed modification aims to better reflect the current program content, course, and the skills acquired by the students. 2)Adding a coursework pathway will allow admission of students in excess of supervisory capacity.
Transition/Implementation	

Program reviewer comments

Data Science Associated Minor modifications

Courseleaf entry	Title
R-GR-ADM	MASC Data Science, Analytics, and Artificial Intelligence Admission Requirements
TBD-2084	M.C.S. Data Science, Analytics, and Artificial Intelligence Admission Requirements
TBD-2085	M.Eng. Data Science, Analytics, and Artificial Intelligence Admission Requirements
TBD-2086	M.I.T. Data Science, Analytics, and Artificial Intelligence Admission Requirements
TBD-2087	M.Sc. Data Science, Analytics, and Artificial Intelligence Admission Requirements

Date Submitted: 12/09/22 3:51 pm

Viewing: **TBD-1173 : R-GR-ADMREQT-Religion
and Public Life MA**

Last approved: 05/08/17 1:58 pm

Last edit: 03/03/23 10:05 am

Last modified by: sandrabauer

[Changes proposed by: karinaauclair](#)

In Workflow

1. HUMM ChairDir GR
2. PRE GRAD FCC
3. GRAD FCC
4. GRAD FBoard
5. PRE SCCASP
6. SCCASP
7. PRE SQAPC
8. SQAPC
9. Senate
10. CalEditor

Approval Path

1. 12/09/22 8:52 pm
Shane Hawkins
(shanehawkins):
Approved for HUMM
ChairDir GR
2. 12/14/22 9:50 am
Sandra Bauer
(sandrabauer): Approved
for PRE GRAD FCC
3. 01/10/23 11:02 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FCC
4. 01/18/23 11:08 am
Sandra Bauer
(sandrabauer): Approved
for GRAD FBoard
5. 02/02/23 2:32 pm
Natalie Phelan
(nataliephelan):
Approved for PRE
SCCASP
6. 02/09/23 2:56 pm
Erika Strathearn
(erikastrathearn):
Approved for SCCASP
7. 03/02/23 2:15 pm
Sandra Bauer
(sandrabauer): Approved
for PRE SQAPC

History

1. Jun 15, 2015 by Sandra Bauer (sandrabauer)
2. May 8, 2017 by Sandra Bauer (sandrabauer)

Calendar Pages Using this Program [Religion and Public Life](#)

Effective Date	2023-24
Workflow	majormod minormod
Program Code	TBD-1173
Level	Graduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	College of the Humanities
Degree	
Title	R-GR-ADMREQT-Religion and Public Life MA

Program Requirements

Admission

The normal requirement for admission to the Master's program is a B.A. Honours (or equivalent) in Religion/Religious Studies or a cognate discipline, with a High Honours standing (normally at least B+).

Students without a prior Method and Theory course in Religious Studies are required to complete [RELI 4740](#).

Possession of the minimum entrance standing is not in itself, however, an assurance of admission into the program.

Post-Baccalaureate Diploma Qualifying Year

Applicants who do not qualify for direct admission to the master's program may be admitted to a [post-baccalaureate diploma qualifying year](#) program designed to [either qualify them for the MA program or provide them with a diploma raise their status to that of honours graduates](#) in [Religion and Public Life, Religious Studies](#). Applicants who lack an honours degree but have a three-year degree with honours standing (at least B overall) will normally be admitted to [our post-baccalaureate diploma a qualifying year](#) program. [Students are expected to achieve a B+ average or higher better in the post-Baccalaureate diploma qualifying year program in order to qualify for admission to the Master's year.](#) Please [consult refer to](#) the [Religion](#) section 2.3 of the [Undergraduate Calendar for more information, General Regulations: \[Insert link to the program's link in calendar or the Post-Baccalaureate Diploma Admissions page under "Admissions" in Undergraduate Calendar\].](#)

~~Students are expected to achieve a B+ average or better in the qualifying-year program in order to qualify for admission to the Master's year. Qualifying-year students should consult the Undergraduate Calendar and the departmental website for a listing of 4000-level courses.~~

New Resources	No New Resources
Summary	Deleting the text from the discontinued Q-Year program and adding the Post-Baccalaureate description