Carleton University

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

memorandum

DATE: February 21, 2025

TO: Senate

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

RE: 2025-26 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 major modifications included below.

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

Major Modifications
1. **Undergraduate Programs in Canadian Studies**
    SCCASP approval: January 21, 2025
    SQAPC approval: January 23, 2025

Senate Motion February 28, 2025

THAT Senate approve the deletion of the undergraduate programs in Canadian Studies as presented
with effect from Fall 2025.

Omnibus Motion
In order to expedite business with the multiple changes that are subject to Senate approval at this
meeting, an omnibus motion will be moved and include all items below (motions 2-15). Senators may
wish to identify any of the 14 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.

2. **MECT 4907**
   SCCASP approval: December 3, 2024
   SQAPC approval: December 12, 2024

Senate Motion February 28, 2025

THAT Senate approve the introduction of MECT 4907 as presented with effect from Fall 2025.

3. **Undergraduate Certificate in Journalism in Indigenous Communities**
   SCCASP approval: January 21, 2025
   SQAPC approval: January 23, 2025

Senate Motion February 28, 2025

THAT Senate approve the introduction of the undergraduate Certificate in Journalism in Indigenous Communities and JOUR 1107 as presented with effect from Fall 2025.

4. **Undergraduate Programs in Music**
   SCCASP approval: January 21, 2025
   SQAPC approval: January 23, 2025

Senate Motion February 28, 2025

THAT Senate approve the major modification to the undergraduate programs in Music and MUSI 4800, 4801 and 4908 as presented with effect from Fall 2025.

5. **BEng: Architectural Conservation and Sustainability Engineering**
   SCCASP approval: February 4, 2025
   SQAPC approval: February 13, 2025

Senate Motion February 28, 2025

THAT Senate approve the deletion of the BEng: Architectural Conservation and Sustainability Engineering Streams A & B as presented with effect from Fall 2025.

6. **GDIP Economic Policy**
   SCCASP approval: February 4, 2025
   SQAPC approval: February 13, 2025

Senate Motion February 28, 2025

THAT Senate approve the deletion of the Graduate Diploma in Economic Policy as presented with effect from Fall 2025.

7. **MARCH**
   SCCASP approval: February 4, 2025
   SQAPC approval: February 13, 2025

Senate Motion February 28, 2025

THAT Senate approve the major modification to the MArch programs and the introduction of ARCH 5555 as presented with effect from Fall 2025.

8. **MPPA Collaborative Specialization in Climate Change**
    SCCASP approval: February 4, 2025
    SQAPC approval: February 13, 2025

Senate Motion February 28, 2025

THAT Senate approve the introduction of the Collaborative Specialization in Climate Change to the MPPA program as presented with effect from Fall 2025.

9. **MA Women's and Gender Studies Collaborative Specialization in Accessibility**
    SCCASP approval: February 4, 2025
    SQAPC approval: February 13, 2025

Senate Motion February 28, 2025

THAT Senate approve the major modification to the MA in Women's and Gender Studies with Collaborative Specialization in Accessibility as presented with effect from Fall 2025.

10. **DATA 5913**
    SCCASP approval: February 4, 2025
    SQAPC approval: February 13, 2025

Senate Motion February 28, 2025

THAT Senate approve the introduction of DATA 5913 as presented with effect from Fall 2025.

11. **PhD. Data Science, Analytics, and Artificial Intelligence**
    SCCASP approval: February 4, 2025
    SQAPC approval: February 13, 2025

Senate Motion February 28, 2025

THAT Senate approve the major modification to the PhD in Data Science, Analytics, and Artificial Intelligence as presented with effect from Fall 2025.

12. **GDIP European and Russian Studies**
    SCCASP approval: February 4, 2025
    SQAPC approval: February 13, 2025

Senate Motion February 28, 2025

THAT Senate approve the change in the Graduate diploma name to European, Russian and Eurasian Studies as presented with effect from Fall 2025.

13. **MCS: Data Science Analytics and Artificial Intelligence**
    SCCASP approval: February 4, 2025
    SQAPC approval: February 13, 2025

Senate Motion February 28, 2025

THAT Senate approve the major modification to the MCS in Data Science, Analytics, and Artificial Intelligence as presented with effect from Fall 2025.

14. **Undergraduate programs in Earth Sciences**
    SCCASP approval: February 18, 2025
    SQAPC approval: February 13, 2025

Senate Motion February 28, 2025

THAT Senate approve the major modification to the undergraduate programs in Earth Sciences as presented with effect from Fall 2025.

15. **Undergraduate programs in Architecture**
    SCCASP approval: February 4, 2025
    SQAPC approval: February 13, 2025

Senate Motion February 28, 2025

THAT Senate approve the major modification to the to the BAS programs in Architecture as presented with effect from Fall 2025.

MEMORANDUM

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

From: Paul Keen, Director, Canadian Studies

CC: Anne Bowker, Dean, Faculty of Arts and Social Sciences
Augustine Park, Interim Associate Dean (Academic), Faculty of Arts and Social Sciences

Date: December 9, 2024

Subject: Program Closures: Canadian Studies

Description of change

Closing of the following programs, effective 2025-26:

- **Canadian Studies B.A. Honours**
- **Canadian Studies B.A. Combined Honours**
- **Canadian Studies B.A.**
- **Minor in Québec Studies**
- **Mention Français: Canadian Studies Honours**
- **Mention Français: Canadian Studies Combined Honours**
- **Mention Français: Canadian Studies B.A.**

These various programs within the Canadian Studies undergraduate streams are being closed to steep decline in enrolment (virtually no new Majors over the past three years) along with an equally serious shortage of faculty who are available to teach the required courses in these programs. Admissions to the Major were paused this year after having received zero applications, with just two Majors the year before. Our plan is to focus our resources on the Master's , and on the Heritage and Conservation Minor, where interest remains relatively strong.

Impact on Other Programs and Students

These closures will have no impact on other programs. We will maintain CDNS 2400, which is required by Architecture, as part of our Heritage Minor. We are not yet cancelling specific courses, many of which are very popular options for non-Majors at the first and second year level, though there are no plans to offer them in the foreseeable future due to budget constraints. Because of the highly interdisciplinary nature of our program, our MA students will be able to find TA opportunities in other FASS units.

V:2023-1

Resources

The following questions should be addressed in this section. When answering the questions include the future plans for reallocated resources.

a. *Dean and Faculty Affiliation*: No faculty will need to be relocated. The ongoing presence of the Master's program and BA Minor in Heritage and Conservation means that all remaining faculty will continue to be fully needed.
b. *Faculty resources*: No.
c. *Administrative support*: Changes already in place this year in our adminbistrative team (from two full-time administrators in past years to one this year with part-time help from a second administrator) means that these changes can be accommodated within our exisiting administrative arrangement.
d. *Space*: No change in space requirements.
e. *Financial*: No financial implications, though these changes do mean that the School will not be forced to require the number of CI credits as previous years in our annual budget.

Transition Plan

The steep decline in program enrolments over the past few years means that there are very few students who will need to be accommodated, though in these few cases, we will be able to do so by granting them equivalencies for the courses that we continue to offer within the Heritage and Conservation Minor, or equivalent courses in other programs (given the program's interdisciplinary nature).

Program Change Request

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 11/21/24 8:59 am

Viewing: **GBA-11 : Canadian Studies B.A.**

Last approved: 04/18/22 2:05 pm

Last edit: 11/21/24 8:59 am

Last modified by: augustinepark

Changes proposed by: augustinepark

In Workflow

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

Approval Path

1. 11/21/24 11:32 am Paul Keen (paulkeen): Approved for CANS ChairDir UG
2. 11/21/24 2:07 pm Augustine Park (augustinepark): Approved for AS Dean
3. 11/29/24 9:17 am Augustine Park (augustinepark): Approved for AS FCC
4. 12/06/24 2:20 pm Augustine Park (augustinepark): Approved for AS FBoard

History

1. Apr 17, 2014 by sandra
2. Feb 11, 2015 by cathyschmueck
3. Apr 6, 2015 by sandra
4. Aug 5, 2016 by Donna Malone (donnamalone)
5. Jun 5, 2017 by Sandra Bauer (sandrabauer)
6. Jun 12, 2017 by Sandra Bauer (sandrabauer)
7. Jun 24, 2020 by Sarah Cleary (sarahcleary)
8. Apr 18, 2022 by Donna Malone (donnamalone)

Calendar Pages Using this Program	Canadian Studies
Effective Date	2025-26
Workflow	majormod
Program Code	GBA-11
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of Canadian Studies
Degree	Bachelor of Arts
Title	Canadian Studies B.A.

Program Requirements

Canadian Studies
B.A. (15.0 credits)

A. Credits Included in the Major CGPA (7.0 credits)

1. **1.5 credit in:**   1.5

    CDNS 1001 [0.5]   Introduction to the Study of Canada

    CDNS 1101 [0.5]   Power, Places and Stories in/of Odawang/Ottawa

    INDG 1011 [0.5]   Introduction to Indigenous-Settler Encounters

2. **1.5 credits in:**   1.5

    CDNS 2000 [0.5]   Debating Canada

    CDNS 2001 [0.5]   Canada and Global Issues

    CDNS 2002 [0.5]   Language, Culture, and Power

3. **1.0 credit from** CDNS or INDG 3000-level courses   1.0

4. **1.0 credit at** the 3000-level, from the list of Approved Canadian Studies or Indigenous Studies Electives below   1.0

5. **2.0 credits from** the list of Approved Canadian Studies or Indigenous Studies Electives below   2.0

B. Credits Not included in the Major CGPA (8.0 credits)

6. **1.0 credit in** language instruction in any language except English offered through the University.   1.0

7. **5.0 credits in** electives not in CDNS or INDG   5.0

8. **2.0 credits in** free elective (may be CDNS or INDG)   2.0

Total Credits   15.0

New Resources

Summary	Deletion of Canadian Studies 15.0 credit B.A.
Rationale for change	The B.A. degrees in Canadian Studies are no longer sustainable as there are no longer enough faculty to teach the courses and enrolment in the major progams has been in decline.
Transition/Implementation	The School will ensure that the courses are offered (or appropriate alternatives identified) to enable remaining students to satisfy their degree requirements. The School will consult with the RO.

Program reviewer
comments

Key: 574

Program Change Request

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 11/21/24 9:01 am

Viewing: HBA-11+ : Canadian Studies B.A. Combined Honours

Last approved: 04/18/22 3:02 pm

Last edit: 11/21/24 9:01 am

Last modified by: augustinepark

Changes proposed by: augustinepark

In Workflow

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

Approval Path

1. 11/21/24 11:33 am
   Paul Keen (paulkeen):
   Approved for CANS
   ChairDir UG
2. 11/21/24 2:07 pm
   Augustine Park
   (augustinepark):
   Approved for AS Dean
3. 11/29/24 9:17 am
   Augustine Park
   (augustinepark):
   Approved for AS FCC
4. 12/06/24 2:20 pm
   Augustine Park
   (augustinepark):
   Approved for AS FBoard

History

1. Apr 17, 2014 by sandra
2. Feb 11, 2015 by
   cathyschmueck
3. Apr 6, 2015 by sandra
4. Feb 13, 2017 by Sandra
   Bauer (sandrabauer)
5. Jun 5, 2017 by Sandra
   Bauer (sandrabauer)
6. Jun 12, 2017 by Sandra
   Bauer (sandrabauer)
7. Apr 18, 2022 by Donna
   Malone (donnamalone)

Calendar Pages Using this Program	Canadian Studies
Effective Date	2025-26
Workflow	majormod
Program Code	HBA-11+
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of Canadian Studies
Degree	Bachelor of Arts Honours
Title	Canadian Studies B.A. Combined Honours

Program Requirements

Canadian Studies
B.A. Combined Honours (20.0 credits)

A. Credits Included in the Major CGPA (7.0 credits)

1. **1.5 credit in:**   1.5

   CDNS 1001 [0.5]   Introduction to the Study of Canada

   CDNS 1101 [0.5]   Power, Places and Stories in/of Odawang/Ottawa

   INDG 1011 [0.5]   Introduction to Indigenous-Settler Encounters

2. **1.5 credits in:**   1.5

   CDNS 2000 [0.5]   Debating Canada

   CDNS 2001 [0.5]   Canada and Global Issues

   CDNS 2002 [0.5]   Language, Culture, and Power

3. **1.0 credit in:**   1.0

   CDNS 3000 [0.5]   Situating Research in Indigenous Studies and Canadian Studies

   CDNS 3020 [0.5]   Practicing Research in Indigenous Studies and Canadian Studies

4. **0.5 credit in** CDNS or INDG at the 2000-level   0.5

5. **0.5 credit in** CDNS or INDG at the 3000-level   0.5

6. **0.5 credit in** CDNS or INDG at the 4000-level   0.5

7. **1.5 credits from** the list of Approved Canadian Studies or Indigenous Studies Electives below   1.5

B. Additional Requirements (13.0 credits)   13.0

8. The requirements of the other discipline must be fulfilled

9. The School requires students to complete 1.0 credit in language instruction in any language except English offered through the University

10. Sufficient free electives to achieve a total of 20.0 credits for the program

Total Credits   20.0

New Resources

Summary	Deletion of Canadian Studies Combined Honours B.A.
Rationale for change	The B.A. degrees in Canadian Studies are not sustainable as there are no longer enough faculty to teach the courses and enrolment in the major programs has been in decline.
Transition/Implementation	The School will ensure that the courses are offered (or appropriate alternatives identified) to enable remaining students to satisfy their degree requirements. The School will consult with the RO.

Program reviewer
comments

Key: 573

Program Change Request

A deleted record cannot be edited

<div align="center">

Program Delete Proposal

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Date Submitted: 11/21/24 9:00 am

Viewing: **HBA-11 : Canadian Studies B.A. Honours**

Last approved: 04/18/22 3:02 pm

Last edit: 11/21/24 9:00 am

Last modified by: augustinepark

Changes proposed by: augustinepark

In Workflow

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

Approval Path

1. 11/21/24 11:33 am
   Paul Keen (paulkeen):
   Approved for CANS
   ChairDir UG
2. 11/21/24 2:07 pm
   Augustine Park
   (augustinepark):
   Approved for AS Dean
3. 11/29/24 9:17 am
   Augustine Park
   (augustinepark):
   Approved for AS FCC
4. 12/06/24 2:20 pm
   Augustine Park
   (augustinepark):
   Approved for AS FBoard

History

1. Apr 17, 2014 by sandra
2. Apr 17, 2014 by sandra
3. Feb 11, 2015 by
   cathyschmueck
4. Feb 11, 2015 by sandra
5. Apr 6, 2015 by sandra
6. Feb 13, 2017 by Sandra
   Bauer (sandrabauer)
7. Jun 12, 2017 by Sandra
   Bauer (sandrabauer)
8. Jun 12, 2017 by Sandra
   Bauer (sandrabauer)
9. Mar 17, 2020 by Sarah
   Cleary (sarahcleary)
10. Apr 18, 2022 by Donna
    Malone (donnamalone)

Calendar Pages Using this Program	Canadian Studies
Effective Date	2025-26
Workflow	majormod
Program Code	HBA-11
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of Canadian Studies
Degree	Bachelor of Arts Honours
Title	Canadian Studies B.A. Honours

Program Requirements

Canadian Studies
B.A. Honours (20.0 credits)

A. Credits Included in the Major CGPA (10.0 credits)

1. 1.5 credits in: 1.5

CDNS 1001 [0.5]	Introduction to the Study of Canada	
CDNS 1101 [0.5]	Power, Places and Stories in/of Odawang/Ottawa	
INDG 1011 [0.5]	Introduction to Indigenous-Settler Encounters	

2. 1.5 credits in: 1.5

CDNS 2000 [0.5]	Debating Canada	
CDNS 2001 [0.5]	Canada and Global Issues	
CDNS 2002 [0.5]	Language, Culture, and Power	

3. 1.0 credit in: 1.0

CDNS 3000 [0.5]	Situating Research in Indigenous Studies and Canadian Studies	
CDNS 3020 [0.5]	Practicing Research in Indigenous Studies and Canadian Studies	

4. 0.5 credit in CDNS or INDG at the 2000-level   0.5

5. 1.0 credit in CDNS or INDG at the 3000-level   1.0

6. 1.0 credit in CDNS or INDG at the 4000-level   1.0

7. 3.5 credits from the list of Approved Canadian Studies or Indigenous Studies Electives below   3.5

B. Credits Not Included in the Major CGPA (10.0 credits)

8. 6.0 credits not in CDNS or INDG   6.0

9. 1.0 credit in language instruction in any language except English offered through the University   1.0

10. 3.0 credits in free electives   3.0

Total Credits   20.0

New Resources

Summary	Deletion of Canadian Studies 20.0 credit B.A.
Rationale for change	The B.A. degrees in Canadian Studies are not sustainable as there are no longer enough faculty to teach the courses and enrolment in the major progams has been in decline.
Transition/Implementation	The School will ensure that the courses are offered (or appropriate alternatives identified) to enable remaining students to satisfy their degree requirements. The School will consult with the RO.

Program reviewer
comments

Key: 572

Program Change Request

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 11/21/24 9:05 am

Viewing: C3-11G : Mention Français: Canadian Studies

Last approved: 06/24/20 1:35 pm

Last edit: 11/21/24 9:05 am

Last modified by: augustinepark

Changes proposed by: augustinepark

In Workflow

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

Approval Path

1. 11/21/24 11:33 am
   Paul Keen (paulkeen):
   Approved for CANS
   ChairDir UG
2. 11/21/24 2:07 pm
   Augustine Park
   (augustinepark):
   Approved for AS Dean
3. 11/29/24 9:16 am
   Augustine Park
   (augustinepark):
   Approved for AS FCC
4. 01/10/25 1:58 pm
   Augustine Park
   (augustinepark):
   Approved for AS FBoard

History

1. May 20, 2014 by sandra
2. Jan 11, 2018 by Mike
   Labreque (mikelabreque)
3. Jun 24, 2020 by Sarah
   Cleary (sarahcleary)

Calendar Pages Using this Program	Canadian Studies
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	C3-11G
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of Canadian Studies
Degree	Not Applicable
Title	Mention Français: Canadian Studies

Program Requirements

Mention Français: Canadian Studies B.A. (3.0 credits)

To graduate with the notation *Mention : Français*, B.A. students must include the following courses in their degree program:

1. **1.0 credit in** the advanced study of the French language   1.0
2. **1.0 credit in** French-Canadian culture and heritage such as: 1.0

FREN 2202 [0.5]	Introduction aux études littéraires: œuvres françaises et francophones	
& FREN 2203 [0.5]	Introduction aux études littéraires: œuvres québécoises et canadiennes	
FREN 2401 [1.0]	Introduction à la linguistique française	

or a course in another appropriate discipline, given in French, which is approved by the Undergraduate Supervisor. Courses from the University of Ottawa or another university must be approved by the Undergraduate Supervisor

3. 1.0 credit on a Canadian subject at the 2000- or 3000- level, taught in French, in any appropriate discipline. For Carleton University courses that may be used to fulfill this requirement, consult the list below of Approved Canadian Studies Electives. Courses from the University of Ottawa or another university must be approved by the Undergraduate Supervisor.	1.0
Total Credits	3.0

New Resources

Summary	Deletion of all Mention Francais associated with Canadian Studies B.A. programs.
Rationale for change	The B.A. degrees in Canadian Studies are not sustainable as there are no longer enough faculty to teach the courses and enrolment in the major programs has been in decline.
Transition/Implementation	The School will ensure that the requisite courses are offered (or appropriate alternatives identified) to enable remaining students to satisfy their degree requirements. The School will consult with the RO.

Program reviewer comments

Key: 579

Program Change Request

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 11/21/24 9:05 am

Viewing: **C3-11C : Mention Français: Canadian Studies Combined Honours**

Last approved: 01/11/18 12:30 pm

Last edit: 11/21/24 9:05 am

Last modified by: augustinepark

Changes proposed by: augustinepark

In Workflow

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

Approval Path

1. 11/21/24 11:33 am
   Paul Keen (paulkeen):
   Approved for CANS
   ChairDir UG
2. 11/21/24 2:07 pm
   Augustine Park
   (augustinepark):
   Approved for AS Dean
3. 11/29/24 9:16 am
   Augustine Park
   (augustinepark):
   Approved for AS FCC
4. 12/06/24 2:21 pm
   Augustine Park
   (augustinepark):
   Approved for AS FBoard

History

1. May 20, 2014 by sandra
2. Jan 11, 2018 by Mike
   Labreque (mikelabreque)

Calendar Pages Using this Program	Canadian Studies
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	C3-11C
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of Canadian Studies
Degree	Not Applicable
Title	Mention Français: Canadian Studies Combined Honours

Program Requirements

Mention Français: Canadian Studies Combined Honours (4.0 credits)

To graduate with the notation *Mention : Français*, Combined Honours students must include the following courses in their degree program:

1. **1.0 credit in** the advanced study of the French language   1.0
2. **1.0 credit in** French-Canadian culture and heritage such as: 1.0

FREN 2202 [0.5]	Introduction aux études littéraires: œuvres françaises et francophones	
& FREN 2203 [0.5]	Introduction aux études littéraires: œuvres québécoises et canadiennes	
FREN 2401 [1.0]	Introduction à la linguistique française	

or a course in another appropriate discipline, given in French, which is approved by the Undergraduate Supervisor. Courses from the University of Ottawa or another university must be approved by the Undergraduate Supervisor

3. 1.0 credit on a Canadian subject at the 2000- or 3000- level, taught in French, in any appropriate discipline. For Carleton University courses that may be used to fulfill this requirement, consult the list of Approved Canadian Studies Electives (below). Courses from the University of Ottawa or another university must be approved by the Undergraduate Supervisor.   1.0

4. 1.0 credit on a Canadian subject at the 4000-level, taught in French, including either: 1.0

CDNS 4903 [0.5]	Études dirigées I
or CDNS 4904 [0.5]	Études dirigées II

or a directed studies, tutorial, research paper, or course in any appropriate discipline.

Total Credits   4.0

Notes:

1. All written work must be submitted in French. Note that directed studies, tutorials, and research papers are weighted differently in various departments. Courses from the University of Ottawa or another university must be approved by the Undergraduate Supervisor.
2. Combined Honours program students must meet *Mention : Français* requirements of both disciplines.

New Resources

Summary	Deletion of all Mention Francais associated with Canadian Studies B.A. programs.
Rationale for change	The B.A. degrees in Canadian Studies are not sustainable as there are no longer enough faculty to teach the courses and enrolment in the major programs has been in decline.
Transition/Implementation	The School will ensure that the requisite courses are offered (or appropriate alternatives identified) to enable remaining students to satisfy their degree requirements. The School will consult with the RO.

Program reviewer comments

Key: 578

Program Change Request

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 11/21/24 9:06 am

Viewing: C3-11H : Mention Français: Canadian Studies Honours

Last approved: 03/26/21 11:40 am

Last edit: 11/21/24 9:06 am

Last modified by: augustinepark

Changes proposed by: augustinepark

Approval Path

1. 11/21/24 11:33 am
   Paul Keen (paulkeen):
   Approved for CANS
   ChairDir UG
2. 11/21/24 2:07 pm
   Augustine Park
   (augustinepark):
   Approved for AS Dean
3. 11/29/24 9:16 am
   Augustine Park
   (augustinepark):
   Approved for AS FCC
4. 12/06/24 2:21 pm
   Augustine Park
   (augustinepark):
   Approved for AS FBoard

History

1. May 20, 2014 by sandra
2. Sep 30, 2014 by sandra
3. Jan 11, 2018 by Mike
   Labreque (mikelabreque)
4. Mar 26, 2021 by Sarah
   Cleary (sarahcleary)

Calendar Pages Using this Program	Canadian Studies
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	C3-11H
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of Canadian Studies
Degree	Not Applicable
Title	Mention Français: Canadian Studies Honours

Program Requirements

Mention : Français

Students who wish to qualify for the *Mention : Français* notation in Canadian Studies may do so by fulfilling the requirements listed below, in consultation with the Undergraduate Supervisor. Courses taken for the *Mention : Français* notation may be used to fulfill the Canadian Studies B.A. or the Canadian Studies B.A. Combined Honours program requirements.

Courses taught in French at the University of Ottawa or at another university and which are approved by the Undergraduate Supervisor may be used to satisfy *Mention : Français* requirements. Students who wish to enrol in University of Ottawa courses for this purpose must do so through the University of Ottawa Exchange Agreement. To enroll in courses in French at another university, a Letter of Permission is required from the Registrar's Office.

Mention Français: Canadian Studies Honours (4.0 credits)

To graduate with the notation *Mention : Français*, Honours and Combined Honours students must include the following courses in their degree program:

1. **1.0 credit in** the advanced study of the French language   1.0
2. **1.0 credit in** French-Canadian culture and heritage such as: 1.0

FREN 2202 [0.5]	Introduction aux études littéraires: œuvres françaises et francophones
& FREN 2203 [0.5]	Introduction aux études littéraires: œuvres québécoises et canadiennes
FREN 2401 [1.0]	Introduction à la linguistique française

or a course in another appropriate discipline, given in French, which is approved by the Undergraduate Supervisor. Courses from the University of Ottawa or another university must be approved by the Undergraduate Supervisor

3. 1.0 credit on a Canadian subject at the 2000- or 3000- level, taught in French, in any appropriate discipline. For Carleton University courses that may be used to fulfill this requirement, consult the list of Approved Canadian Studies Electives (below). Courses from the University of Ottawa or another university must be approved by the Undergraduate Supervisor.   1.0

4. 1.0 credit on a Canadian subject at the 4000-level, taught in French, including either: 1.0

CDNS 4903 [0.5]	Études dirigées I
or CDNS 4904 [0.5]	Études dirigées II

or a directed studies, tutorial, research paper, or course in any appropriate discipline.

Total Credits   4.0

Notes:

1. All written work must be submitted in French. Note that directed studies, tutorials, and research papers are weighted differently in various departments. Courses from the University of Ottawa or another university must be approved by the Undergraduate Supervisor.

New Resources

Summary	Deletion of all Mention Francais associated with Canadian Studies B.A. programs.
Rationale for change	The B.A. degrees in Canadian Studies are not sustainable as there are no longer enough faculty to teach the courses and enrolment in the major programs has been in decline.
Transition/Implementation	The School will ensure that the requisite courses are offered (or appropriate alternatives identified) to enable remaining students to satisfy their degree requirements. The School will consult with the RO.

Program reviewer
comments

Key: 577

Program Change Request

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 11/21/24 9:08 am

Viewing: QCS : Minor in Québec Studies

Last approved: 04/18/23 3:32 pm

Last edit: 11/21/24 9:08 am

Last modified by: augustinepark

Changes proposed by: augustinepark

In Workflow

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

Approval Path

1. 11/21/24 11:33 am Paul Keen (paulkeen): Approved for CANS ChairDir UG
2. 11/21/24 12:38 pm Carmen Leblanc (carmenleblanc): Approved for FREN ChairDir UG
3. 11/21/24 2:07 pm Augustine Park (augustinepark): Approved for AS Dean
4. 11/29/24 9:16 am Augustine Park (augustinepark): Approved for AS FCC
5. 12/06/24 2:20 pm Augustine Park (augustinepark): Approved for AS FBoard

History

1. Apr 1, 2020 by Mireille Fournier (mireillefournier)
2. Apr 26, 2021 by Mireille Fournier (mireillefournier)
3. Apr 20, 2022 by Donna Malone (donnamalone)
4. Apr 18, 2023 by Mireille Fournier (mireillefournier)

Calendar Pages Using this Program	Canadian Studies French
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	QCS
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	Department of French Department of Canadian Studies
Degree	Not Applicable
Title	Minor in Québec Studies

Program Requirements

Minor in Québec Studies (4.0 credits)

Open to all undergraduate degree students. Additional courses containing Québec content may apply to the minor if approved by the Advisor in advance.

Students are required to present a Minor CGPA of 4.00 or higher at graduation in order to be awarded a Minor in Québec Studies.

Requirements:

1. **2.0 credits in:**   2.0

CDNS 2510 [0.5]	Memory and History in Québec	
CDNS 3550 [0.5]	Diversity in Québec and Francophone Canada	
FREN 2203 [0.5]	Introduction aux études littéraires: œuvres québécoises et canadiennes	
HIST 3301 [0.5]	Québec Since 1800	

2. **1.5 credits in** Approved Québec Studies Electives (see below)   1.5
3. **0.5 credit at** the 3000-level or above in Approved Québec Studies Electives (see below)   0.5

Total Credits   4.0

Approved Québec Studies Electives

Art History

ARTH 2002 [0.5]	Art in Canada

Canadian Studies

CDNS 2300 [0.5]	Nationalism and Multiculturalism in Canada
CDNS 4510 [0.5]	Special Topics in Québec Studies

Film Studies

FILM 3209 [0.5]	Special Topics in Canadian Cinema

French

FREN 2401 [1.0]	Introduction à la linguistique française
FREN 3219 [0.5]	Littératures canadiennes de langue française
FREN 3414 [0.5]	Sociolinguistique du français
FREN 3417 [0.5]	Le français au Canada
FREN 4213 [0.5]	Littérature québécoise et canadienne d'expression française
FREN 4300 [0.5]	Experiential Learning in French and Francophone Studies

History

HIST 2301 [0.5]	Canadian Political History
HIST 3206 [0.5]	Place and Politics in Canadian History
HIST 4303 [0.5]	Society and Culture in Canada
HIST 4304 [1.0]	Canada: Politics & Society

Political Science

PSCI 4005 [0.5]	Canadian Federalism
PSCI 4009 [0.5]	Quebec Politics

New Resources

Summary	Deletion of Minor in Quebec Studies.
Rationale for change	The minor in Quebec Studies is not sustainable as there are no longer enough faculty to teach the courses and enrolment has been in decline.
Transition/Implementation	The School will ensure that the requisite courses are offered (or appropriate alternatives identified) to enable remaining students to satisfy their degree requirements. The School will consult with the RO.

Program reviewer comments

Key: 1973

New Course Proposal

Date Submitted: 10/25/24 11:18 am

Viewing: **MECT 4907 : Engineering Project**

Last edit: 01/30/25 11:18 am

Changes proposed by: samuelajila

Programs referencing this course	Mechatronics Engineering Bachelor of Engineering

Approval Path

1. 10/25/24 11:23 am Samuel Ajila (samuelajila): Approved for FED ChairDir UG
2. 10/26/24 10:55 am Samuel Ajila (samuelajila): Approved for ENG FCC
3. 10/26/24 12:36 pm Samuel Ajila (samuelajila): Approved for ENG FBoard
4. 11/28/24 11:54 am Angel Wagner (angelwagner): Approved for PRE SCCASP
5. 12/08/24 1:20 pm Erika Strathearn (erikastrathearn): Approved for SCCASP
6. 02/18/25 12:04 pm Christina Noja (christinanoja): Approved for SQAPC

Effective Date	2025-26
Workflow	majormod
New Resources	No New Resources
Level	Undergraduate
Course Code	MECT

Course Number	4907
Title	Engineering Project
Title (short)	Engineering Project
Faculty	Faculty of Engineering and Design
Academic Unit	Engineering & Design (Faculty of)
Credit Value	1.0
Special/Selected Topics	Not Applicable
Significant Experiential Learning	Labs
Course Description	Student teams develop professional-level experience by applying previously acquired knowledge to a major design project. Project meetings discuss project-related issues and student presentations. A project proposal, interim report, oral presentations, and a comprehensive final report are required.
Prerequisite(s)	Fourth-year status in Engineering. Certain projects may have additional prerequisites.
Class Format	No formal lectures
Precluded Courses	
Also listed as	
Piggybacked Courses	
Grade Mode	Standard Letter Grade
Schedule Type	*Capstone *May constitute a major modification under Carleton's IQAP. Please consult https://carleton.ca/viceprovost/major-minor-modifications/ for more details.
Unpaid Placement	No
Summary	Add MECT 4907 to the list of courses for Mechatronics Engineering.
Rationale for new course	New capstone course for Mechatronics Engineering. The Quality Council asked the faculty to create a different capstone course for the new degree program.
Course reviewer comments	**angelwagner (11/05/24 12:44 pm):** Word limited exceeded in the Class Format field, changed to match other project courses as approved by S. Ajila. **angelwagner (11/12/24 4:52 pm):** Changed to major mod requested by R. Green.

New Program Proposal

Date Submitted: 10/03/24 2:06 pm

Viewing: **CERT-CJIC : Certificate in Journalism in Indigenous Communities**

Last edit: 02/18/25 12:41 pm

Last modified by: angelwagner

Changes proposed by: krysiakotarba

Approval Path

1. 10/02/24 7:02 pm
   Allan Thompson
   (allanthompson):
   Approved for JOUR
   ChairDir UG
2. 10/03/24 12:27 pm
   Vandna Bhatia
   (vandnabhatia): Rollback
   to Initiator
3. 10/04/24 3:49 pm
   Allan Thompson
   (allanthompson):
   Approved for JOUR
   ChairDir UG
4. 10/08/24 11:55 am
   Vandna Bhatia
   (vandnabhatia):
   Approved for PA Dean
5. 11/06/24 4:24 pm
   Vandna Bhatia
   (vandnabhatia):
   Approved for PA FCC
6. 11/21/24 2:20 pm
   Vandna Bhatia
   (vandnabhatia):
   Approved for PA FBoard
7. 01/15/25 4:30 pm
   Angel Wagner
   (angelwagner): Approved
   for PRE SCCASP
8. 01/21/25 10:42 am
   Erika Strathearn
   (erikastrathearn):
   Approved for SCCASP

Calendar Pages Using this Program	[Journalism](#)
Effective Date	2025-26
Workflow	majormod
Program Code	CERT-CJIC
Level	Undergraduate
Faculty	Faculty of Public Affairs
Academic Unit	School of Journalism and Communication (JOUR)
Degree	
Title	Certificate in Journalism in Indigenous Communities

Program Requirements

Certificate in Journalism in Indigenous Communities (4.5 credits)

A candidate for the Certificate in Journalism in Indigenous Communities must obtain a grade of C- or higher in all courses taken as part of the Certificate.

Requirements
1. **4.5 credits in:**   4.5

JOUR 1101 [0.0]	Indigenous Storytelling	
JOUR 1102 [0.0]	Foundations of Journalism	
JOUR 1103 [0.0]	Fundamentals of Journalism	
JOUR 1104 [0.0]	Introduction to Audio Journalism	
JOUR 1105 [0.0]	Digital and Photojournalism	
JOUR 1106 [0.0]	Entrepreneurial Journalism	
JOUR 1107 [0.0]	Internships	
JOUR 1108 [0.0]	Introduction to Video Journalism	
Total Credits		4.5

New Resources	Contract Instructor Support Staff/Admin. Staff Teaching Assistant
Summary	This one-year Certificate is designed for remote Indigenous learners in the province of Ontario. The courses will be taught primarily online, bolstered by three in-person intensives at a central location.

Rationale	The SJC will partner with two of Ontario's Indigenous Institutes (II) to develop a "braided learning" experience which ensures every learner has adequate social and cultural support for successful completion of the JIICC. The JIICC will feature a hybrid delivery model of learning. Students will gather three times in a central location over the course of their studies for in person intensive sessions, but the bulk of their studies will be carried out virtually from their home communities. Given that financial hardship has been identified by Indigenous students as a barrier to education success, a key component of the JIICC is that resources will be provided to cover student travel and accommodation for these intensive sessions. The JIICC will be offered as a standalone certificate for students who only wish to complete one year of study. For students interested in pursuing journalism further or university admission, we anticipate the JIICC will be a pathway to advanced standing directly into the second year of the Bachelor of Journalism Honours program or the 15-credit Bachelor Arts General Studies (Online).
Transition/Implementation	This will not have an impact on current students as it is only available to new Indigenous students. We anticipate that the JIICC will have a positive impact on recruitment of students for the SJC. We aim for an annual cohort of 20-25 students in the first two years. We will reassess after the first year whether these numbers are optimum and whether it is possible to expand beyond Ontario for possible student intake and run multiple cohorts. We are confident some will take the opportunity of advanced standing into second-year at Carleton's SJC to pursue an undergraduate BJ Honours degree. The JIICC may also serve as a pathway to enroll with advanced standing in Carleton's new online BA General Studies program.
Program reviewer comments	**vandnabhatia (10/03/24 12:27 pm):** Rollback: Please resubmit as per email communication. **lisachow (01/15/25 1:07 pm):** Updated program code from TBD-2286 to CERT-CJIC **angelwagner (02/18/25 12:41 pm):** The minimum grade changed to C- with the rationale that this is consistent with the Academic Regulations for BA non-honours 3-year degree programs. Approved by V. Bhatia in consultation with Journalism and Q.A.

Key: 2286

Course Change Request

New Course Proposal

Date Submitted: 10/17/24 3:47 pm

Viewing: **JOUR 1107 : Internships**

Last edit: 11/04/24 1:39 pm

Changes proposed by: krysiakotarba

Calendar Pages referencing this course	Journalism Journalism (JOUR) Journalism and Humanities
Programs referencing this course	Certificate in Journalism in Indigenous Communities

In Workflow

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

Approval Path

1. 10/02/24 7:05 pm Allan Thompson (allanthompson): Approved for JOUR ChairDir UG
2. 10/09/24 2:22 pm Vandna Bhatia (vandnabhatia): Rollback to Initiator
3. 10/17/24 4:03 pm Allan Thompson (allanthompson): Approved for JOUR ChairDir UG
4. 10/29/24 12:00 pm Vandna Bhatia (vandnabhatia): Approved for PA Dean
5. 11/06/24 4:24 pm Vandna Bhatia (vandnabhatia): Approved for PA FCC
6. 11/21/24 2:21 pm Vandna Bhatia (vandnabhatia): Approved for PA FBoard

Effective Date	2025-26
Workflow	majormod
New Resources	Contract Instructor
Level	Undergraduate
Course Code	JOUR
Course Number	1107
Title	Internships
Title (short)	Internships
Faculty	Faculty of Public Affairs
Academic Unit	School of Journalism and Communication (JOUR)
Credit Value	1.0
Special/Selected Topics	Not Applicable
Significant Experiential Learning	Practica or Placements (including Clinical Placements)
Course Description	During a two-week internship in a news or media organization, you'll have an opportunity to apply what you learned in the classroom to actual day-to-day work of reporting, writing, and producing news for an audience. Evaluations and student reflections round out the internship experience.
Prerequisite(s)	Enrolment in Journalism in Indigenous Communities Certificate program and JOUR 1102 and JOUR 1103.
Class Format	In-person intensive

Precluded Courses	
Also listed as	
Piggybacked Courses	
Grade Mode	Standard Letter Grade
Schedule Type	*Practicum
	*May constitute a major modification under Carleton's IQAP. Please consult https://carleton.ca/viceprovost/major-minor-modifications/ for more details.
Unpaid Placement	No
Summary	Assoc. with NP Journalism Indigenous Certificate. New course for the new Certificate in Journalism in Indigenous Communities
Rationale for new course	The School of Journalism and Communication is proposing to introduce a new undergraduate certificate to create a one-year Journalism in Indigenous Communities Certificate (JIICC), aimed at reaching remote Indigenous learners in the province of Ontario.
Course reviewer comments	**vandnabhatia (10/09/24 2:22 pm):** Rollback: As requested **angelwagner (11/04/24 1:39 pm):** Course number adjustments, JOUR 1101 changed to JOUR 1102 and JOUR 1002 changed to JOUR 1003 as per request by V. Bhatia.

Key: 11135

Preview Bridge

MEMORANDUM

To:	Vice-President's Academic and Research Committee (VPARC)
From:	Jesse Stewart, Head of Music, School for Studies in Art and Culture
CC:	Dean of FASS Anne Bowker and Associate Dean of FASS Augustine Park
Date:	October 15, 2024
Subject:	Major Modification to Music Program (SSAC), Track A1

Modification Description

In 2020, Carleton University's Music faculty began a multi-year, systematic overview of Carleton's Bachelor of Music program with a view of redesigning all facets of the program to foster greater equity, inclusion, and social justice in our programs. We feel that Carleton Music has for many years been a leader in these areas, but we are committed to doing even better.

One major orienting principle of our program is that it is student-centered. As far as possible, we aim to help students develop their own practices according to their own understanding of what they want to achieve. Nonetheless, we also seek to maintain standards of depth and rigour, so that students are challenged and have opportunities to develop their knowledge and skills in meaningful ways.

For the purposes of this re-envisioning process, we have assumed a rough division of resources and courses into the areas of creative practice, music theory, and history/musicology (including ethno-musicology and popular musicology), although we consider these categories to be conveniences rather than absolutes, and we want to do everything possible to emphasize crossover and hybridization between them.

In our efforts to overhaul and improve the BMus program, we have undertaken a series of consultations with students, contract instructors, ensemble directors, support staff, and performance instructors.

Creative Practice

We have decided to replace the existing audition format with an admission portfolio, in line with a broader definition of "creative practice." The admission guidelines are posted online at: https://admissions.carleton.ca/bachelor-of-music-audition-requirements/.

We will maintain traditional modes of performance evaluation (i.e. juries) where appropriate to particular students and add to our evaluation of creative practices a digital creative practice portfolio.

Music Theory

We are seeking to balance two factors in revamping the music theory area: (i) to maintain the credibility of professional training for students in traditions that require skills such as reading notation and doing conventional sorts of theory/analysis, but at the same time; (ii) to not privilege these traditions or skills by making them the definition of theory activities overall, and in so far as possible, to redesign the theory curriculum to be flexible and multi-purpose, introducing new areas as appropriate to support the

theoretical side of whichever traditions students are working within. The first set of changes to the music theory stream took effect in Fall 2024; additional changes will be implemented in Fall 2025.

History/Musicology

All changes to individual courses within the musicology stream have been motivated by an overarching concern for equity—we want to ensure that all Music students are exposed equally to all areas of our program in the first two years before they specialize in specific areas at the 3000 and 4000 level. To that end, we are introducing a new, required 1.0-credit course at the first-year level that will introduce students to all facets of musicology, namely Western musicology, popular musicology, ethnomusicology, and jazz. At the second-year level, we are introducing new required courses in ethnomusicology; popular musicology; historical Western musicology; and Canadian musicology. To move to this new equity-driven program structure, some courses needed to be repurposed, some created, and some were deemed redundant.

Within the revised musicology curriculum, there will be a clear progression from year-to-year, not in the sense of literal pre-requisites (although there might be a few of these), but in the sense that each year level is conceived as contributing a specific kind of experience or development. Thus, we are proposing the following:

- First year: A single, year-long required course for Music majors (B.Mus and BA Music). The main theme in this year would be groundwork for future years within the program.
- Second year: Broad survey courses in the areas of popular music, Western art music, jazz, and global/ethnomusicology. The main theme in this year would be introductions and surveys for major areas. We propose that of the second-year courses, students must take 2.0 credits: one course in each of the areas (Popular, World, WAM) and the Music in Canada course. MUSI 2005 ("Introduction to Jazz History, retitled as "Jazz Histories") will remain a second-year elective.
- Third year: More focused courses, both area courses and topic courses. Still quite broad, but allowing for the beginning of more specialized and in-depth study. The main theme in this year could be thought of in two ways: (a) reinforcement of general themes from second year; (b) introduction to advanced study.
- Fourth year: a mix of area courses and topic courses, although by this point the emphasis will be more on topics. The main difference from third year is that these will be at a more advanced level, so they will either be the second in a two-course series, or they will be standalone courses dealing with topics that are inherently more advanced (requiring greater theoretical depth, or more contextual knowledge).

The first set of changes to the musicology curriculum will be implemented in Fall 2025 with the final set of curriculum changes coming into effect in Fall 2026.

Impact on Other Programs

There will be no impact on other programs.

Societal Need

N/A.

Students

Students were consulted on the changes through a session, which took place on 13 January 2023 with 80 music students. The students provided feedback on Music curriculum, course offerings, performance evaluation, and end-of-year concerts. This feedback has been integrated into the proposed modifications.

Resources
No new resources are required.

Governance
No changes to governance of the Music program in SSAC.

Tuition

No change to tuition.

Table of Changes

Course Code	Course Title	Action	Modification Type
MUSI 1000	Introduction to the Study of Music	Deleted	Minor
MUSI 1001	A History of Western Classical Music: Medieval to the Present	Deleted	Minor
MUSI 1002	Issues in Popular Music	Deleted	Minor
MUSI 1020	Thinking about Music	Added	Minor
MUSI 1912	Choral Ensemble I	Deleted	Minor
MUSI 1913	Choral Ensemble II	Deleted	Minor
MUSI 1914	Ensemble I	Edited	Minor
MUSI 1915	Ensemble II	Edited	Minor
MUSI 2005	Jazz History	Edited	Minor
MUSI 2006	Popular Musics before 1945	Deleted	Minor
MUSI 2007	Popular Musics 1945-1980	Edited	Minor
MUSI 2008	Music of the World's Peoples	Edited	Minor
MUSI 2108	Western Art Music 1750-1900	Added	Minor
MUSI 2203	Music in Canada	Added	Minor
MUSI 2912	Choral Ensemble III	Deleted	Minor
MUSI 2913	Choral Ensemble IV	Deleted	Minor
MUSI 2914	Ensemble III	Edited	Minor
MUSI 2915	Ensemble IV	Edited	Minor
MUSI 3006	Popular Music Before 1945	Added	Minor
MUSI 3103	Music in Canada	Deleted	Minor
MUSI 3106	Popular Musics of the World	Edited	Minor
MUSI 3205	Specialized Academic Studies	Edited	Minor
MUSI 3206	Specialized Performance Studies	Edited	Minor
MUSI 3301	Music, Religion, and Spiritual Practices	Edited	Minor
MUSI 3303	Principles and Practices of Music Therapy	Edited	Minor
MUSI 3912	Choral Ensemble V	Deleted	Minor
MUSI 3913	Choral Ensemble VI	Deleted	Minor
MUSI 3914	Ensemble V	Edited	Minor
MUSI 3915	Ensemble VI	Edited	Minor
MUSI 4206	Specialized Performance Studies	Edited	Minor
MUSI 4906	Honours Portfolio in Composition	Edited	Minor

MUSI 4909	Portfolio in New Media	Edited	Minor
MUSI 4912	Choral Ensemble VII	Deleted	Minor
MUSI 4913	Choral Ensemble VIII	Deleted	Minor
MUSI 4914	Ensemble VII	Edited	Minor
MUSI 4915	Ensemble VIII	Edited	Minor

Date Submitted: 08/22/24 4:19 pm

Viewing: **GBA-23 : Music B.A.**

Last approved: 06/24/20 3:10 pm

Last edit: 01/23/25 11:16 am

Last modified by: angelwagner

Changes proposed by: kristinguth

Approval Path

1. 09/17/24 6:17 pm
   Mitchell Frank
   (mitchellfrank):
   Approved for ARTC
   ChairDir UG
2. 09/25/24 11:01 am
   Sarah Mohammed
   (sarahmohammed):
   Approved for AS FCC
3. 12/06/24 2:19 pm
   Augustine Park
   (augustinepark):
   Approved for AS FBoard
4. 01/15/25 4:34 pm
   Angel Wagner
   (angelwagner): Approved
   for PRE SCCASP
5. 01/21/25 10:43 am
   Erika Strathearn
   (erikastrathearn):
   Approved for SCCASP
6. 02/18/25 11:51 am
   Christina Noja
   (christinanoja): Approved
   for SQAPC

History

1. Feb 27, 2014 by sandra
2. Jun 5, 2017 by Sandra
   Bauer (sandrabauer)
3. Jun 24, 2020 by Sarah
   Cleary (sarahcleary)

Calendar Pages Using this Program	Music
Effective Date	2025-26
Workflow	majormod minormod
Program Code	GBA-23
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	School for Studies in Art and Culture
Degree	Bachelor of Arts
Title	Music B.A.

Program Requirements

Music
B.A. (15.0 credits)

A. Credits Included in the Major CGPA (7.0 credits)

1. 1.5 credits from:		1.5
MUSI 1000 [0.0]	Course MUSI 1000 Not Found	
MUSI 1001 [0.0]	Course MUSI 1001 Not Found	
MUSI 1002 [0.0]	Course MUSI 1002 Not Found	
1. 1.0 credit in:		1.0
MUSI 1020 [0.0]	Thinking About Music	
2. 1.0 credit in Music History and Musicology selected from:		1.0
MUSI 2007 [0.5]	Popular Music 1945-1980	
MUSI 2008 [0.5]	Music of the World's Peoples	
2. 0.5 credit in Music History and Musicology at the 2000-level		0.5
MUSI 2108 [0.0]	Western Art Music 1750-1900	
3. 2.0 credits in MUSI at the 2000-level		2.0
4. 2.0 credits in MUSI at the 3000-level		2.0
5. 1.0 credit in MUSI		1.0
B. Credits Not Included in the Major CGPA (8.0 credits)		
6. 6.0 credits in electives not in MUSI, not cross-listed with MUSI		7.0
7. 2.0 credits in free electives		1.0
Total Credits		15.0

New Resources	No New Resources
Summary	Requirement #1 - Removed MUSI 1000, MUSI 1001 and MUSI 1002, all courses which are no longer offered. MUSI 2008 was reallocated to Requirement #2. Reduced requirement #1 from 1.5 credits to 1.0 credits, to be fulfilled with MUSI 1020 (new 1.0 credit course).

	Requirement #2 - Increased requirement from 0.5 credit to 1.0 credit, and added a course list (must select 2 out of 3 course options) containing MUSI 2007, MUSI 2008 and MUSI 2108.
Rationale for change	All changes to individual courses (including the cancellation of some, revisions to others, and the creation of new courses) are motivated by an overarching concern for equity—we want to ensure that all Music students are exposed equally to all areas of our program in the first two years before they specialize in specific areas at the 3000 and 4000 level. To that end, we are introducing a new 1.0 required first-year course, MUSI 1020 Thinking About Music, that will introduce students to all facets of musicology, namely Western musicology, popular musicology, ethnomusicology, and jazz. At the second-year level, we are introducing new required courses in ethnomusicology; popular musicology; historical Western musicology; and Canadian musicology. To move to this new equity-driven program structure, some courses needed to be repurposed, some created, some were deemed redundant. This overarching consideration necessitated that some program-level changes be made to ensure that the overall number of credits in the degrees remain the same.
Transition/Implementation	When the new 1020 course is implemented (Fall 2025), there may be a few students in upper years who have not yet completed MUSI 1000, 1001, and 1002—the three courses that the new 1020 course is replacing. If a student has completed MUSI 1000 plus one of the other two courses (MUSI 1001 or 1002), we would not require them to complete the new 1.0 credit 1020 course. In this scenario, we would make a DARS exception. In the unlikely event that a student has completed only one of 1000, 1001, and 1002, they would be required to complete the new 1.0 credit 1020 course, which would be used to satisfy degree requirement #1. Likewise, if a student has completed MUSI 1001 and 1002, but not MUSI 1000, they would be required to complete the new 1020 course, which (like MUSI 1000) will introduce them to research methods that will help them succeed at subsequent stages of the program. But we would like to emphasize that there will be very few, if any, students requiring these sorts of accommodations.
Program reviewer comments	**angelwagner (01/23/25 11:09 am):** Editorial: 1. change to "credit in"

Date Submitted: 08/22/24 4:56 pm

Viewing: **HBA-23 : Music B.A. Honours**

Last approved: 02/27/14 4:49 pm

Last edit: 01/23/25 11:12 am

Last modified by: angelwagner

Changes proposed by: kristinguth

Approval Path

1. 09/17/24 6:17 pm
   Mitchell Frank
   (mitchellfrank):
   Approved for ARTC
   ChairDir UG
2. 09/25/24 11:00 am
   Sarah Mohammed
   (sarahmohammed):
   Approved for AS FCC
3. 12/06/24 2:19 pm
   Augustine Park
   (augustinepark):
   Approved for AS FBoard
4. 01/15/25 4:35 pm
   Angel Wagner
   (angelwagner): Approved
   for PRE SCCASP
5. 01/21/25 10:43 am
   Erika Strathearn
   (erikastrathearn):
   Approved for SCCASP
6. 02/18/25 11:52 am
   Christina Noja
   (christinanoja): Approved
   for SQAPC

History

1. Feb 27, 2014 by sandra

Calendar Pages Using this Program	Music

Effective Date	2025-26

Workflow	majormod ~~minormod~~
Program Code	HBA-23
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	School for Studies in Art and Culture
Degree	Bachelor of Arts Honours
Title	Music B.A. Honours

Program Requirements

Music
B.A. Honours (20.0 credits)

A. Credits Included in the Major CGPA (10.0 credits)

1. 1.0 credit in:		**1.0**
MUSI 1020 [0.0]	Thinking About Music	
2. 1.5 credits in:		1.5
~~MUSI 1000 [0.0]~~	~~Course MUSI 1000 Not Found~~	
~~MUSI 1001 [0.0]~~	~~Course MUSI 1001 Not Found~~	
~~MUSI 1002 [0.0]~~	~~Course MUSI 1002 Not Found~~	
MUSI 2007 [0.5]	Popular Music 1945-1980	
MUSI 2008 [0.5]	Music of the World's Peoples	
~~2. 0.5 credit in Music History and Musicology at the 2000-level~~		~~0.5~~
~~3. 1.0 credit in Music History and Musicology at the 3000-level~~		~~1.0~~
MUSI 2108 [0.0]	Western Art Music 1750-1900	
3. 0.5 credit in Music History and Musicology at the 3000-level		**0.5**
4. 2.0 credits in MUSI at the 2000-level		2.0
5. 2.0 credits in MUSI at the 3000-level		2.0
6. 2.0 credits in MUSI at the 4000-level		2.0
7. 1.0 credit in MUSI		1.0
B. Credits Not Included in the Major CGPA (10.0 credits)		
8. 8.0 credits in electives not in MUSI, not cross-listed with MUSI		8.0
9. 2.0 credits in free electives		2.0
Total Credits		20.0

New Resources	No New Resources
Summary	Requirement #1 - Removed MUSI 1000, MUSI 1001 and MUSI 1002, all courses which are no longer offered. MUSI 2008 was reallocated to Requirement #2. Reduced requirement #1 from 1.5 credits to 1.0 credits, to be fulfilled with MUSI 1020 (new 1.0 credit course).
	Requirement #2 - Increased requirement from 0.5 credit to 1.5 credit. New requirements are MUSI 2007, MUSI 2008 and MUSI 2108.

	Requirement #3 - Reduced requirement from 1.0 credits to 0.5 credits.
Rationale for change	All changes to individual courses (including the cancellation of some, revisions to others, and the creation of new courses) are motivated by an overarching concern for equity—we want to ensure that all Music students are exposed equally to all areas of our program in the first two years before they specialize in specific areas at the 3000 and 4000 level. To that end, we are introducing a new 1.0 required first-year course, MUSI 1020 Thinking About Music, that will introduce students to all facets of musicology, namely Western musicology, popular musicology, ethnomusicology, and jazz. At the second-year level, we are introducing new required courses in ethnomusicology; popular musicology; historical Western musicology; and Canadian musicology. To move to this new equity-driven program structure, some courses needed to be repurposed, some created, some were deemed redundant. This overarching consideration necessitated that some program-level changes be made to ensure that the overall number of credits in the degrees remain the same.
Transition/Implementation	When the new 1020 course is implemented (Fall 2025), there may be a few students in upper years who have not yet completed MUSI 1000, 1001, and 1002—the three courses that the new 1020 course is replacing. If a student has completed MUSI 1000 plus one of the other two courses (MUSI 1001 or 1002), we would not require them to complete the new 1.0 credit 1020 course. In this scenario, we would make a DARS exception. In the unlikely event that a student has completed only one of 1000, 1001, and 1002, they would be required to complete the new 1.0 credit 1020 course, which would be used to satisfy degree requirement #1. Likewise, if a student has completed MUSI 1001 and 1002, but not MUSI 1000, they would be required to complete the new 1020 course, which (like MUSI 1000) will introduce them to research methods that will help them succeed at subsequent stages of the program. But we would like to emphasize that there will be very few, if any, students requiring these sorts of accommodations.
Program reviewer comments	**angelwagner (01/23/25 11:12 am):** Editorial: 1. changed to "credit in", 2. changed to "credits in"

Date Submitted: 08/22/24 5:05 pm

Viewing: **HBA-23+ : Music B.A. Combined Honours**

Last approved: 04/10/23 11:31 am

Last edit: 01/23/25 11:15 am

Last modified by: angelwagner

Changes proposed by: kristinguth

In Workflow

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

Approval Path

1. 09/17/24 6:17 pm
   Mitchell Frank
   (mitchellfrank):
   Approved for ARTC
   ChairDir UG
2. 09/25/24 11:01 am
   Sarah Mohammed
   (sarahmohammed):
   Approved for AS FCC
3. 11/29/24 8:51 am
   Augustine Park
   (augustinepark):
   Approved for AS FBoard
4. 01/15/25 4:34 pm
   Angel Wagner
   (angelwagner): Approved
   for PRE SCCASP
5. 01/21/25 10:44 am
   Erika Strathearn
   (erikastrathearn):
   Approved for SCCASP
6. 02/18/25 11:51 am
   Christina Noja
   (christinanoja): Approved
   for SQAPC

History

1. Feb 27, 2014 by sandra
2. Jun 5, 2017 by Sandra
   Bauer (sandrabauer)
3. Apr 10, 2023 by Natalie
   Phelan (nataliephelan)

Calendar Pages Using this Program	Music
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	HBA-23+
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	School for Studies in Art and Culture
Degree	Bachelor of Arts Honours
Title	Music B.A. Combined Honours

Program Requirements

Music
B.A. Combined Honours (20.0 credits)

A. Credits Included in the Major CGPA (7.0 credits)

~~1. 1.5 credits from:~~		~~1.5~~
~~MUSI 1000 [0.0]~~	~~Course MUSI 1000 Not Found~~	
~~MUSI 1001 [0.0]~~	~~Course MUSI 1001 Not Found~~	
~~MUSI 1002 [0.0]~~	~~Course MUSI 1002 Not Found~~	
~~MUSI 2008 [0.5]~~	~~Music of the World's Peoples~~	
1. Music History and Musicology:		
a. 1.0 credit in:		1.0
MUSI 1020 [0.0]	Thinking About Music	
b. 0.5 credit in Music History and Musicology at the 2000-level		0.5
2. **1.5 credits in** MUSI at the 2000-level		1.5
3. **2.0 credits in** MUSI at the 3000-level		2.0
4. **1.0 credit in** MUSI at the 4000-level		1.0
5. **1.0 credit in** MUSI		1.0
B. Additional Requirements (13.0 credits)		13.0
6. The requirements from the other discipline must be satisfied		
7. Sufficient free electives to make 20.0 credits total for the program		
Total Credits		20.0

New Resources	No New Resources
Summary	Requirement #1 - Removed MUSI 1000, MUSI 1001 and MUSI 1002, all courses which are no longer offered. Removed MUSI 2008. Created section A, requirement 1.0 credit in MUSI 1020, and section B, requirement 0.5 credit in Music History and Musicology at the 2000-level.

Rationale for change	All changes to individual courses (including the cancellation of some, revisions to others, and the creation of new courses) are motivated by an overarching concern for equity—we want to ensure that all Music students are exposed equally to all areas of our program in the first two years before they specialize in specific areas at the 3000 and 4000 level. To that end, we are introducing a new 1.0 required first-year course, MUSI 1020 Thinking About Music, that will introduce students to all facets of musicology, namely Western musicology, popular musicology, ethnomusicology, and jazz. At the second-year level, we are introducing new required courses in ethnomusicology; popular musicology; historical Western musicology; and Canadian musicology. To move to this new equity-driven program structure, some courses needed to be repurposed, some created, some were deemed redundant. This overarching consideration necessitated that some program-level changes be made to ensure that the overall number of credits in the degrees remain the same.
Transition/Implementation	When the new 1020 course is implemented (Fall 2025), there may be a few students in upper years who have not yet completed MUSI 1000, 1001, and 1002—the three courses that the new 1020 course is replacing. If a student has completed MUSI 1000 plus one of the other two courses (MUSI 1001 or 1002), we would not require them to complete the new 1.0 credit 1020 course. In this scenario, we would make a DARS exception. In the unlikely event that a student has completed only one of 1000, 1001, and 1002, they would be required to complete the new 1.0 credit 1020 course, which would be used to satisfy degree requirement #1. Likewise, if a student has completed MUSI 1001 and 1002, but not MUSI 1000, they would be required to complete the new 1020 course, which (like MUSI 1000) will introduce them to research methods that will help them succeed at subsequent stages of the program. But we would like to emphasize that there will be very few, if any, students requiring these sorts of accommodations.
Program reviewer comments	**angelwagner (01/23/25 11:15 am):** Editorial: 1. b. changed to "credit" in

Program Change Request

Date Submitted: 08/22/24 5:21 pm

Viewing: **BMUS-UMUS : Music B.Mus. Honours**

Last approved: 04/19/24 4:12 pm

Last edit: 09/20/24 9:55 am

Last modified by: robyngreen

Changes proposed by: kristinguth

<div style="float:right">

In Workflow

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

Approval Path

1. 09/17/24 6:17 pm Mitchell Frank (mitchellfrank): Approved for ARTC ChairDir UG
2. 09/25/24 11:00 am Sarah Mohammed (sarahmohammed): Approved for AS FCC
3. 12/06/24 2:19 pm Augustine Park (augustinepark): Approved for AS FBoard

History

1. Feb 27, 2014 by sandra
2. Mar 16, 2017 by Kristin Guth (kristinguth)
3. Apr 3, 2024 by Kristin Guth (kristinguth)
4. Apr 19, 2024 by Natalie Phelan (nataliephelan)

</div>

Calendar Pages Using this Program	Music
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	BMUS-UMUS
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	School for Studies in Art and Culture
Degree	Bachelor of Music
Title	Music B.Mus. Honours

Program Requirements

Music
B.Mus. Honours (20.0 credits)

A. Credits Included in the Major CGPA (14.5 credits)
1. Performance: 3.0 credits in: 3.0

MUSI 1900 [0.5]	Performance I	
MUSI 1901 [0.5]	Performance II	
MUSI 2900 [0.5]	Performance III	
MUSI 2901 [0.5]	Performance IV	
MUSI 3900 [0.5]	Performance V	
MUSI 3901 [0.5]	Performance VI	

2. Music Theory:
   a. 3.0 credits in: 3.0

Date Submitted: 08/22/24 5:05 pm

Viewing: **HBA-23+ : Music B.A. Combined Honours**

Last approved: 04/10/23 11:31 am

Last edit: 01/23/25 11:15 am

Last modified by: angelwagner

Changes proposed by: kristinguth

Approval Path

1. 09/17/24 6:17 pm
   Mitchell Frank
   (mitchellfrank):
   Approved for ARTC
   ChairDir UG
2. 09/25/24 11:01 am
   Sarah Mohammed
   (sarahmohammed):
   Approved for AS FCC
3. 11/29/24 8:51 am
   Augustine Park
   (augustinepark):
   Approved for AS FBoard
4. 01/15/25 4:34 pm
   Angel Wagner
   (angelwagner): Approved
   for PRE SCCASP
5. 01/21/25 10:44 am
   Erika Strathearn
   (erikastrathearn):
   Approved for SCCASP
6. 02/18/25 11:51 am
   Christina Noja
   (christinanoja): Approved
   for SQAPC

History

1. Feb 27, 2014 by sandra
2. Jun 5, 2017 by Sandra
   Bauer (sandrabauer)
3. Apr 10, 2023 by Natalie
   Phelan (nataliephelan)

Calendar Pages Using this Program	Music
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	HBA-23+
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	School for Studies in Art and Culture
Degree	Bachelor of Arts Honours
Title	Music B.A. Combined Honours

Program Requirements

Music
B.A. Combined Honours (20.0 credits)

A. Credits Included in the Major CGPA (7.0 credits)

~~1. 1.5 credits from:~~		~~1.5~~
~~MUSI 1000 [0.0]~~	~~Course MUSI 1000 Not Found~~	
~~MUSI 1001 [0.0]~~	~~Course MUSI 1001 Not Found~~	
~~MUSI 1002 [0.0]~~	~~Course MUSI 1002 Not Found~~	
~~MUSI 2008 [0.5]~~	~~Music of the World's Peoples~~	
1. Music History and Musicology:		
a. 1.0 credit in:		1.0
MUSI 1020 [0.0]	Thinking About Music	
b. 0.5 credit in Music History and Musicology at the 2000-level		0.5
2. 1.5 credits in MUSI at the 2000-level		1.5
3. 2.0 credits in MUSI at the 3000-level		2.0
4. 1.0 credit in MUSI at the 4000-level		1.0
5. 1.0 credit in MUSI		1.0
B. Additional Requirements (13.0 credits)		13.0
6. The requirements from the other discipline must be satisfied		
7. Sufficient free electives to make 20.0 credits total for the program		
Total Credits		20.0

New Resources	No New Resources
Summary	Requirement #1 - Removed MUSI 1000, MUSI 1001 and MUSI 1002, all courses which are no longer offered. Removed MUSI 2008. Created section A, requirement 1.0 credit in MUSI 1020, and section B, requirement 0.5 credit in Music History and Musicology at the 2000-level.

Rationale for change	All changes to individual courses (including the cancellation of some, revisions to others, and the creation of new courses) are motivated by an overarching concern for equity—we want to ensure that all Music students are exposed equally to all areas of our program in the first two years before they specialize in specific areas at the 3000 and 4000 level. To that end, we are introducing a new 1.0 required first-year course, MUSI 1020 Thinking About Music, that will introduce students to all facets of musicology, namely Western musicology, popular musicology, ethnomusicology, and jazz. At the second-year level, we are introducing new required courses in ethnomusicology; popular musicology; historical Western musicology; and Canadian musicology. To move to this new equity-driven program structure, some courses needed to be repurposed, some created, some were deemed redundant. This overarching consideration necessitated that some program-level changes be made to ensure that the overall number of credits in the degrees remain the same.
Transition/Implementation	When the new 1020 course is implemented (Fall 2025), there may be a few students in upper years who have not yet completed MUSI 1000, 1001, and 1002—the three courses that the new 1020 course is replacing. If a student has completed MUSI 1000 plus one of the other two courses (MUSI 1001 or 1002), we would not require them to complete the new 1.0 credit 1020 course. In this scenario, we would make a DARS exception. In the unlikely event that a student has completed only one of 1000, 1001, and 1002, they would be required to complete the new 1.0 credit 1020 course, which would be used to satisfy degree requirement #1. Likewise, if a student has completed MUSI 1001 and 1002, but not MUSI 1000, they would be required to complete the new 1020 course, which (like MUSI 1000) will introduce them to research methods that will help them succeed at subsequent stages of the program. But we would like to emphasize that there will be very few, if any, students requiring these sorts of accommodations.
Program reviewer comments	**angelwagner (01/23/25 11:15 am):** Editorial: 1. b. changed to "credit" in

MUSI 1700 [0.5]	Foundations of Music Theory	
MUSI 1701 [0.5]	Tonal Music Literacy	
MUSI 1720 [0.5]	Vocal Musicianship	
MUSI 1711 [0.5]	Applied Rhythmic Training I	
MUSI 2710 [0.5]	Aural Training	
MUSI 2711 [0.5]	Applied Rhythmic Training II	

b. 1.0 credits from: 1.0

MUSI 2607 [0.5]	Digital Music Literacy
MUSI 2700 [0.5]	Western Art Music Theory
MUSI 2701 [0.5]	Popular Music Practice

c. 0.5 credit from: 0.5

MUSI 3700 [0.5]	Seminar in Theory and Analysis
MUSI 3701 [0.5]	Jazz Styles and Structures
MUSI 3710 [0.5]	Global Music Theories
MUSI 4700 [0.5]	Advanced Seminar in Theory and Analysis
MUSI 4701 [0.5]	Introduction to Jazz Arranging
MUSI 4704 [0.5]	Tonal Counterpoint
MUSI 4705 [0.5]	Post-Tonal Theory and Analysis

3. Music History and Musicology:

a. 1.0 credits in: 1.0

MUSI 1020 [0.0]	Thinking About Music

b. 2.0 credit in: 2.0

~~MUSI 1000 [0.0]~~	~~Course MUSI 1000 Not Found~~
~~MUSI 1001 [0.0]~~	~~Course MUSI 1001 Not Found~~
~~MUSI 1002 [0.0]~~	~~Course MUSI 1002 Not Found~~
MUSI 2007 [0.5]	Popular Music 1945-1980
MUSI 2008 [0.5]	Music of the World's Peoples

~~b. 0.5 credit in Music History and Musicology at the 2000-level~~   ~~0.5~~

MUSI 2108 [0.0]	Western Art Music 1750-1900
MUSI 2203 [0.0]	Music in Canada

c. 0.5 credit in Music History and Musicology at the 3000-level   0.5

~~MUSI 3103 [0.0]~~	~~Course MUSI 3103 Not Found~~
~~MUSI 3104 [0.5]~~	~~Popular Musics of Canada~~
~~MUSI 4103 [0.5]~~	~~Music, Migration and Diaspora in Canada~~
~~MUSI 4104 [0.5]~~	~~First Peoples Music in Canada~~

~~d. 0.5 credit in Music History and Musicology at the 3000-level~~   ~~0.5~~

4. 3.5 credits in MUSI, satisfying: 3.5

     a. 1.0 credit in MUSI at the 2000-level

     b. 1.0 credit in MUSI at the 3000-level

     c. 1.5 credit in MUSI at the 4000-level

B. Credits Not Included in the Major CGPA (5.5 credits)

5. 3.0 credits not in MUSI, not cross-listed with MUSI   3.0

6. 2.5 credits in free electives   2.5

C. Additional Non-Credit Requirements

7. Satisfactory performance in eight Ensemble courses, which may be fulfilled by choir participation or by some other ensemble (see list in Course Categories, above).

Total Credits	20.0

New Resources	No New Resources
Summary	Requirement #3 Music History and Musicology - sections a, b and c have been modified, and section d has been deleted.
	Section A - Reduced credits from 2.0 to 1.0. Removed MUSI 1000, MUSI 1001 and MUSI 1002, all courses which are no longer offered. Reallocated MUSI 2008 to section b. New 1.0 requirement is MUSI 1020 (1.0 credit).
	Section B - Increased credits from 0.5 to 2.0. Requirement includes MUSI 2007, MSUI 2008, MUSI 2108, MUSI 2203.
	Section C - Removed course list. Requirement is 0.5 credit in Music History and Musicology at the 3000-level.
	Section D - deleted.
Rationale for change	All changes to individual courses (including the cancellation of some, revisions to others, and the creation of new courses) are motivated by an overarching concern for equity—we want to ensure that all Music students are exposed equally to all areas of our program in the first two years before they specialize in specific areas at the 3000 and 4000 level. To that end, we are introducing a new 1.0 required first-year course, MUSI 1020 Thinking About Music, that will introduce students to all facets of musicology, namely Western musicology, popular musicology, ethnomusicology, and jazz. At the second-year level, we are introducing new required courses in ethnomusicology; popular musicology; historical Western musicology; and Canadian musicology. To move to this new equity-driven program structure, some courses needed to be repurposed, some created, some were deemed redundant. This overarching consideration necessitated that some program-level changes be made to ensure that the overall number of credits in the degrees remain the same.
Transition/Implementation	When the new 1020 Thinking About Music course is implemented (Fall 2025), there may be a few students in upper years who have not yet completed MUSI 1000, 1001, and 1002—the three courses that the new 1020 course is replacing. If a student has completed MUSI 1000 plus one of the other two courses (MUSI 1001 or 1002), we would not require them to complete the new 1.0 credit 1020 course. In this scenario, we would make a DARS exception, in which degree requirement #3b would be decreased by 0.5 credits with a corresponding increase in free electives. In the unlikely event that a student has completed only one of 1000, 1001, and 1002, they would be required to complete the new 1.0 credit 1020 course, which would be used to satisfy degree requirement #3b. Likewise, if a student has completed MUSI 1001 and 1002, but not MUSI 1000, they would be required to complete the new 1020 course, which (like MUSI 1000) will introduce them to research methods that will help them succeed at subsequent stages of the program. But we would like to emphasize that there will be very few, if any, students requiring these sorts of accommodations.

Program reviewer
comments

Program Change Request

Date Submitted: 08/22/24 3:54 pm

Viewing: **N8 : Minor in Music**

Last approved: 02/17/23 3:27 pm

Last edit: 08/22/24 5:00 pm

Last modified by: kristinguth

<u>Changes proposed by: kristinguth</u>

In Workflow

1. **ARTC ChairDir UG**
2. **AS FCC**
3. **AS FBoard**
4. **PRE SCCASP**
5. SCCASP
6. PRE CalEditor
7. CalEditor

Approval Path

1. 09/17/24 6:17 pm
   Mitchell Frank
   (mitchellfrank):
   Approved for ARTC
   ChairDir UG
2. 09/25/24 11:01 am
   Sarah Mohammed
   (sarahmohammed):
   Approved for AS FCC
3. 12/06/24 2:19 pm
   Augustine Park
   (augustinepark):
   Approved for AS FBoard

History

1. Feb 27, 2014 by sandra
2. Jan 4, 2018 by Kristin
   Guth (kristinguth)
3. Feb 17, 2023 by Natalie
   Phelan (nataliephelan)

Calendar Pages Using this Program	<u>Music</u>
Effective Date	2025-26
Workflow	minormod
Program Code	N8
Level	Undergraduate
Faculty	Faculty of Arts and Social Sciences
Academic Unit	School for Studies in Art and Culture
Degree	Not Applicable
Title	Minor in Music

Program Requirements

Minor in Music (4.0 credits)

Open to all undergraduate degree students not in Music programs.

Students are required to present a Minor CGPA of 4.00 or higher at graduation in order to be awarded a Minor in Music.

Requirements

1. **1.0 credit in:**		1.0
~~MUSI 1001 [0.0]~~	~~Course MUSI 1001 Not Found~~	
~~MUSI 1002 [0.0]~~	~~Course MUSI 1002 Not Found~~	
~~MUSI 2008 [0.5]~~	~~Music of the World's Peoples~~	
MUSI 1020 [0.0]	Thinking About Music	
2. **1.0 credit in** MUSI at the 2000-level		1.0
3. **1.0 credit in** MUSI at the 3000-level		1.0
4. **1.0 credit in** MUSI		1.0
5. The remaining requirements of the major discipline(s) and degree must be satisfied.		
Total Credits		4.0

New Resources	No New Resources
Summary	Requirement #1 - removed MUSI 1001 (no longer offered, MUSI 1002 (no longer offered) and MUSI 2008. The credit value for this requirement remains the same, and is to be fulfilled with MUSI 1020 (new 1.0 credit course).
Rationale for change	All changes to individual courses (including the cancellation of some, revisions to others, and the creation of new courses) are motivated by an overarching concern for equity—we want to ensure that all Music students are exposed equally to all areas of our program in the first two years before they specialize in specific areas at the 3000 and 4000 level. To that end, we are introducing a new 1.0 required first-year course, MUSI 1020 Thinking About Music, that will introduce students to all facets of musicology, namely Western musicology, popular musicology, ethnomusicology, and jazz. At the second-year level, we are introducing new required courses in ethnomusicology; popular musicology; historical Western musicology; and Canadian musicology. To move to this new equity-driven program structure, some courses needed to be repurposed, some created, some were deemed redundant. This overarching consideration necessitated that some program-level changes be made to ensure that the overall number of credits in the degrees remain the same.
Transition/Implementation	With the implementation of the new course MUSI 1020 (Fall 2025), there may be a few students in upper years who have not yet completed MUSI 1001 and/or MUSI 1002 that the new MUSI 1020 course is replacing. If a student has not completed both MUSI 1001 (0.5 credit) and 1002 (0.5 credit), then they will be required to take MUSI 1020. In this scenario, if they must take MUSI 1020 (1.0 credit), and they have already taken MUSI 2008 (fulfilling 0.5 credit, which is half of requirement #1 in old program) then MUSI 2008 will automatically move to fulfilling Requirement #2.

If a student has completed 0.5 credit in either MUSI 1001 or MUSI 1002, we will not require them to take MUSI 1020 (1.0 credit). In this scenario, they can still take MUSI 2008 (will continue to be offered yearly) and fulfill requirement #1 with either MUSI 1001 and MUSI 2008, or MUSI 1002 and MUSI 2008. |

Program reviewer comments

Key: 727

Course Change Request

Date Submitted: 11/05/24 12:23 pm

Viewing: **MUSI 4800 : Practicum in Music**

Last approved: 01/15/19 3:17 am

Last edit: 01/13/25 3:08 pm

Changes proposed by: kristinguth

Calendar Pages referencing this course	Music Music (MUSI)
Programs referencing this course	ELECTIVES - Music Course Categories (UG) Certificate in Carillon Studies

In Workflow

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

Approval Path

1. 08/21/24 1:13 pm Mitchell Frank (mitchellfrank): Approved for ARTC ChairDir UG
2. 10/01/24 8:40 am Augustine Park (augustinepark): Rollback to Initiator
3. 11/05/24 1:34 pm Mitchell Frank (mitchellfrank): Approved for ARTC ChairDir UG
4. 11/07/24 1:47 pm Augustine Park (augustinepark): Approved for AS FCC
5. 12/06/24 2:18 pm Augustine Park (augustinepark): Approved for AS FBoard

History

1. Jun 23, 2017 by Anshul Singh (anshulsingh)
2. Jan 15, 2019 by Mike Labreque (mikelabreque)

Effective Date	2025-26
Workflow	majormod ~~minormod~~
Level	Undergraduate
Course Code	MUSI
Course Number	4800
Title	Practicum in Music
Title (short)	Practicum in Music
Faculty	Faculty of Arts and Social Sciences
Academic Unit	School for Studies in Art and Culture
Credit Value	0.50
Special/Selected Topics	Not Applicable
Significant Experiential Learning	Practica or Placements (including Clinical Placements)
Course Description	Practical experience in music-specific projects such as recording studios, librarianship, research, multimedia, etc. at local institutions. Placements are planned with the Practica Supervisor and a proposal is required. A maximum of one credit of practicum may be offered in fulfillment ~~fulfilment~~ of Music requirements.

Prerequisite(s)	BMus or BA ~~Honours~~ Music Honours students ~~registration~~ with third or ~~third- or~~ fourth-year standing and minimum 9.0 CGPA. ~~a B+ or better average in Music courses; and permission of the Practica Supervisor.~~
Class Format	
Precluded Courses	
Also listed as	
Piggybacked Courses	
Grade Mode	Standard Letter Grade
Schedule Type	*Practicum
	*May constitute a major modification under Carleton's IQAP. Please consult https://carleton.ca/viceprovost/major-minor-modifications/ for more details.
Unpaid Placement	Yes
Summary	Edited description and prerequisite.
Rationale for change	All changes to individual courses (including the cancellation of some, revisions to others, and the creation of new courses) are motivated by an overarching concern for equity—we want to ensure that all Music students are exposed equally to all areas of our program in the first two years before they specialize in specific areas at the 3000 and 4000 level. To that end, we are introducing a new 1.0 required first-year course that will introduce students to all facets of musicology, namely Western musicology, popular musicology, ethnomusicology, and jazz. At the second-year level, we are introducing new required courses in ethnomusicology; popular musicology; historical Western musicology; and Canadian musicology. To move to this new equity-driven program structure, some courses needed to be repurposed, some created, some were deemed redundant. This overarching consideration necessitated that some program-level changes be made to ensure that the overall number of credits in the degrees remain the same.
Course reviewer comments	**augustinepark (10/01/24 8:40 am):** Rollback: Per Mitchell's email

Key: 6016

Preview Bridge

Course Change Request

A deleted record cannot be edited

<div align="center">

Course Delete Proposal

</div>

Date Submitted: 10/01/24 12:38 pm

Viewing: **MUSI 4801 : Practicum in Music**

Last approved: 01/15/19 3:09 am

Last edit: 10/29/24 4:04 pm

Changes proposed by: kristinguth

Programs referencing this course	ELECTIVES - Music Course Categories (UG) Certificate in Carillon Studies

In Workflow

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

Approval Path

1. 08/21/24 1:13 pm Mitchell Frank (mitchellfrank): Approved for ARTC ChairDir UG
2. 10/01/24 8:41 am Augustine Park (augustinepark): Rollback to Initiator
3. 10/01/24 9:27 pm Mitchell Frank (mitchellfrank): Approved for ARTC ChairDir UG
4. 10/30/24 11:08 am Sarah Mohammed (sarahmohammed): Approved for AS FCC
5. 11/21/24 9:33 am Sarah Mohammed (sarahmohammed): Approved for AS FBoard

History

1. Jun 23, 2017 by Anshul Singh (anshulsingh)
2. Jan 15, 2019 by Mike Labreque (mikelabreque)

Effective Date	2025-26
Workflow	majormod ~~minormod~~
Level	Undergraduate
Course Code	MUSI
Course Number	4801
Title	Practicum in Music
Title (short)	Practicum in Music
Faculty	Faculty of Arts and Social Sciences
Academic Unit	School for Studies in Art and Culture
Credit Value	0.50
Special/Selected Topics	Not Applicable
Significant Experiential Learning	Practica or Placements (including Clinical Placements)
Course Description	Practical experience in music-specific projects such as recording studios, librarianship, research, multimedia, etc. at local institutions. Placements are planned with the Practica Supervisor and a proposal is required. A maximum of one credit of practicum may be offered in fulfilment of Music requirements.

Prerequisite(s)	BMus or BA ~~Honours~~ Music Honours students ~~registration~~ with third or ~~third- or~~ fourth-year standing and minimum 9.0 CGPA. ~~a B + or better average in Music courses; and permission of the Practica Supervisor.~~
Class Format	
Precluded Courses	
Also listed as	
Piggybacked Courses	
Grade Mode	Standard Letter Grade
Schedule Type	*Practicum *May constitute a major modification under Carleton's IQAP. Please consult https://carleton.ca/viceprovost/major-minor-modifications/ for more details.
Unpaid Placement	Yes
Summary	Course deletion.
Rationale for deactivation	• MUSI 4800 and MUSI 4801 are 0.5-credit practica courses • Music students are allowed to take up to 1.0 credit in practica • We would like to delete MUSI 4801 and make MUSI 4800 a repeatable (up to 1.0 credit) course. MUSI 4800 already includes in the description: " A maximum of one credit of practicum may be offered in fulfilment of Music requirements." Duplicate courses flagged by FCC (MUSI 4800 and MUSI 4801).
Course reviewer comments	**augustinepark (10/01/24 8:41 am):** Rollback: Per Mitchell's email

Key: 6017

Preview Bridge

Course Change Request

Date Submitted: 08/15/24 6:00 pm

Viewing: **MUSI 4908 : Honours Essay in Musicology**

Last approved: 01/15/19 3:12 am

Last edit: 01/13/25 2:55 pm

Changes proposed by: kristinguth

Calendar Pages referencing this course	Music Music (MUSI)
Programs referencing this course	ELECTIVES - Music Course Categories (UG)

In Workflow

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

Approval Path

1. 08/21/24 1:14 pm
   Mitchell Frank
   (mitchellfrank):
   Approved for ARTC
   ChairDir UG
2. 09/25/24 11:05 am
   Sarah Mohammed
   (sarahmohammed):
   Approved for AS FCC
3. 12/06/24 2:18 pm
   Augustine Park
   (augustinepark):
   Approved for AS FBoard

History

1. Jan 15, 2019 by Mike
   Labreque (mikelabreque)

Effective Date	2025-26
Workflow	majormod ~~minormod~~
Level	Undergraduate
Course Code	MUSI
Course Number	4908
Title	Honours Essay in Musicology
Title (short)	Honours Essay in Musicology
Faculty	Faculty of Arts and Social Sciences
Academic Unit	School for Studies in Art and Culture
Credit Value	1.0
Special/Selected Topics	Not Applicable
Significant Experiential Learning	Applied Research Project
Course Description	An Honours research essay of approximately 50 pages. Course content is planned with a Faculty Supervisor, and instruction is one-on-one. ~~A written outline of the project must be submitted to the Honours committee changes by the first day of classes.~~
Prerequisite(s)	Fourth-year ~~fourth-year~~ standing, minimum 10.0 CGPA, proposal, ~~A- or higher average,~~ and permission of the Program. ~~Discipline.~~
Class Format	
Precluded Courses	
Also listed as	
Piggybacked Courses	
Grade Mode	Standard Letter Grade
Schedule Type	*Honours Essay

*May constitute a major modification under Carleton's IQAP. Please consult <u>https://carleton.ca/viceprovost/major-minor-modifications/</u> for more details.

Unpaid Placement	No
Summary	Edited description and prerequisite.
Rationale for change	All changes to individual courses (including the cancellation of some, revisions to others, and the creation of new courses) are motivated by an overarching concern for equity—we want to ensure that all Music students are exposed equally to all areas of our program in the first two years before they specialize in specific areas at the 3000 and 4000 level. To that end, we are introducing a new 1.0 required first-year course that will introduce students to all facets of musicology, namely Western musicology, popular musicology, ethnomusicology, and jazz. At the second-year level, we are introducing new required courses in ethnomusicology; popular musicology; historical Western musicology; and Canadian musicology. To move to this new equity-driven program structure, some courses needed to be repurposed, some created, some were deemed redundant. This overarching consideration necessitated that some program-level changes be made to ensure that the overall number of credits in the degrees remain the same.
Course reviewer comments	

Key: 6025

<u>Preview Bridge</u>

Unpaid Placement	No
Summary	Edited description and prerequisite.
	All changes to individual courses (including the cancellation of some, revisions to others, and the creation of new courses) are motivated by an overarching concern for equity—we want to ensure that all Music students are exposed equally to all areas of our program in the first two years before they specialize in specific areas at the 3000 and 4000 level. To that end, we are introducing a new 1.0 required first-year course that will introduce students to all facets of musicology, namely Western musicology, popular musicology, ethnomusicology, and jazz. At the second-year level, we are introducing new required courses in ethnomusicology; popular musicology; historical Western musicology; and Canadian musicology.

Program Change Request

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 11/26/24 10:43 am

Viewing: **BENG-952A : Architectural Conservation and Sustainability Engineering Stream A: Structural**

Last approved: 05/12/22 10:01 am

Last edit: 11/26/24 10:43 am

Last modified by: shawnkenny

Changes proposed by: shawnkenny

In Workflow

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

Approval Path

1. 11/28/24 10:16 am Yasser Hassan (yasserhassan): Approved for CIVE ChairDir UG
2. 11/28/24 10:19 am Samuel Ajila (samuelajila): Approved for ENG Dean
3. 01/22/25 9:29 am Samuel Ajila (samuelajila): Approved for ENG FCC
4. 01/22/25 9:35 am Samuel Ajila (samuelajila): Approved for ENG FBoard

History

1. Apr 25, 2014 by sandra
2. Apr 30, 2014 by sandra
3. Jun 23, 2014 by sandra
4. Mar 4, 2015 by sandra
5. Mar 20, 2015 by sandra
6. Mar 23, 2015 by sandra
7. Mar 23, 2015 by sandra
8. Jan 5, 2016 by Neal Holtz (nealholtz)
9. Jan 13, 2017 by Neal Holtz (nealholtz)
10. Apr 11, 2018 by Donald Russell (donaldrussell)
11. May 2, 2019 by Mike Labreque (mikelabreque)
12. Feb 16, 2021 by Sarah Cleary (sarahcleary)
13. May 12, 2022 by Natalie Phelan (nataliephelan)

Calendar Pages Using this Program	Engineering
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	BENG-952A
Level	Undergraduate
Faculty	Faculty of Engineering and Design
Academic Unit	Department of Civil and Environmental Engineering
Degree	Bachelor of Engineering
Title	Architectural Conservation and Sustainability Engineering Stream A: Structural

Program Requirements

Architectural Conservation and Sustainability Engineering - Bachelor of Engineering
Stream A: Structural (22.0 credits)

First year
1. 5.5 credits in: 5.5
    ARCH 1000 [0.5]   Introduction to Architecture
    CHEM 1001 [0.5]   General Chemistry I
    CHEM 1002 [0.5]   General Chemistry II
    ECOR 1010 [0.5]   Introduction to Engineering
    ECOR 1101 [0.5]   Mechanics I
    ECOR 1606 [0.5]   Problem Solving and Computers
    ENVE 1001 [0.5]   Architecture and the Environment
    MATH 1004 [0.5]   Calculus for Engineering or Physics
    MATH 1005 [0.5]   Differential Equations and Infinite Series for Engineering or Physics
    MATH 1104 [0.5]   Linear Algebra for Engineering or Science
    PHYS 1004 [0.5]   Introductory Electromagnetism and Wave Motion

Second year
2. 5.5 credits in: 5.5
    ARCC 2202 [0.5]   Architectural Technology 1
    CCDP 2100 [0.5]   Communication Skills for Engineering Students
    CDNS 2400 [0.5]   Heritage Places and Practices in Canada
    CIVE 2004 [0.5]   GIS, Surveying, CAD and BIM
    CIVE 2200 [0.5]   Mechanics of Solids I
    CIVE 2700 [0.5]   Civil Engineering Materials
    ECOR 2606 [0.5]   Numerical Methods
    ENVE 2001 [0.5]   Process Analysis for Environmental Engineering
    MAAE 2300 [0.5]   Fluid Mechanics I
    MAAE 2400 [0.5]   Thermodynamics and Heat Transfer
    MATH 2004 [0.5]   Multivariable Calculus for Engineering or Physics

Third year
3. 5.5 credits in: 5.5
    ARCC 2203 [0.5]   Architectural Technology 3
    ARCC 3202 [0.5]   Architectural Technology 4
    CIVE 3202 [0.5]   Mechanics of Solids II
    CIVE 3203 [0.5]   Introduction to Structural Analysis
    CIVE 3204 [0.5]   Introduction to Structural Design
    CIVE 3205 [0.5]   Design of Structural Steel Components
    CIVE 3206 [0.5]   Design of Reinforced Concrete Components
    CIVE 3207 [0.5]   Historic Site Recording and Assessment
    CIVE 3209 [0.5]   Building Science
    ECOR 2050 [0.5]   Design and Analysis of Engineering Experiments
    ECOR 3800 [0.5]   Engineering Economics

Fourth year
4. 4.0 credits in: 4.0
    ARCH 4200 [0.5]   Architectural Conservation Philosophy and Ethics
    CIVE 4202 [0.5]   Wood Engineering
    CIVE 4601 [0.5]   Building Pathology and Rehabilitation
    CIVE 4918 [1.0]   Design Project
    ECOR 4995 [0.5]   Professional Practice
    ENVE 4105 [0.5]   Green Building Design
    ENVE 4106 [0.5]   Indoor Environmental Quality
5. 1.5 credits from: 1.5
    CIVE 4200 [0.5]   Matrix Analysis of Framed Structures
    CIVE 4201 [0.5]   Finite Element Methods in Civil Engineering
    CIVE 4302 [0.5]   Reinforced and Prestressed Concrete Design
    CIVE 4303 [0.5]   Urban Systems
    CIVE 4308 [0.5]   Behaviour and Design of Steel Structures
    CIVE 4400 [0.5]   Construction/Project Management
    CIVE 4403 [0.5]   Masonry Design
    CIVE 4500 [0.5]   Computer Methods in Civil Engineering
    CIVE 4614 [0.5]   Building Fire Safety
    CIVE 4917 [0.5]   Undergraduate Directed Study
    ENVE 4003 [0.5]   Air Pollution and Emissions Control
    MECH 4407 [0.5]   Heating and Air Conditioning
    SREE 4002 [0.5]   Modelling and Analysis of Energy Systems: Risk, Reliability, and Economics
(See Note 2, below)
Total Credits   22.0

Notes:

1. For **Item 1** and students transferring into Architectural Conservation and Sustainability Engineering (Structural or Environmental Stream), students in good academic standing and who have successfully completed CHEM 1101 while registered in another engineering program may replace CHEM 1001 and CHEM 1002 with CHEM 1101 plus one 0.5 credit course from the Basic Science Electives list.
2. For Item 5 in the Structural Stream, CIVE 4907 may replace 1.0 credit.

New Resources

Summary	The program has been replaced by ACSE Combined Stream BENG-952C.
Rationale for change	The program was revised to improve program delivery and meet student needs.
Transition/Implementation	All course requirements for students enrolled in the old program are available.

Program reviewer comments

Key: 831

Program Change Request

A deleted record cannot be edited

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Program Delete Proposal

</div>

Date Submitted: 11/26/24 10:45 am

Viewing: **BENG-952B : Architectural Conservation and Sustainability Engineering Stream B: Environmental**

Last approved: 05/12/22 10:02 am

Last edit: 11/26/24 10:45 am

Last modified by: shawnkenny

Changes proposed by: shawnkenny

In Workflow

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

Approval Path

1. 11/28/24 10:16 am Yasser Hassan (yasserhassan): Approved for CIVE ChairDir UG
2. 11/28/24 10:19 am Samuel Ajila (samuelajila): Approved for ENG Dean
3. 01/22/25 9:29 am Samuel Ajila (samuelajila): Approved for ENG FCC
4. 01/22/25 9:35 am Samuel Ajila (samuelajila): Approved for ENG FBoard

History

1. Apr 25, 2014 by sandra
2. Jun 23, 2014 by sandra
3. Mar 4, 2015 by sandra
4. Mar 20, 2015 by sandra
5. Mar 23, 2015 by sandra
6. Jan 5, 2016 by Neal Holtz (nealholtz)
7. Jan 13, 2017 by Neal Holtz (nealholtz)
8. Jan 11, 2018 by Heng Khoo (hengkhoo)
9. Apr 11, 2018 by Donald Russell (donaldrussell)
10. May 2, 2019 by Mike Labreque (mikelabreque)
11. Feb 16, 2021 by Sarah Cleary (sarahcleary)
12. May 12, 2022 by Natalie Phelan (nataliephelan)

Calendar Pages Using this Program	Engineering
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	BENG-952B
Level	Undergraduate
Faculty	Faculty of Engineering and Design
Academic Unit	Department of Civil and Environmental Engineering
Degree	Bachelor of Engineering
Title	Architectural Conservation and Sustainability Engineering Stream B: Environmental

Program Requirements

Architectural Conservation and Sustainability Engineering - Bachelor of Engineering
Stream B: Environmental (22.0 credits)

First year
1. 5.5 credits in: 5.5

ARCH 1000 [0.5]	Introduction to Architecture	
CHEM 1001 [0.5]	General Chemistry I	
CHEM 1002 [0.5]	General Chemistry II	
ECOR 1010 [0.5]	Introduction to Engineering	
ECOR 1101 [0.5]	Mechanics I	
ECOR 1606 [0.5]	Problem Solving and Computers	
ENVE 1001 [0.5]	Architecture and the Environment	
MATH 1004 [0.5]	Calculus for Engineering or Physics	
MATH 1005 [0.5]	Differential Equations and Infinite Series for Engineering or Physics	
MATH 1104 [0.5]	Linear Algebra for Engineering or Science	
PHYS 1004 [0.5]	Introductory Electromagnetism and Wave Motion	

Second year
2. 5.5 credits in: 5.5

ARCC 2202 [0.5]	Architectural Technology 1	
CCDP 2100 [0.5]	Communication Skills for Engineering Students	
CDNS 2400 [0.5]	Heritage Places and Practices in Canada	
CIVE 2004 [0.5]	GIS, Surveying, CAD and BIM	
CIVE 2200 [0.5]	Mechanics of Solids I	
CIVE 2700 [0.5]	Civil Engineering Materials	
ECOR 2606 [0.5]	Numerical Methods	
ENVE 2001 [0.5]	Process Analysis for Environmental Engineering	
MAAE 2300 [0.5]	Fluid Mechanics I	
MAAE 2400 [0.5]	Thermodynamics and Heat Transfer	
MATH 2004 [0.5]	Multivariable Calculus for Engineering or Physics	

Third year
3. 5.5 credits in: 5.5

ARCC 2203 [0.5]	Architectural Technology 3	
ARCC 3202 [0.5]	Architectural Technology 4	
CIVE 3204 [0.5]	Introduction to Structural Design	
CIVE 3207 [0.5]	Historic Site Recording and Assessment	
CIVE 3209 [0.5]	Building Science	
CIVE 4307 [0.5]	Municipal Hydraulics	
ECOR 2050 [0.5]	Design and Analysis of Engineering Experiments	
ECOR 3800 [0.5]	Engineering Economics	
ENVE 3001 [0.5]	Water Treatment Principles and Design	
ENVE 3002 [0.5]	Environmental Engineering Systems Modeling	
ENVE 3004 [0.5]	Contaminant and Pollutant Transport in the Environment	

Fourth year
4. 5.0 credits in: 5.0

ARCH 4200 [0.5]	Architectural Conservation Philosophy and Ethics	
CIVE 4601 [0.5]	Building Pathology and Rehabilitation	
ECOR 4995 [0.5]	Professional Practice	
ENVE 4005 [0.5]	Wastewater Treatment Principles and Design	
ENVE 4101 [0.5]	Waste Management	
ENVE 4104 [0.5]	Environmental Planning and Impact Assessment	
ENVE 4105 [0.5]	Green Building Design	
ENVE 4106 [0.5]	Indoor Environmental Quality	
ENVE 4918 [1.0]	Design Project	

5. 0.5 credit from: 0.5

CIVE 4201 [0.5]	Finite Element Methods in Civil Engineering	
CIVE 4303 [0.5]	Urban Systems	
CIVE 4400 [0.5]	Construction/Project Management	
CIVE 4500 [0.5]	Computer Methods in Civil Engineering	
ENVE 3003 [0.5]	Water Resources Engineering	
ENVE 4003 [0.5]	Air Pollution and Emissions Control	
ENVE 4917 [0.5]	Undergraduate Directed Study	
MECH 4401 [0.5]	Power Plant Analysis	
MECH 4403 [0.5]	Power Generation Systems	
MECH 4406 [0.5]	Heat Transfer	
MECH 4407 [0.5]	Heating and Air Conditioning	
SREE 4002 [0.5]	Modelling and Analysis of Energy Systems: Risk, Reliability, and Economics	

Total Credits   22.0

Notes:

1. For **Item 1** and students transferring into Architectural Conservation and Sustainability Engineering (Structural or Environmental Stream), students in good academic standing and who have successfully completed CHEM 1101 while registered in another engineering program may replace CHEM 1001 and CHEM 1002 with CHEM 1101 plus one 0.5 credit course from the Basic Science Electives list.

New Resources

Summary	The program has been replaced by ACSE Combined Stream BENG-952C.
Rationale for change	The program was revised to improve program delivery and meet student needs.
Transition/Implementation	All course requirements for students enrolled in the old program are available.

Program reviewer comments

Key: 832

Program Change Request

A deleted record cannot be edited

Program Delete Proposal

Date Submitted: 11/18/24 1:28 pm

Viewing: TBD-1397 : Graduate Diploma in Economic Policy

Last approved: 05/23/22 5:28 pm

Last edit: 11/18/24 1:28 pm

Last modified by: reneelortie

Changes proposed by: reneelortie

In Workflow

1. **ECON ChairDir GR**
2. **PA Dean**
3. **PA GFCC**
4. **PA FBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. CalEditor

Approval Path

1. 11/18/24 1:53 pm
   Christopher Worswick
   (christopherworswick):
   Approved for ECON
   ChairDir GR
2. 11/21/24 9:49 am
   Vandna Bhatia
   (vandnabhatia):
   Approved for PA Dean
3. 12/10/24 3:19 pm
   Vandna Bhatia
   (vandnabhatia):
   Approved for PA GFCC
4. 01/13/25 5:06 pm
   Vandna Bhatia
   (vandnabhatia):
   Approved for PA FBoard

History

1. Feb 4, 2021 by Sandra
   Bauer (sandrabauer)
2. Feb 4, 2021 by Sarah
   Cleary (sarahcleary)
3. Jan 13, 2022 by Natalie
   Phelan (nataliephelan)
4. Mar 11, 2022 by Sandra
   Bauer (sandrabauer)
5. May 23, 2022 by Sandra
   Bauer (sandrabauer)

Calendar Pages Using this Program	Economics
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	TBD-1397
Level	Graduate
Faculty	Faculty of Public Affairs
Academic Unit	Department of Economics
Degree	Graduate Diploma
Title	Graduate Diploma in Economic Policy

Program Requirements

Graduate Diploma in Economic Policy (2.0 credits)

Requirements:

1. **0.5 credit in:**   0.5
   ECON 5060 [0.5]   Economic Analysis of Public Policy
2. **1.5 credits from:**   1.5

ECON 5061 [0.5]	Central Banking: Monetary Policy Framework and Challenges
ECON 5062 [0.5]	Fiscal Policy in Canada: Practice and Challenges
ECON 5063 [0.5]	Innovation Policy and Economic Growth
ECON 5064 [0.5]	Economic Policy Formulation and Evaluation
ECON 5065 [0.5]	Selected Topics in Economic Policy

up to 0.5 credit related to economic policy offered outside the Department of Economics may be taken, with approval of the GDip Supervisor.

| Total Credits | 2.0 |

New Resources

Summary	Deactivation of the Graduate Diploma in Economic Policy.
Rationale for change	In spite of our efforts to market it, we have not had many applicants with the necessary mathematical training. Consequently, it is difficult to justify the costs associated with running the program, especially given the current financial challenges that the university faces.
Transition/Implementation	Impact on current students has been evaluated and all students currently enrolled in the GDip will be able to complete their program by Fall 2025.

Program reviewer
comments

Key: 1397

Program Change Request

A deleted record cannot be edited

<div align="center">

Program Delete Proposal

</div>

Date Submitted: 11/18/24 1:33 pm

Viewing: **TBD-2079 : R-GR-ADMREQT-Economic Policy Graduate Diploma**

Last approved: 02/04/21 3:22 pm

Last edit: 11/18/24 1:33 pm

Last modified by: nataliephelan

Changes proposed by: nataliephelan

In Workflow

1. **ECON ChairDir GR**
2. **PA Dean**
3. **PA GFCC**
4. **PA FBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. CalEditor

Approval Path

1. 11/18/24 1:53 pm Christopher Worswick (christopherworswick): Approved for ECON ChairDir GR
2. 11/21/24 9:49 am Vandna Bhatia (vandnabhatia): Approved for PA Dean
3. 12/10/24 3:19 pm Vandna Bhatia (vandnabhatia): Approved for PA GFCC
4. 01/13/25 5:09 pm Vandna Bhatia (vandnabhatia): Approved for PA FBoard

History

1. Feb 4, 2021 by Sarah Cleary (sarahcleary)

Calendar Pages Using this Program	Economics
Effective Date	2025-26
Workflow	majormod
Program Code	TBD-2079
Level	Graduate
Faculty	Faculty of Public Affairs
Academic Unit	Department of Economics
Degree	
Title	R-GR-ADMREQT-Economic Policy Graduate Diploma

Program Requirements

Admission

The minimum requirement for admission to the Graduate Diploma program is an undergraduate degree with a GPA of 9.0 (out of 12) or higher, preferably with honours, successfully completed university-level introductory (micro- and macro-) economics, calculus, and linear algebra with a grade of C+ or higher in each, and permission of the Department of Economics. The normal requirement for admission is that the undergraduate degree be in economics or equivalent.

New Resources	
Summary	*Assoc with TBD-1397* Delete Economics GDIP admission regulation.
Rationale for change	Collateral to deletion of GDIP-ECON.
Transition/Implementation	

Program reviewer
comments

Program Change Request

Date Submitted: 10/01/24 9:38 am

Viewing: **MARCH : M. Architecture 2-year and 3-year streams**

Last approved: 01/12/24 3:39 pm

Last edit: 10/01/24 9:38 am

Last modified by: hollykleinswormink

Changes proposed by: hollykleinswormink

In Workflow

1. **ARCH ChairDir GR**
2. **ENG Dean**
3. **ENG GFCC**
4. **ARCH FBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. CalEditor

Approval Path

1. 09/30/24 4:41 pm
   Anne Bordeleau
   (AnneBordeleau):
   Rollback to Initiator
2. 10/01/24 11:24 am
   Anne Bordeleau
   (AnneBordeleau):
   Approved for ARCH
   ChairDir GR
3. 10/28/24 3:25 pm
   Richard Dansereau
   (richarddansereau):
   Approved for ENG Dean
4. 11/04/24 3:33 pm
   Richard Dansereau
   (richarddansereau):
   Approved for ENG GFCC
5. 11/27/24 1:01 pm
   Johan Voordouw
   (johanvoordouw):
   Approved for ARCH
   FBoard

History

1. May 28, 2014 by sandra
2. May 28, 2014 by sandra
3. Mar 5, 2015 by
   wendyblack
4. Apr 28, 2017 by Sandra
   Bauer (sandrabauer)
5. Apr 28, 2017 by Sandra
   Bauer (sandrabauer)
6. May 8, 2017 by Sandra
   Bauer (sandrabauer)
7. Dec 13, 2017 by Claire
   Ryan (claireryan)
8. Mar 21, 2019 by Claire
   Ryan (claireryan)
9. Feb 17, 2021 by Claire
   Ryan (claireryan)
10. Jan 20, 2023 by Holly
    Klein-Swormink
    (hollykleinswormink)
11. Feb 13, 2023 by Sandra
    Bauer (sandrabauer)
12. Mar 27, 2023 by Sandra
    Bauer (sandrabauer)
13. May 10, 2023 by Natalie
    Phelan (nataliephelan)
14. Jan 8, 2024 by Sandra
    Bauer (sandrabauer)
15. Jan 12, 2024 by Sandra
    Bauer (sandrabauer)
16. Jan 12, 2024 by Sandra
    Bauer (sandrabauer)

Calendar Pages Using this Program	Architecture
Effective Date	2025-26
Workflow	majormod ~~minormod~~

Program Code	MARCH
Level	Graduate
Faculty	Faculty of Engineering and Design
Academic Unit	Azrieli School of Architecture and Urbanism
Degree	Master of Arts
Title	M. Architecture 2-year and 3-year streams

Program Requirements

~~M.Architecture 2-year Stream (8.0 credits) Note: consult the School regarding registrationsequence.~~ M. Architecture 2-year ~~3-year~~ Stream (8.0 credits) ~~(15.0 credits)~~

Note: Please consult the School regarding registration sequence.

Requirements:

1. 2.5 credits in core:		2.5
ARCH 5224 [0.0]	Advanced Building Systems	
ARCH 5333 [0.0]	Selected Topics in Architectural Theory	
ARCH 5444 [0.0]	Comprehensive Studio Workshop	
ARCH 5551 [0.0]	Professional Practice	
ARCH 5552 [0.0]	Design Thesis Preparation	
2. 2.0 credits in studio:		2.0
ARCH 5114 [0.0]	Comprehensive Studio: Climate + Integration	
ARCH 5115 [0.0]	Graduate Studio Abroad: Agency + Justice	
3. 2.0 credits in:		2.0
~~ARCC 5100 [0.5]~~	~~Advanced Building Systems~~	
~~ARCC 5200 [0.5]~~	~~Professional Practice~~	
~~ARCH 5200 [0.5]~~	~~Graduate Seminar 1: Introduction to Critical Thought in Architecture~~	
~~ARCH 5201 [0.5]~~	~~Graduate Seminar 2: Contemporary Theoretical Perspectives in Architecture~~	
~~2. 1.0 credit in~~ ~~free electives at the 4000 level or higher~~		~~1.0~~
~~3. 3.0 credits in studio:~~		~~3.0~~
~~ARCS 5105 [1.5]~~	~~Graduate Studio 1~~	
~~ARCS 5106 [1.5]~~	~~Graduate Studio 2~~	
~~4. 2.0 credits in:~~		~~2.0~~
~~ARCN 5909 [2.0]~~	~~Thesis - Directed Research Studio (DRS) (must be defended at an oral examination)~~	
ARCH 5555 [0.0]	Architecture Thesis	
4. 1.5 credits in free electives at the 4000-level or higher		1.5
Total Credits		8.0

M. Architecture 3-year ~~M.Architecture 2-year~~ Stream (15.0 credits) ~~(8.0 credits)~~

Note: Please consult the School regarding registration sequence.

Requirements:

~~1. 5.5 credits in core:~~		~~5.5~~
~~ARCC 5096 [0.5]~~	~~Building Technology I~~	
~~ARCC 5097 [0.5]~~	~~Building Technology II~~	
~~ARCC 5098 [0.5]~~	~~Building Technology III~~	
~~ARCC 5099 [0.5]~~	~~Building Technology IV~~	
~~ARCC 5100 [0.5]~~	~~Advanced Building Systems~~	
~~ARCC 5200 [0.5]~~	~~Professional Practice~~	
~~ARCH 5010 [0.5]~~	~~History and Theory of Modern Architecture~~	
~~ARCH 5020 [0.5]~~	~~Theories of Modernity~~	
~~ARCH 5200 [0.5]~~	~~Graduate Seminar 1: Introduction to Critical Thought in Architecture~~	
~~ARCH 5201 [0.5]~~	~~Graduate Seminar 2: Contemporary Theoretical Perspectives in Architecture~~	
~~ARCN 5005 [0.5]~~	~~Theory and Practice of Architectural Representation~~	
~~2. 0.5 credit in~~ ~~approved elective at the 5000-level or higher, approved by the Associate Director (Graduate Programs)~~		~~0.5~~
~~3. 7.0 credits in~~ ~~studio:~~		~~7.0~~
~~ARCS 5030 [1.5]~~	~~M.Arch 1 - Studio 1~~	
~~ARCS 5032 [1.5]~~	~~M.Arch. 1 - Studio II~~	
~~ARCS 5033 [1.0]~~	~~M.Arch. 1 - Studio III~~	
~~ARCS 5105 [1.5]~~	~~Graduate Studio 1~~	
~~ARCS 5106 [1.5]~~	~~Graduate Studio 2~~	
1. 6.0 credits in core:		6.0
ARCH 5221 [0.0]	Ecological & Regulatory Systems	
ARCH 5222 [0.0]	Structures	
ARCH 5223 [0.0]	Assemblies and Environmental Systems	

ARCH 5224 [0.0]	Advanced Building Systems	
ARCH 5331 [0.0]	Modernism and Global Urbanism	
ARCH 5332 [0.0]	Contemporary Theories in Architecture	
ARCH 5333 [0.0]	Selected Topics in Architectural Theory	
ARCH 5441 [0.0]	Studio 1: Workshop	
ARCH 5444 [0.0]	Comprehensive Studio Workshop	
ARCH 5551 [0.0]	Professional Practice	
ARCH 5552 [0.0]	Design Thesis Preparation	
2. 5.0 credits in studio:		5.0
ARCH 5111 [0.0]	Studio I: Land & Environment	
ARCH 5112 [0.0]	Studio II: Materiality + Adaptation	
ARCH 5113 [0.0]	Studio III: Urbanism + Society	
ARCH 5114 [0.0]	Comprehensive Studio: Climate + Integration	
ARCH 5115 [0.0]	Graduate Studio Abroad: Agency + Justice	
3. 2.0 credits in:		2.0
ARCN 5909 [2.0]	Thesis - Directed Research Studio (DRS) (must be defended at an oral examination)	
ARCH 5555 [0.0]	Architecture Thesis	
4. 2.0 credits in free electives at the 4000-level or higher		2.0
Total Credits		15.0

New Resources	No New Resources
Summary	1. Clarify the curricular sequence; 2. Alignment with BAS degree with piggy-backed courses for consistency and for effective use of resources; 3. Update course titles and calendar descriptions to better define learning outcomes and accreditation requirements to be addressed in each course; 4. Transition to 1.0 CR for all studios, and adding a 0.5 credit workshop to support additional experiential learning in the two Fall studios. 5. Ensuring that students have additional electives to better support opportunities to participate in the Climate Change specialization.
Rationale for change	The proposed modification supports the Azrieli School of Architecture & Urbanism's (ASAU) commitment to reorient its curricula around contemporary and urgent issues in society broadly as well as in the design disciplines. Taking cues from the University's Strategic Plan and Kinàmàgawin report, but also responding to the climate emergency and the new student performance criteria (SPC) being drafted by the Canadian Architectural Certification Board (CACB), the curricular changes reorient our teaching and courses more intentionally around land and climate, foregrounding climate, our occupation of Indigenous lands, and the subservience of our discipline to the broader public and urban realms, as well as to existing buildings and environments, as important grounds upon which we teach and learn about our responsibilities and skills as designers and architects. As such, the modification enabled us to strengthen our programs, their desirability for prospective students, the clarity of their pedagogical arcs and teaching framework, and their learning outcome to better serve both the profession and the ASAU's profile as a leading School of architectural education. At the same time, the modifications address issues of equity in relation to faculty teaching load. Specifically, the modification provided opportunities to address Architecture-specific teaching load considerations, and to develop a more equitable approach and a better pedagogical model to the distribution of studio course credit load, hours and schedule, a model that will benefit student learning, equitable teaching assignments, but also research engagement, by creating more opportunities for better alignment between faculty research and course format and content. The curriculum review also provided an opportunity to do some 'housekeeping', addressing ongoing issues with the present programs (e.g. course codes misalignment, course duplications so that it could be offered to two different cohorts, or inadequate representation of content taught by course titles and calendar descriptions). Therefore, the proposed modification eliminates course redundancies and includes many updated titles, course descriptions and codes as needed.
Transition/Implementation	The new curriculum is to begin in the Fall 2025, both for the three-year M.Arch and two-year M.Arch.
Program reviewer comments	**AnneBordeleau (09/30/24 4:41 pm):** Rollback: Missing one course / remove 0.5 elective on the two-year

Key: 864

Program Change Request

New Program Proposal

Date Submitted: 10/01/24 9:33 am

Viewing: TBD-2288 : 2-YR M.Arch with Collaborative Specialization in Accessibility

Last edit: 11/29/24 2:30 pm

Last modified by: robyngreen

Changes proposed by: hollykleinswormink

Effective Date	2025-26
Workflow	majormod
Program Code	TBD-2288
Level	Graduate
Faculty	Faculty of Engineering and Design
Academic Unit	Azrieli School of Architecture and Urbanism Accessibility
Degree	Master of Architecture
Title	2-YR M.Arch with Collaborative Specialization in Accessibility

Program Requirements

M. Architecture 2-year stream with Collaborative Specialization in Accessibility (8.0 credits)

Note: Please consult the School regarding registration assistance

Requirements:

1. 1.0 credits in: 1.0
   - ACCS 5001 [0.5]   Critical Disability Studies
   - ACCS 5002 [0.5]   Accessibility and Inclusive Design Seminar
2. 2.5 credits in core: 2.5
   - ARCH 5224 [0.0]   Advanced Building Systems
   - ARCH 5333 [0.0]   Selected Topics in Architectural Theory
   - ARCH 5444 [0.0]   Comprehensive Studio Workshop
   - ARCH 5551 [0.0]   Professional Practice
   - ARCH 5552 [0.0]   Design Thesis Preparation
3. 2.0 credits in studio: 2.0
   - ARCH 5114 [0.0]   Comprehensive Studio: Climate + Integration
   - ARCH 5115 [0.0]   Graduate Studio Abroad: Agency + Justice

4. 2.0 credits in: 2.0

   ARCH 5555 [0.0]   Architecture Thesis (in the Specialization)

5. 0.5 credits in free electives at the 4000-level or higher   0.5

Total credits   8.0

New Resources	No New Resources
Summary	1. Clarify the curricular sequence; 2. Alignment with BAS degree with piggy-backed courses for consistency and for effective use of resources; 3. Update course titles and calendar descriptions to better define learning outcomes and accreditation requirements to be addressed in each course; 4. Transition to 1.0 CR for all studios, and adding a 0.5 credit workshop to support additional experiential learning in the two Fall studios. 5. Ensuring that students have additional electives to better support opportunities to participate in the Collaborative Specialization in Accessibility.
Rationale	The proposed modification supports the Azrieli School of Architecture & Urbanism's (ASAU) commitment to reorient its curricula around contemporary and urgent issues in society broadly as well as in the design disciplines. Taking cues from the University's Strategic Plan and Kinàmàgawin report, but also responding to the climate emergency and the new student performance criteria (SPC) being drafted by the Canadian Architectural Certification Board (CACB), the curricular changes reorient our teaching and courses more intentionally around land and climate, foregrounding climate, our occupation of Indigenous lands, and the subservience of our discipline to the broader public and urban realms, as well as to existing buildings and environments, as important grounds upon which we teach and learn about our responsibilities and skills as designers and architects. As such, the modification enabled us to strengthen our programs, their desirability for prospective students, the clarity of their pedagogical arcs and teaching framework, and their learning outcome to better serve both the profession and the ASAU's profile as a leading School of architectural education. At the same time, the modifications address issues of equity in relation to faculty teaching load. Specifically, the modification provided opportunities to address Architecture-specific teaching load considerations, and to develop a more equitable approach and a better pedagogical model to the distribution of studio course credit load, hours and schedule, a model that will benefit student learning, equitable teaching assignments, but also research engagement, by creating more opportunities for better alignment between faculty research and course format and content. The School of Architecture has faculty that can supervise theses and research projects in this field of instruction. The curriculum review also provided an opportunity to do some 'housekeeping', addressing ongoing issues with the present programs (e.g. course codes misalignment, course duplications so that it could be offered to two different cohorts, or inadequate representation of content taught by course titles and calendar descriptions). Therefore, the proposed modification eliminates course redundancies and includes many updated titles, course descriptions and codes as needed.
Transition/Implementation	The new curriculum is to begin in the Fall 2025, both for the three-year M.Arch and two-year M.Arch.

Program reviewer comments	**AnneBordeleau (09/30/24 4:40 pm):** Rollback: Missing one course / remove 0.5 elective **nataliephelan (10/24/24 11:20 am):** Edited item #4 to conform with calendar style.

Key: 2288

Program Change Request

New Program Proposal

Date Submitted: 09/27/24 12:47 pm

Viewing: **TBD-2289 : 3-YR M.Arch with Collaborative Specialization in Accessibility**

Last edit: 11/29/24 2:32 pm

Last modified by: robyngreen

Changes proposed by: hollykleinswormink

Effective Date	2025-26
Workflow	majormod
Program Code	TBD-2289
Level	Graduate
Faculty	Faculty of Engineering and Design
Academic Unit	Azrieli School of Architecture and Urbanism Accessibility
Degree	Master of Architecture
Title	3-YR M.Arch with Collaborative Specialization in Accessibility

Program Requirements

M. Architecture 3-year stream
with Collaborative Specialization in Accessibility (15 credits)

Note: Please consult the School regarding registration sequence.

Requirements:

1. 1.0 credit in:			1.0
	ACCS 5001 [0.5]	Critical Disability Studies	
	ACCS 5002 [0.5]	Accessibility and Inclusive Design Seminar	
3. 6.0 credits in core:			6.0
	ARCH 5221 [0.0]	Ecological & Regulatory Systems	
	ARCH 5222 [0.0]	Structures	
	ARCH 5223 [0.0]	Assemblies and Environmental Systems	
	ARCH 5224 [0.0]	Advanced Building Systems	
	ARCH 5331 [0.0]	Modernism and Global Urbanism	
	ARCH 5332 [0.0]	Contemporary Theories in Architecture	
	ARCH 5333 [0.0]	Selected Topics in Architectural Theory	
	ARCH 5441 [0.0]	Studio 1: Workshop	
	ARCH 5444 [0.0]	Comprehensive Studio Workshop	
	ARCH 5551 [0.0]	Professional Practice	

ARCH 5552 [0.0]	Design Thesis Preparation	
4. 5.0 credits in studio:		5.0
ARCH 5111 [0.0]	Studio I: Land & Environment	
ARCH 5112 [0.0]	Studio II: Materiality + Adaptation	
ARCH 5113 [0.0]	Studio III: Urbanism + Society	
ARCH 5114 [0.0]	Comprehensive Studio: Climate + Integration	
ARCH 5115 [0.0]	Graduate Studio Abroad: Agency + Justice	
5. 2.0 credits in:		2.0
ARCH 5555 [0.0]	Architecture Thesis (in the Specialization)	
6. 1.0 credits in free electives at the 4000-level or higher		1.0
Total Credits		15.0

New Resources	No New Resources
Summary	1. Clarify the curricular sequence; 2. Alignment with BAS degree with piggy-backed courses for consistency and for effective use of resources; 3. Update course titles and calendar descriptions to better define learning outcomes and accreditation requirements to be addressed in each course; 4. Transition to 1.0 CR for all studios, and adding a 0.5 credit workshop to support additional experiential learning in the two Fall studios. 5. Ensuring that students have additional electives to better support opportunities to participate in the Collaborative Specialization in Accessibility.
Rationale	The proposed modification supports the Azrieli School of Architecture & Urbanism's (ASAU) commitment to reorient its curricula around contemporary and urgent issues in society broadly as well as in the design disciplines. Taking cues from the University's Strategic Plan and Kinàmàgawin report, but also responding to the climate emergency and the new student performance criteria (SPC) being drafted by the Canadian Architectural Certification Board (CACB), the curricular changes reorient our teaching and courses more intentionally around land and climate, foregrounding climate, our occupation of Indigenous lands, and the subservience of our discipline to the broader public and urban realms, as well as to existing buildings and environments, as important grounds upon which we teach and learn about our responsibilities and skills as designers and architects. As such, the modification enabled us to strengthen our programs, their desirability for prospective students, the clarity of their pedagogical arcs and teaching framework, and their learning outcome to better serve both the profession and the ASAU's profile as a leading School of architectural education. At the same time, the modifications address issues of equity in relation to faculty teaching load. Specifically, the modification provided opportunities to address Architecture-specific teaching load considerations, and to develop a more equitable approach and a better pedagogical model to the distribution of studio course credit load, hours and schedule, a model that will benefit student learning, equitable teaching assignments, but also research engagement, by creating more opportunities for better alignment between faculty research and course format and content. The School of Architecture has faculty that can supervise theses and research projects in this field of instruction. The curriculum review also provided an opportunity to do some 'housekeeping', addressing ongoing issues with the present programs (e.g. course codes misalignment, course duplications so that it could be offered to two different cohorts, or inadequate representation of content taught by course titles and calendar descriptions). Therefore, the proposed modification eliminates course redundancies and includes many updated titles, course descriptions and codes as needed.
Transition/Implementation	The new curriculum is to begin in the Fall 2025, both for the three-year M.Arch and two-year M.Arch.
Program reviewer comments	**nataliephelan (10/24/24 11:20 am):** Edited item #5 to conform with calendar style. **nataliephelan (11/12/24 1:01 pm):** Changed eff. date to 25-26.

Key: 2289

Program Change Request

Date Submitted: 10/01/24 9:36 am

Viewing: **MARCH-79CH** ~~TBD-2110~~ : 2-YR M.Arch with Collaborative Specialization in Climate Change

Last approved: 01/20/23 4:27 pm

Last edit: 11/29/24 2:34 pm

Last modified by: robyngreen

Changes proposed by: hollykleinswormink

Approval Path

1. 09/30/24 4:41 pm
   Anne Bordeleau
   (AnneBordeleau):
   Rollback to Initiator
2. 10/01/24 11:25 am
   Anne Bordeleau
   (AnneBordeleau):
   Approved for ARCH
   ChairDir GR
3. 10/28/24 3:25 pm
   Richard Dansereau
   (richarddansereau):
   Approved for ENG Dean
4. 11/04/24 3:32 pm
   Richard Dansereau
   (richarddansereau):
   Approved for ENG GFCC

History

1. Jan 31, 2022 by Claire
   Ryan (claireryan)
2. Jan 20, 2023 by Holly
   Klein-Swormink
   (hollykleinswormink)

Calendar Pages Using this Program	Climate Change (Collaborative Program) Architecture
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	MARCH-79CH ~~TBD-2110~~
Level	Graduate
Faculty	Faculty of Engineering and Design
Academic Unit	Azrieli School of Architecture and Urbanism
Degree	Master of Architecture
Title	2-YR M.Arch with Collaborative Specialization in Climate Change

Program Requirements

M. Architecture 2-year stream
with Collaborative Specialization in Climate Change (8.0 credits)

Note: Please consult the School regarding registration sequence.

Requirements:

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. 2.5 credits in core: 2.5
   ARCH 5224 [0.0]   Advanced Building Systems

ARCH 5333 [0.0]	Selected Topics in Architectural Theory	
ARCH 5444 [0.0]	Comprehensive Studio Workshop	
ARCH 5551 [0.0]	Professional Practice	
ARCH 5552 [0.0]	Design Thesis Preparation	
4. 2.0 credits in studio:		2.0
~~ARCC 5100 [0.5]~~	~~Advanced Building Systems~~	
~~ARCC 5200 [0.5]~~	~~Professional Practice~~	
~~ARCH 5200 [0.5]~~	~~Graduate Seminar 1: Introduction to Critical Thought in Architecture~~	
~~ARCH 5201 [0.5]~~	~~Graduate Seminar 2: Contemporary Theoretical Perspectives in Architecture~~	
~~4. 3.0 credits in studio:~~		~~3.0~~
~~ARCS 5105 [1.5]~~	~~Graduate Studio 1~~	
~~ARCS 5106 [1.5]~~	~~Graduate Studio 2~~	
ARCH 5114 [0.0]	Comprehensive Studio: Climate + Integration	
ARCH 5115 [0.0]	Graduate Studio Abroad: Agency + Justice	
5. 2.0 credits in:		2.0
~~ARCN 5909 [2.0]~~	~~Thesis - Directed Research Studio (DRS) (in the area of climate change, must be defended at an oral examination)~~	
ARCH 5555 [0.0]	Architecture Thesis	
Thesis topic must be related to climate change.		
6. 0.5 credits in free electives at the 4000-level or higher		0.5
Total Credits		8.0

New Resources	No New Resources
Summary	1. Clarify the curricular sequence; 2. Alignment with BAS degree with piggy-backed courses for consistency and for effective use of resources; 3. Update course titles and calendar descriptions to better define learning outcomes and accreditation requirements to be addressed in each course; 4. Transition to 1.0 CR for all studios, and adding a 0.5 credit workshop to support additional experiential learning in the two Fall studios. 5. Ensuring that students have additional electives to better support opportunities to participate in the Climate Change specialization.
Rationale for change	The proposed modification supports the Azrieli School of Architecture & Urbanism's (ASAU) commitment to reorient its curricula around contemporary and urgent issues in society broadly as well as in the design disciplines. Taking cues from the University's Strategic Plan and Kinàmàgawin report, but also responding to the climate emergency and the new student performance criteria (SPC) being drafted by the Canadian Architectural Certification Board (CACB), the curricular changes reorient our teaching and courses more intentionally around land and climate, foregrounding climate, our occupation of Indigenous lands, and the subservience of our discipline to the broader public and urban realms, as well as to existing buildings and environments, as important grounds upon which we teach and learn about our responsibilities and skills as designers and architects. As such, the modification enabled us to strengthen our programs, their desirability for prospective students, the clarity of their pedagogical arcs and teaching framework, and their learning outcome to better serve both the profession and the ASAU's profile as a leading School of architectural education. At the same time, the modifications address issues of equity in relation to faculty teaching load. Specifically, the modification provided opportunities to address Architecture-specific teaching load considerations, and to develop a more equitable approach and a better pedagogical model to the distribution of studio course credit load, hours and schedule, a model that will benefit student learning, equitable teaching assignments, but also research engagement, by creating more opportunities for better alignment between faculty research and course format and content. The School of Architecture has faculty that can supervise theses and research projects in this field of instruction. The curriculum review also provided an opportunity to do some 'housekeeping', addressing ongoing issues with the present programs (e.g. course codes misalignment, course duplications so that it could be offered to two different cohorts, or inadequate representation of content taught by course titles and calendar descriptions). Therefore, the proposed modification eliminates course redundancies and includes many updated titles, course descriptions and codes as needed.
Transition/Implementation	The new curriculum is to begin in the Fall 2025, both for the three-year M.Arch and two-year M.Arch.

| Program reviewer comments | **AnneBordeleau (09/30/24 4:41 pm):** Rollback: Missing one course / remove 0.5 elective
nataliephelan (10/24/24 10:08 am): Updated program code so it matches that used in Banner. |

Key: 2110

Program Change Request

Date Submitted: 09/27/24 12:45 pm

Viewing: MARCH-31ACH ~~TBD-2111~~ : 3-YR M.Arch with Collaborative Specialization in Climate Change

Last approved: 01/12/24 3:52 pm

Last edit: 11/29/24 2:34 pm

Last modified by: robyngreen

Changes proposed by: hollykleinswormink

Approval Path

1. 09/30/24 4:42 pm Anne Bordeleau (AnneBordeleau): Approved for ARCH ChairDir GR
2. 10/28/24 3:25 pm Richard Dansereau (richarddansereau): Approved for ENG Dean
3. 11/04/24 3:32 pm Richard Dansereau (richarddansereau): Approved for ENG GFCC

History

1. Jan 31, 2022 by Claire Ryan (claireryan)
2. Jul 25, 2022 by Sandra Bauer (sandrabauer)
3. Jan 20, 2023 by Holly Klein-Swormink (hollykleinswormink)
4. Mar 27, 2023 by Sandra Bauer (sandrabauer)
5. Jan 12, 2024 by Sandra Bauer (sandrabauer)

Calendar Pages Using this Program	Climate Change (Collaborative Program) Architecture
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	MARCH-31ACH ~~TBD-2111~~
Level	Graduate
Faculty	Faculty of Engineering and Design
Academic Unit	Azrieli School of Architecture and Urbanism
Degree	Master of Architecture
Title	3-YR M.Arch with Collaborative Specialization in Climate Change

Program Requirements

M. Architecture 3-year stream
with Collaborative Specialization in Climate Change (15 ~~(15.5~~ credits)

Note: Please consult the School regarding registration sequence.

Requirements:
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. 5.5 credits in core:		5.5
ARCC 5096 [0.5]	Building Technology I	
ARCC 5097 [0.5]	Building Technology II	
ARCC 5098 [0.5]	Building Technology III	
ARCC 5099 [0.5]	Building Technology IV	
ARCC 5100 [0.5]	Advanced Building Systems	
ARCC 5200 [0.5]	Professional Practice	
ARCH 5010 [0.5]	History and Theory of Modern Architecture	
ARCH 5020 [0.5]	Theories of Modernity	
ARCH 5200 [0.5]	Graduate Seminar 1: Introduction to Critical Thought in Architecture	
ARCH 5201 [0.5]	Graduate Seminar 2: Contemporary Theoretical Perspectives in Architecture	
ARCN 5005 [0.5]	Theory and Practice of Architectural Representation	
4. 7.0 credits in studio:		7.0
ARCS 5030 [1.5]	M.Arch 1 - Studio 1	
ARCS 5032 [1.5]	M.Arch. 1 - Studio II	
ARCS 5033 [1.0]	M.Arch. 1 - Studio III	
ARCS 5105 [1.5]	Graduate Studio 1	
ARCS 5106 [1.5]	Graduate Studio 2	
3. 6.0 credits in core:		6.0
ARCH 5221 [0.0]	Ecological & Regulatory Systems	
ARCH 5222 [0.0]	Structures	
ARCH 5223 [0.0]	Assemblies and Environmental Systems	
ARCH 5224 [0.0]	Advanced Building Systems	
ARCH 5331 [0.0]	Modernism and Global Urbanism	
ARCH 5332 [0.0]	Contemporary Theories in Architecture	
ARCH 5333 [0.0]	Selected Topics in Architectural Theory	
ARCH 5441 [0.0]	Studio 1: Workshop	
ARCH 5444 [0.0]	Comprehensive Studio Workshop	
ARCH 5551 [0.0]	Professional Practice	
ARCH 5552 [0.0]	Design Thesis Preparation	
4. 5.0 credits in studio:		5.0
ARCH 5111 [0.0]	Studio I: Land & Environment	
ARCH 5112 [0.0]	Studio II: Materiality + Adaptation	
ARCH 5113 [0.0]	Studio III: Urbanism + Society	
ARCH 5114 [0.0]	Comprehensive Studio: Climate + Integration	
ARCH 5115 [0.0]	Graduate Studio Abroad: Agency + Justice	
5. 2.0 credits in:		2.0
ARCN 5909 [2.0]	Thesis - Directed Research Studio (DRS) (must be defended at an oral examinatiion)	
ARCH 5555 [0.0]	Architecture Thesis	
Thesis topic must be related to climate change		
6. 1.0 credits in free electives at the 4000-level or higher		1.0
Total Credits		15.0

New Resources	No New Resources
Summary	1. Clarify the curricular sequence; 2. Alignment with BAS degree with piggy-backed courses for consistency and for effective use of resources; 3. Update course titles and calendar descriptions to better define learning outcomes and accreditation requirements to be addressed in each course; 4. Transition to 1.0 CR for all studios, and adding a 0.5 credit workshop to support additional experiential learning in the two Fall studios. 5. Ensuring that students have additional electives to better support opportunities to participate in the Climate Change specialization.
Rationale for change	The proposed modification supports the Azrieli School of Architecture & Urbanism's (ASAU) commitment to reorient its curricula around contemporary and urgent issues in society broadly as well as in the design disciplines. Taking cues from the University's Strategic Plan and Kinàmàgawin report, but also responding to the climate emergency and the new student performance criteria (SPC) being drafted by the Canadian Architectural Certification Board (CACB), the curricular changes reorient our teaching and courses more intentionally around land and climate, foregrounding climate, our occupation of Indigenous lands, and the subservience of our discipline to the broader public and urban realms, as well as to existing buildings and environments, as important grounds upon which we teach and learn about our responsibilities and skills as designers and architects. As such, the modification enabled us to strengthen our programs, their desirability for prospective students, the clarity of their pedagogical arcs and teaching framework, and their learning outcome to better serve both the profession and the ASAU's profile as a leading School of architectural education. At the same time, the modifications address issues of equity in relation to faculty teaching load. Specifically, the modification provided opportunities to address Architecture-specific teaching load considerations, and to develop a more equitable approach and a better pedagogical model to the distribution of studio course credit load, hours and schedule, a model that will benefit student learning, equitable teaching assignments, but also research engagement, by creating more opportunities for better alignment between faculty research and course format and content. The School of Architecture has faculty that can supervise theses and research projects in this field of instruction. The curriculum review also provided an opportunity to do some 'housekeeping', addressing ongoing issues with the present programs (e.g. course codes misalignment, course duplications so that it could be offered to two different cohorts, or inadequate representation of content taught by course titles and calendar descriptions). Therefore, the proposed modification eliminates course redundancies and includes many updated titles, course descriptions and codes as needed.
Transition/Implementation	The new curriculum is to begin in the Fall 2025, both for the three-year M.Arch and two-year M.Arch.
Program reviewer comments	**nataliephelan (10/24/24 10:07 am):** Updated program code so it matches that used in Banner.

Key: 2111

Course Change Request

New Course Proposal

Date Submitted: 09/26/24 2:15 pm

Viewing: **ARCH 5555 : Architecture Thesis**

Last edit: 01/27/25 3:26 pm

<u>Changes proposed by: hollykleinswormink</u>

Calendar Pages referencing this course	<u>Architecture</u> <u>Architecture - Theory/History (ARCH)</u>
Programs referencing this course	<u>2-YR M.Arch with Collaborative Specialization in Climate Change</u> <u>3-YR M.Arch with Collaborative Specialization in Climate Change</u> <u>2-YR M.Arch with Collaborative Specialization in Accessibility</u> <u>3-YR M.Arch with Collaborative Specialization in Accessibility</u> <u>M. Architecture 2-year and 3-year streams</u>

In Workflow

1. **ARCH ChairDir GR**
2. **ENG GFCC**
3. **ARCH FBoard**
4. **PRE SCCASP**
5. SCCASP
6. SQAPC
7. Senate
8. Banner

Approval Path

1. 09/26/24 2:53 pm
   Zach Colbert
   (zachcolbert): Approved
   for ARCH ChairDir GR
2. 11/04/24 3:33 pm
   Richard Dansereau
   (richarddansereau):
   Approved for ENG GFCC
3. 11/27/24 1:01 pm
   Johan Voordouw
   (johanvoordouw):
   Approved for ARCH
   FBoard

Effective Date	2025-26
Workflow	majormod
New Resources	No New Resources
Level	Graduate
Course Code	ARCH
Course Number	5555
Title	Architecture Thesis
Title (short)	Architecture Thesis
Faculty	Faculty of Engineering and Design
Academic Unit	Azrieli School of Architecture and Urbanism
Credit Value	2.0
Special/Selected Topics	Not Applicable
Significant Experiential Learning	Applied Research Project
Course Description	Intensive design-research thesis supported by a faculty supervisor. Students will synthesize academic writing with a design exploration of a topic of architectural significance using a range of appropriate and inventive design and research methods.
Prerequisite(s)	ARCH 5115 or ARCS 5106.
Class Format	
Precluded Courses	ARCN 5909.
Also listed as	
Piggybacked Courses	
U Ottawa Code	
Grade Mode	Thesis/Dissertation
Schedule Type	*Masters Thesis

*May constitute a major modification under Carleton's IQAP. Please consult <u>https://carleton.ca/viceprovost/major-minor-modifications/</u> for more details.

Unpaid Placement	No
Summary	Creating new course to replace ARCN 5909
Rationale for new course	Bring pedagogical and workload consistency to the M. Arch program and standardizing use of single course code ARCH.
Course reviewer comments	**nataliephelan (11/21/24 2:00 pm):** 1. Removed class format - field is not used for grad courses. 2. Changed eff. date to 25-26. 3. Punctuation in pre-req and/or preclusion field.

Key: 11125

Preview Bridge

Program Change Request

New Program Proposal

Date Submitted: 12/06/24 9:07 am

Viewing: **TBD-2303 : Master of Public Policy and Administration with Collaborative Specialization in Climate Change**

Last edit: 12/10/24 3:02 pm

Last modified by: vandnabhatia

Changes proposed by: emmasmcdonald

In Workflow

1. **PADM ChairDir GR**
2. **PA Dean**
3. **PA GFCC**
4. **PA FBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. CalEditor

Approval Path

1. 12/05/24 6:03 pm Jennifer Stewart (jenniferstewart): Rollback to Initiator
2. 12/06/24 9:32 am Jennifer Stewart (jenniferstewart): Approved for PADM ChairDir GR
3. 12/06/24 5:11 pm Vandna Bhatia (vandnabhatia): Rollback to PADM ChairDir GR for PA Dean
4. 12/09/24 7:39 am Jennifer Stewart (jenniferstewart): Approved for PADM ChairDir GR
5. 12/10/24 3:04 pm Vandna Bhatia (vandnabhatia): Approved for PA Dean
6. 01/10/25 4:27 pm Vandna Bhatia (vandnabhatia): Approved for PA GFCC
7. 01/13/25 5:09 pm Vandna Bhatia (vandnabhatia): Approved for PA FBoard

Effective Date	2025-26
Workflow	majormod
Program Code	TBD-2303
Level	Graduate
Faculty	Faculty of Public Affairs
Academic Unit	School of Public Policy and Administration
Degree	
Title	Master of Public Policy and Administration with Collaborative Specialization in Climate Change

Program Requirements

Master of Public Policy and Administration with Collaborative Specialization in Climate Change (7.0 credits)

Requirements - coursework pathway (7.0 credits)

1. **1.0 credit in:** 1.0
   - CLIM 5000 [1.0]   Climate Collaboration
2. **0.0 credit in:** 0.0
   - CLIM 5800 [0.0]   Climate Seminar Series
3. **4.5 credits in** core courses: 4.5

PADM 5120 [0.5]	Modern Challenges to Governance	
PADM 5121 [0.5]	Policy Analysis: The Practical Art of Change	
PADM 5122 [0.5]	Public Management: Principles and Approaches	
PADM 5123 [0.5]	Public Management in Practice	
PADM 5125 [0.5]	Qualitative Methods for Public Policy	
PADM 5126 [0.5]	Quantitative Methods for Public Policy	
PADM 5127 [0.5]	Microeconomics for Policy Analysis	
PADM 5128 [0.5]	Macroeconomics for Policy Analysis	
PADM 5129 [0.5]	Capstone Course	

4. 1.0 credits in approved climate change electives (see School website for details) — 1.0

5. 0.5 credit in approved electives (see School website for details) — 0.5

Total Credits — 7.0

Requirements - research essay pathway (7.0 credits)

1. 1.0 credit in: — 1.0

CLIM 5000 [1.0]	Climate Collaboration

2. 0.0 credit in: — 0.0

CLIM 5800 [0.0]	Climate Seminar Series

3. 4.5 credits in core courses: — 4.5

PADM 5120 [0.5]	Modern Challenges to Governance
PADM 5121 [0.5]	Policy Analysis: The Practical Art of Change
PADM 5122 [0.5]	Public Management: Principles and Approaches
PADM 5123 [0.5]	Public Management in Practice
PADM 5125 [0.5]	Qualitative Methods for Public Policy
PADM 5126 [0.5]	Quantitative Methods for Public Policy
PADM 5127 [0.5]	Microeconomics for Policy Analysis
PADM 5128 [0.5]	Macroeconomics for Policy Analysis
PADM 5129 [0.5]	Capstone Course

4. 1.0 credit in: — 1.0

PADM 5908 [1.0]	Research Essay (in the Specialization)

5. 0.5 credit in approved electives (see School website for details) — 0.5

Total Credits — 7.0

New Resources	No New Resources
Summary	Adding the existing Collaborative Specialization in Climate Change to options available for students in the Master of Public Policy and Administration (MPPA-48).
Rationale	Rationale: Climate change is a challenging policy issue. A learning objective of the MPPA is to prepare our students to provide policy solutions for these existential challenges and crises facing humanity. The option to take the collaborative specialization provides our students the opportunity to explore the issue of climate change in depth and from a multidisciplinary perspective creating a strong foundation for developing policy issues. Resources: One program in the School, the MPP in Sustainable Energy and the Environment, is currently participating in the collaborative specialization so we are already obligated to provide a faculty member to teach part of CLIM5000 every few years. We offer sufficient electives related to climate change to provide students adequate choice in electives. Courses we offer at least every other year include: PADM 5510 Energy Economics PADM 5614 Natural Resource Management PADM 5616 Environmental Policy PADM 5619 Urban Sustainability PADM 5515 Sustainable Energy Policy We have several faculty members who are available to supervise Major Research Essays in climate change – Graeme Auld, Alexandra Mallett, James Meadowcroft, Danny Rosenbloom, and Stephan Schott.
Transition/Implementation	Does not affect current students.
Program reviewer comments	**jenniferstewart (12/05/24 6:03 pm):** Rollback: There was a mistake in the Research Essay option. I am emailing you a corrected version. Sorry **vandnabhatia (12/06/24 5:11 pm):** Rollback: As requested. **nataliephelan (12/10/24 10:59 am):** Reformatted requirements into course lists.

Key: 2303

STATEMENT OF SUPPORT FROM CONTRIBUTING UNIT

RE: Adding the option for the Collaborative specialization in climate change to the Master of Public Policy and Administration

[X] I support this change unconditionally.

[ ] I do not support this change.

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

Signature: _[signature]_

Name: Jesse Vermaire

Title: Associate Professor and Director of IEIS

Academic unit: IEIS

Date: 12/17/2024

Notes: This statement of support is given in my role as Coordinator of the Collaborative specialization in climate change.

Program Change Request

Date Submitted: 11/07/24 2:03 pm

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

Last approved: 04/03/23 5:59 pm

Last edit: 11/08/24 12:39 pm

Last modified by: nataliephelan

Changes proposed by: lanakeon

In Workflow

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

Approval Path

1. 11/07/24 7:01 pm
   Adrian Chan
   (adrianchan): Approved
   for ACCS ChairDir GR
2. 11/08/24 10:46 am
   Amrita Hari (amritahari):
   Approved for WOMN
   ChairDir GR
3. 11/21/24 8:42 am
   Augustine Park
   (augustinepark):
   Approved for AS Dean
4. 11/29/24 9:19 am
   Augustine Park
   (augustinepark):
   Approved for AS GFCC
5. 12/06/24 2:21 pm
   Augustine Park
   (augustinepark):
   Approved for AS FBoard

History

1. Apr 3, 2023 by Sandra
   Bauer (sandrabauer)

Calendar Pages Using this Program	Women's and Gender Studies Accessibility (Collaborative Specialization)
Effective Date	2025-26
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 [0.5]   Critical Disability Studies
   - ACCS 5002 [0.5]   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.		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 [0.5]	Critical Disability Studies	
ACCS 5002 [0.5]	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

Requirements - Coursework Pathway (5.0 credits):

1. **1.5 credits in:**		1.5
WGST 5900 [0.5]	Program Seminar	
WGST 5906 [0.5]	Feminist Theory	
WGST 5907 [0.5]	Researching Women's and Gender Issues	
2. **1.0 credit in:**		1.0
ACCS 5001 [0.5]	Critical Disability Studies	
ACCS 5002 [0.5]	Accessibility and Inclusive Design Seminar	
3. **0.5 credit in** a course designated as having sufficient accessiiblity content and approved by the Women's and Gender Studies graduate advisor.		0.5
4. **2.0 credits in** Women's and Gender Studies courses or approved electives. With Institute permission 0.5 credit may be selected from courses at the 4000-level.		2.0
Total Credits		5.0

New Resources	No New Resources
Summary	Adding a coursework pathway to the M.A. in Women's and Gender Studies with Collaborative Specialization in Accessibility
Rationale for change	The M.A. in Women's and Gender Studies currently offers three streams: coursework, master's research essay, and thesis. Adding a coursework pathway to this collaborative specialization would remove barriers for M.A. students already in the coursework stream who wish to add this specialization.
Transition/Implementation	Notification to current students, changes to website for new applicants.
Program reviewer comments	**nataliephelan (11/08/24 12:39 pm):** Formatting edits to course list.

Key: 2188

Course Change Request

New Course Proposal

Date Submitted: 11/28/24 2:27 pm

Viewing: DATA 5913 : Co-operative Work Term

Last edit: 11/28/24 2:27 pm

Changes proposed by: nataliephelan

In Workflow

1. **COMP ChairDir GR**
2. **SCI Dean**
3. **SCI GFCC**
4. **SCI JFBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. Banner

Approval Path

1. 11/28/24 2:29 pm
   Anil Maheshwari
   (ANILMAHESHWARI):
   Approved for COMP
   ChairDir GR
2. 12/02/24 10:38 am
   Maria Doria
   (mariadoria): Approved
   for SCI Dean
3. 12/10/24 10:49 am
   Maria Doria
   (mariadoria): Approved
   for SCI GFCC
4. 01/28/25 8:22 pm
   Maria Doria
   (mariadoria): Approved
   for SCI JFBoard

Effective Date	2025-26
Workflow	majormod
New Resources	No New Resources
Level	Graduate
Course Code	DATA
Course Number	5913
Title	Co-operative Work Term
Title (short)	Co-operative Work Term
Faculty	Faculty of Science
Academic Unit	School of Computer Science
Credit Value	0.0
Special/Selected Topics	Not Applicable
Significant Experiential Learning	Co-op
Course Description	
Prerequisite(s)	registration in the Co-operative Education Option in the Data Science, Analytics, and Artificial Intelligence program.
Class Format	
Precluded Courses	
Also listed as	
Piggybacked Courses	
U Ottawa Code	
Grade Mode	Satisfactory/Unsatisfactory

Schedule Type	*Work Term
	*May constitute a major modification under Carleton's IQAP. Please consult https://carleton.ca/viceprovost/major-minor-modifications/ for more details.
Unpaid Placement	No
Summary	Creation of course code for new DSAAI co-op option.
Rationale for new course	The DSAAI program is launching a co-op option, so this will give all students across the different degrees that comprise the field one unified course code to register under.
Course reviewer comments	

Key: 11234

Preview Bridge

Program Change Request

New Program Proposal

Date Submitted: 11/13/24 9:59 am

Viewing: TBD-2301 : Co-op Option - Data Science, Analytics, and Artificial Intelligence

Last edit: 11/28/24 1:48 pm

Last modified by: nataliephelan

Changes proposed by: nataliephelan

In Workflow

1. **COMP ChairDir GR**
2. **REGS COOP GR Review**
3. **PRE SCCASP**
4. SCCASP
5. SQAPC
6. Senate
7. CalEditor

Approval Path

1. 11/13/24 2:02 pm
   Anil Maheshwari
   (ANILMAHESHWARI):
   Approved for COMP
   ChairDir GR
2. 11/13/24 4:24 pm
   Caitlin MacGregor
   (caitlinmacgregor):
   Approved for REGS COOP
   GR Review

Effective Date	2025-26
Workflow	majormod
Program Code	TBD-2301
Level	Graduate
Faculty	Faculty of Science
Academic Unit	School of Computer Science Co-op Office
Degree	
Title	Co-op Option - Data Science, Analytics, and Artificial Intelligence

Program Requirements

Data Science, Analytics, and Artificial Intelligence Co-operative Education Option

Students are encouraged to apply for admission to the Co-operative Education Program by the end of their first term of academic study.

To be eligible for admission to Co-op, students must:

1. be enrolled in the M.A.S.c., M.C.S., M.Eng., M.I.T., or M.Sc. in Data Science, Analytics, and Artificial Intelligence;
2. have completed, by the start-date of the first work term, DATA 5000 and/or DATA 5001;
3. have achieved, by the start-date of the first work term, a minimum grade of A- in at least four 5000-level courses;
4. be registered as a full-time student in each academic term prior to a work term;
5. be eligible to work in Canada (for off-campus work terms).

For more information, please refer to the Co-operative Education Policy.

New Resources	No New Resources
Summary	Adding language to the calendar relating to introduction of co-op option for DSAAI master's students.
Rationale	Standardized calendar language to articulate the admission and continuation requirements for DSAAI co-op. Written in consultation between Co-op Office and DSAAI.
Transition/Implementation	n/a
Program reviewer comments	**nataliephelan (11/26/24 12:19 pm):** Corrected link to graduate co-op regulations.

Key: 2301

New Program Proposal

Date Submitted: 09/25/24 11:13 am

Viewing: **TBD-2287 : PHD-DAS: Data Science, Analytics, and Artificial Intelligence Admission**

Last edit: 01/30/25 8:59 am

Last modified by: nataliephelan

Changes proposed by: katherinewaitschat

Approval Path

1. 09/25/24 11:15 am Anil Maheshwari (ANILMAHESHWARI): Approved for COMP ChairDir GR
2. 09/27/24 1:30 pm Maria Doria (mariadoria): Approved for SCI Dean
3. 10/08/24 11:32 am Maria Doria (mariadoria): Approved for SCI GFCC
4. 12/09/24 11:23 am Maria Doria (mariadoria): Approved for SCI JFBoard

Effective Date	2025-26
Workflow	majormod
Program Code	TBD-2287
Level	Graduate
Faculty	Faculty of Science
Academic Unit	School of Computer Science
Degree	Doctor of Philosophy
Title	PHD-DAS: Data Science, Analytics, and Artificial Intelligence Admission

Program Requirements

Admission (Ph.D.)

See the General Regulations section of this Calendar for detailed admission requirements. The normal requirement for admission to the DSAAI Ph.D. program is a master's degree in data science or in a discipline relevant to the home unit of the supervisor, or the equivalent, including demonstrated significant research ability, with at least B+ standing.

New Resources	No New Resources
Summary	Inclusion of DSAAI PhD admission criteria.
Rationale	This information was missed in the initial submission and needs to be in the calendar now.
Transition/Implementation	n/a.
Program reviewer comments	**nataliephelan (01/30/25 8:59 am):** Changed to 25-26. Added "admission" to proposal title to make it more clear what this actually is!

Key: 2287

Program Change Request

Date Submitted: 10/16/24 10:15 am

Viewing: **GDIP: EURUS : Graduate Diploma in** <u>**European, Russian and Eurasian**</u> ~~**European Integration**~~ **Studies**

Last approved: 07/25/22 3:50 pm

Last edit: 11/14/24 9:40 am

Last modified by: vandnabhatia

[Changes proposed by: heathermoulton](#)

Approval Path

1. 08/25/24 2:56 pm Crina Viju (crinaviju): Approved for EURR ChairDir GR
2. 09/18/24 6:26 pm Vandna Bhatia (vandnabhatia): Approved for PA GFCC
3. 10/08/24 12:21 pm Vandna Bhatia (vandnabhatia): Approved for PA FBoard
4. 10/16/24 9:22 am Natalie Phelan (nataliephelan): Rollback to Initiator
5. 10/16/24 12:04 pm Crina Viju (crinaviju): Approved for EURR ChairDir GR
6. 11/05/24 2:55 pm Vandna Bhatia (vandnabhatia): Rollback to EURR ChairDir GR for PA GFCC
7. 11/05/24 5:38 pm Crina Viju (crinaviju): Approved for EURR ChairDir GR
8. 11/14/24 9:40 am Vandna Bhatia (vandnabhatia): Approved for PA GFCC
9. 11/21/24 2:39 pm Vandna Bhatia (vandnabhatia): Approved for PA FBoard
10. 12/02/24 10:02 am Natalie Phelan (nataliephelan): Approved for PRE SCCASP
11. 12/09/24 7:57 am Natalie Phelan (nataliephelan): Rollback to PRE SCCASP for SCCASP

History

1. Feb 6, 2017 by Krysia Kotarba (krysiakotarba)
2. Feb 13, 2017 by Sandra Bauer (sandrabauer)
3. May 10, 2017 by Sandra Bauer (sandrabauer)
4. May 10, 2017 by Sandra Bauer (sandrabauer)
5. Aug 13, 2019 by Sarah Cleary (sarahcleary)
6. Jul 25, 2022 by Natalie Phelan (nataliephelan)

Calendar Pages Using this Program   [European, Russian and Eurasian Studies](#)

Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	GDIP: EURUS
Level	Graduate
Faculty	Faculty of Public Affairs
Academic Unit	Institute of European, Russian and Eurasian Studies
Degree	
Title	Graduate Diploma in European, Russian and Eurasian ~~European Integration~~ Studies

Program Requirements

Graduate Diploma in European, Russian and Eurasian ~~European Integration~~ Studies (2.0 credits)

Requirements (Type 2 Graduate Diploma):

~~1. 1.5 credits from~~ ~~the Primary Option List~~		~~1.5~~
~~2. 0.5 credit from~~ ~~the Secondary Option List~~		~~0.5~~
1. 1.0 credit in EURR at the 5000 level		1.0
2. 1.0 credit in EURUS electives (see electives course list) or courses chosen with the approval of the graduate supervisor		1.0
Total Credits		2.0

Notes: ~~Note:~~

1. No credit in a language discipline may be counted towards program requirements.

~~2.~~ ~~A maximum of 1.0 credit can be double-counted with the student's main degree~~ ~~program. Other 5000-level courses may be approved by the graduate supervisor as Diploma~~ ~~credits if they are deemed appropriate to the~~ ~~program.~~ To ~~In order to~~ be awarded the Diploma Type 2, ~~Diploma,~~ students must apply to graduate with the Diploma ~~Diploma~~ at the same time as they apply to graduate with their M.A. or Ph.D.

~~Secondary Option List~~
~~ECON 5401 [0.5]~~	~~Public Economics: Expenditures~~
~~ECON 5402 [0.5]~~	~~Public Economics: Taxation~~
~~ECON 5601 [0.5]~~	~~International Trade: Theory and Policy~~
~~ECON 5602 [0.5]~~	~~International Monetary Theory and Policy~~
~~EURR 5102 [0.5]~~	~~The International Political Economy of Transition~~
~~PSCI 5106 [0.0]~~	~~Course PSCI 5106 Not Found~~
~~PSCI 5807 [0.5]~~	~~Analysis of International Organizations~~
~~PSCI 5808 [0.5]~~	~~International Political Economy~~
~~INAF 5308 [0.5]~~	~~International Trade: Theory and Policy~~
~~INAF 5309 [0.5]~~	~~International Finance: Theory and Policy~~

~~Primary Option List~~
~~INAF 5804 [0.0]~~	~~Course INAF 5804 Not Found~~
~~EURR 5003 [0.0]~~	~~Course EURR 5003 Not Found~~
~~EURR 5104 [0.5]~~	~~European Integration and European Security~~
~~EURR 5105 [0.5]~~	~~European Economic Integration~~
~~EURR 5106 [0.5]~~	~~Selected Topics in European Integration Studies~~
~~EURR 5108 [0.5]~~	~~Canada-EU Relations: Summer Module~~
~~EURR 5109 [0.5]~~	~~The EU in International Affairs~~
~~EURR 5205 [0.5]~~	~~The European Union and its Eastern Neighbours~~
~~EURR 5302 [0.5]~~	~~EU Summer Study Abroad~~
~~EURR 5303 [0.5]~~	~~Contemporary Europe: From Postwar to the European Union~~
~~EURR 5304 [0.5]~~	~~Europe and International Migration~~

New Resources	No New Resources
Summary	Title of the diploma changed and requirements adjusted to reflect the change. Deletion of the following note: Note: A maximum of 1.0 credit can be double-counted with the student's main degree program.
Rationale for change	When the GDip was originally proposed, it was focused on European integration. Now we would like to expand it to include the entire region we study. Thus the change to the name and program requirements. We are removing the note about a maximum of 1.0 credit being double-counted because the university eliminated this restriction a few years ago.
Transition/Implementation	No impact.
Program reviewer comments	**nataliephelan (10/16/24 9:22 am):** Rollback: Further changes needed. **vandnabhatia (11/05/24 2:55 pm):** Rollback: Should this be in major workflow? **nataliephelan (11/05/24 3:35 pm):** Changed to majormod workflow. **vandnabhatia (11/14/24 9:39 am):** Removed references to Type 3 Diploma, as discussed at GCC. A separate new program proposal to create a Type 3 Graduate Diploma will be required. **nataliephelan (12/09/24 7:57 am):** Rollback: Advanced in error; not yet ready for SCCASP.

Key: 922

Program Change Request

Date Submitted: 12/05/24 9:01 am

Viewing: MCS-DAS ~~TBD-2068~~ : M.C.S. Data Science, Analytics, and Artificial Intelligence

Last approved: 04/12/23 2:42 pm

Last edit: 12/05/24 9:01 am

Last modified by: katherinewaitschat

Changes proposed by: katherinewaitschat

In Workflow

1. **COMP ChairDir GR**
2. **SCI Dean**
3. **SCI GFCC**
4. **SCI JFBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. CalEditor

Approval Path

1. 12/05/24 9:07 am Anil Maheshwari (ANILMAHESHWARI): Approved for COMP ChairDir GR
2. 12/05/24 10:49 am Maria Doria (mariadoria): Approved for SCI Dean
3. 12/10/24 10:49 am Maria Doria (mariadoria): Approved for SCI GFCC
4. 01/28/25 8:22 pm Maria Doria (mariadoria): Approved for SCI JFBoard

History

1. Sep 2, 2021 by Sandra Bauer (sandrabauer)
2. Jun 10, 2022 by Natalie Phelan (nataliephelan)
3. Apr 3, 2023 by Sandra Bauer (sandrabauer)
4. Apr 12, 2023 by Sandra Bauer (sandrabauer)
5. Apr 12, 2023 by Sandra Bauer (sandrabauer)

Calendar Pages Using this Program	Data Science, Analytics, and Artificial Intelligence
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	MCS-DAS ~~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, and Artificial Intelligence

Program Requirements

M.C.S. Data Science, Analytics, and Artificial Intelligence (5.0 credits)

Requirements - thesis pathway (5.0 credits)		
1. 1.0 credit in:		1.0
DATA 5000 [0.5]	Introduction to Data Science	
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
5. 0.5 credit from above electives must be in applications of artificial intelligence or machine learning (See DSAAI program website for list)	
6. 2.5 credits in:	2.5

DATA 5939 [2.5]	Thesis - MCS	
Total Credits		5.0

Requirements - coursework pathway (5.0 credits)

1. 1.0 credit in:	**1.0**

DATA 5000 [0.5]	Introduction to Data Science	
DATA 5001 [0.5]	Fundamentals in Data Science and Analytics	

2. 2.0 credits in approved COMP electives (see DSAAI program website for list of applicable electives)	**2.0**
3. 1.0 credit in approved electives from two units not in COMP (see DSAAI program website for list of applicable electives)	**1.0**
4. 1.0 credit in electives from any participating DSAAI unit	**1.0**
Note: 0.5 credit from the above electives must be in applications of artificial intelligence or machine learning (see DSAAI program website for list).	
Total Credits	5.0

New Resources	No New Resources
Summary	Addition of a coursework pathway for the MCS in DSAAI. Program code also updated to match that used in Banner (N. Phelan).
Rationale for change	The DSAAI-MCS program currently only offers a thesis-based pathway. Introducing a coursework-based pathway is expected to attract students interested in course-based learning and aligns with other coursework pathways offered in the DSAAI program.
Transition/Implementation	N/A

Program reviewer comments	

Key: 2068

Template for Major Modifications: A2

MEMORANDUM

To: Senate Quality Assurance and Planning Committee (SQAPC) for A2s

From: James Mungall, Earth Sciences

CC: Maria DeRosa and Sue Bertram

Date: January 28, 2025

Subject: Major Modification to [Program Name here]. Track A2

**Modification Description** (1-1.5 pages)

Earth Sciences undertook a major overhaul of its undergraduate course offerings during 2024. The changes were implemented in recognition that recent losses in faculty numbers due to retirements are unlikely to be reversed in the near future, and that in the current climate it is impossible to deliver core courses with the support of contract instructors (CIs). The Hons and Major Earth Science programs are designed to meet the knowledge requirements of the Professional Geoscientists of Ontario (PGO), registration with which is required by law for people who practice geoscience upon graduation. The PGO knowledge requirements are a consensus document that was created by consultation with Earth Science departments across Canada and is considered to represent the minimal curriculum to produce well-rounded geoscience professionals. The requirements are highly specific at the first and second year levels but are very flexible in upper years, permitting appropriate levels of academic freedom to Earth Science departments. By comparing our offerings with the PGO guidelines we permit our students to graduate with an education that they know will be acceptable for professional registration; however the program is not accredited in the sense that Engineering programs are accredited and the Earth Sciences department retains complete control over pedagogy and curriculum development. The ERTH programs exceed the minimum requirements of PGO. The fact that the revised programs still meet and exceed PGO requirements is an indication that the fundamental character of the programs has not significantly changed.

Goals included: removing courses that had not been taught for several years and making slight reductions in the number of core courses offered to keep faculty teaching loads at unit norms and to prevent the need to offer multiple undersubscribed courses to a fixed pool of core students when a smaller number of courses would achieve our goals while ensuring higher enrolment figures in each course. These adjustments required the shuffling of some courses between 2000- and 3000-level or between 3000- and 4000-level. Whereas the previous curricula required the assistance of several contract instructors the new curricula can be covered by tenure-track faculty with minimal additional CIs.

Program-level changes – major or minor modifications: The lengthy list of course changes detailed below necessitated numerous adjustments to the programs in which those courses appear. As a result, the changes have been flagged as major modifications. However, the pedagogical consequences are minimal, and the program-level learning outcomes will not change materially. Apart from removal of courses that have not been taught for years and moving three courses to different program years, the main differences from current practice are the removal of one first year course and one second year course. The gaps these deletions left have been compensated by adding course requirements in the 2000- and 3000-level sections of the program descriptions. These changes leave the total number of courses in the Hons and Major programs at 20 and slightly elevate the amount of core upper-year programming, while streamlining the range of choices offered at each level.

One other noteworthy addition to the program requirements was an increase from one to two mandatory field schools over the four-year program, with a total possibility of up to four field courses if students choose to use some of their 4000-level core electives for field instruction.

The former Minor program was primarily built around service courses and offered few lab courses. The revised Minor program has similar structure but due to cutbacks in service teaching which was largely performed by CIs, it now requires the students to take core ERTH courses, most of which have labs. The result will be a more intimate look at the Earth Sciences with smaller classes, more hands-on experience, and a deeper understanding of the science.

Because the structure and outcomes of the Hons and Major programs are almost unchanged, the remainder of this document is devoted to explanations of the course-level changes that were made.

Below the course additions and deletions are listed; due to these changes, all other courses required adjustments to their prerequisites, which appear on the list of Minor Modifications as "edited". These prerequisite changes are merely book-keeping and do not reflect changes in course content or pedagogy.

1000-level changes: Deletion of ERTH 1006, 1009, 1010, 1011 and their replacement by ERTH 1002, 1004.
Historically ERTH has offered fall and winter lab courses ERTH 1006, ERTH 1009, with companion lecture-only sections listed as ERTH 1010 and ERTH 1011. These courses were prerequisites for 2000-level courses in ERTH and were also popular Science electives for students in other departments. However, they are superfluous in terms of the PGO knowledge requirements. Indeed, some Ontario universities do not make their equivalent courses prerequisites for their Honours or Major ERTH programs at all. ERTH has regarded these as useful introductions to the field but their critical pedagogical content (e.g., basic rock and mineral identification, plate tectonic theory, origin and evolution of life) can be effectively condensed into one semester without loss of continuity into the 2000-level core program. ERTH has therefore replaced these pairs of 0.5 credit courses with the single 0.5 credit lab course ERTH 1002, and its companion lecture-only section ERTH 1004, to be taught in the Fall semester. This opens space in students' timetables for another elective in their first year or would permit them to take their first 2000-level lab course ERTH 2312 Paleontology in the Winter semester, opening space in their second-year timetables.

2000- and 3000-level changes: Deletion of ERTH 2104, 2318, 2406, 3002, 3003, 3203, 3206, 3806 and creation of ERTH 2106, 2407, 2422, 3004, 3703.

ERTH 2104 Igneous Systems, Geochemistry and Processes has been deleted and replaced by the new course ERTH 3004 Igneous Petrology. The change in title is cosmetic in the sense that the content of the course will not be substantially changed. It will be taught by a different faculty member who may make minor adjustments but the learning outcomes are not changed. The shift from second to third year is intended to facilitate timetabling but does not imply a difference in level of instruction or content.

ERTH 2318 Sedimentology (deleted) was formerly offered as a lecture-only section of the lab course ERTH 2314. Enrolment was low and pedagogically it was difficult to justify teaching a fundamentally lab-based course with significant hands-on instruction as a lecture-only course; making it a true stand-alone lecture course would have required additional faculty resources that cannot be justified because numbers would be too low to offer the course.

ERTH 2406 Geology and Map Interpretation (deleted) was another course of limited utility as a PGO knowledge requirement. It was taught by a former (now retired) faculty member as preparation for their subsequent field school; however its essential content will be rolled into the new second year structural geology course and the introduction to the field school itself. Other Ontario universities do not offer a similar course, instead following ERTH's proposed new policy of teaching map interpretation in Structural Geology and field methods at Field School.

ERTH 2422 Drivers of Climate Change through Geological Time is a service course that ERTH has been asked to provide and is not involved in the core ERTH program revisions.

ERTH 3002 Gemology has been deleted. It has not been taught for many years due to low student interest.

ERTH 3003 Geochemistry and Geochronology has been deleted and replaced by the new course ERTH 2106 Geochemistry. The change in title is cosmetic in the sense that the content of the course will not be substantially changed (geochronology is a branch of isotope geochemistry, which will continue to be taught in the same way as before under the new course name). It will be taught by the same faculty member and the learning outcomes are not changed. The shift from third to second year is intended to facilitate timetabling but does not imply a difference in level of instruction or content.

ERTH 3203 Sedimentology and ERTH 3206 Sedimentary Depositional Systems were courses taught by a former faculty member (now retired) and have not been taught for several years due to personnel constraints. They were mutually exclusive; one was a field school and the other was a lecture course with similar content. The teaching of Sedimentology and allied topics has been condensed into ERTH 2314 Sedimentation and Stratigraphy and ERTH 4302 Frozen Earth (see below). The change brings the curriculum into line with current practice and eliminates confusion among students (and faculty) regarding which courses are actually available to be taught.

ERTH 3703 Isotope Geochemistry and Geochronology is a new course added to replace ERTH 4803 Radiogenic Isotope Geology (deleted). In effect, the 4000-level course has just been moved to third year. As mentioned above, isotope geochemistry and geochronology are aspects of the same subdiscipline and the name change does not imply a change in pedagogy or content. The new course will be taught by the same person as the old one.

ERTH 3806 Structural Geology was deleted and replaced by ERTH 2407 Structural Geology. The change was made to ensure that the subject matter will be covered in winter of second year before students first go into the field in the spring immediately afterward. As described above, there will be a slight increase in existing coverage of map interpretation, a topic that was already covered in the existing course.

4000-level changes: Deletion of ERTH 4303, 4306, 4403, 4406, 4504, 4707, 4803, 4804, 4820, creation of ERTH 4302.

ERTH 4303 Resources of a Finite Earth has been deleted. It was an unusual 4000-level service course with no prerequisites that combined topics of general interest with issues of note for resource and environmental scientists. The only program that required it was the Minor in Earth Sciences, and it was a burden on faculty teaching assignments that would have become unsustainable without the use of CIs.

ERTH 4306 Resource Basin Analysis has been deleted and replaced with ERTH 4302 Frozen Earth. The former was oriented toward fossil fuel exploration in sedimentary rocks and there is no current faculty member qualified to teach this subject, which has not been taught for several years. The new course Frozen Earth will be a course linking advanced topics in Sedimentology and climate studies, using one epoch of Earth history as an example of the interactions between atmosphere, oceans, and lithosphere that have operated throughout Earth history (as exemplified by the Snowball Earth hypothesis).

ERTH 4406 Structural Analysis (deleted) and ERTH 4403 Tectonic Evolution of Canada (deleted) were specialty courses taught by a former faculty member (now retired). They have not been taught for several years and are being removed to clear out moribund calendar entries.

ERTH 4504 Advanced Igneous Petrology has been deleted and ERTH 4507 Advanced Metamorphic Petrology is renamed Advanced Petrology. The contents of both courses are being combined into one. Since both courses dealt with the geochemistry of solid-solid, solid-fluid, and solid-melt reactions in the Earth, their essential content can be covered in one course, a norm that is reflected by the fact that many textbooks combine the two subjects under one cover.

ERTH 4707 Engineering Seismology and ERTH 4804 Exploration Geophysics have both been deleted, having not been taught for several years due to low enrolment and lack of available faculty. This change leaves one 4000-level Geophysics course ERTH 4801 Physics of the Earth to be taught by the one remaining geophysicist (who also teaches ERTH 3405 Geophysical Methods and ERTH 2105 Geodynamics).

ERTH 4820 Research Methods in Earth Sciences has been deleted. It was taught by CIs and has not been offered for several years.

Impact on Other Programs (½ page)

The one notable effect that the changes will have on other programs stems from the removal of 0.5 credit of ERTH lab course at the 1000-level. Since other departments in the Faculty of Science require their students to take 1000-level Science electives in 1.0-credit blocks, it will be necessary for them to adjust their first-year program requirements. At the January 23, 2025 SCAP meeting there was a consensus that the optimal change to other programs would be to replace their option of 1.0 Credit at

the 1000-level in ERTH to ERTH 1002 The Earth and Life Odyssey and ERTH 2312 Paleontology. The deleted Winter course ERTH 1009 was devoted to the history of life on Earth; much of its content will now appear in ERTH 1002. Because ERTH 2312 Paleontology is a Winter semester lab course and also deals with life history it is a logical choice to replace the former ERTH 1009.

Bringing large numbers of non-ERTH Science students into ERTH 2312 Paleontology will present some challenges to the Earth Sciences department, necessitating that the TA resources liberated by deleting ERTH 1009 are likely to be consumed by the larger enrolment in ERTH 2312. Teaching sample collections will be used more heavily than in the past but the addition of multiple lab sections should mitigate shortages.

Impact on Learning Outcomes and Curriculum Map (*½ - 2 pages****) (Only applicable if modification(s) will impact learning goals of the program, or program requirements)***

The learning outcomes of the Honours, Major, and Minor programs and associated Concentrations are not affected by the changes. Key to the restructuring process was the preservation of all previous learning outcomes and the maintenance of a breadth of curriculum sufficient to satisfy the needs of graduates to qualify for professional registration with the Professional Geoscientists of Ontario. As a result, the topics covered and outcomes realized are all merely shuffled or minimally condensed without any loss of significant learning.

Societal Need (½ page) (***Only applicable if introducing an A1 modification or a new concentration***)

NA

Students (½ page)

The modifications are not expected to have any impact on student numbers or on the quality of their experiences.

Resources (1-2 pages)

a. *Faculty resources*: The changes have been made to bring the number of core courses taught into line with the number of faculty available to teach them. There is no increase in faculty resources required for these changes.
b. *Contract instructors*: One of the major motivations for the changes was to diminish the number of courses needing to be taught by CIs – with the new changes Earth Sciences can teach its core programs without depending on CIs except to replace faculty who are on leave. Service courses may continue to be taught by CIs where appropriate and when funding allows, or may be suspended if not.
c. *Administrative support*: There is no change in administrative support needs.
d. *Library resources*: There is no change in required library resources.
e. *Space*: The program changes engender no change to departmental space requirements.
f. *Equipment*: NA
g. *Graduate student funding*: NA.
h. NA.

Governance (½ page)

The changes do not affect department governance.

Tuition (½ page) NA

Program Change Request

Date Submitted: 01/23/25 12:30 pm

Viewing: **HBS-7T : Earth Sciences B.Sc. Honours**

Last approved: 01/23/25 7:24 am

Last edit: 01/31/25 3:32 pm

Last modified by: angelwagner

Changes proposed by: jamesmungall

In Workflow

1. **ERTH ChairDir UG**
2. **SCI FCC**
3. **SCI FBoard**
4. **PRE SCCASP**
5. SCCASP
6. SQAPC
7. Senate
8. PRE CalEditor
9. CalEditor

Approval Path

1. 01/23/25 1:05 pm
   Tim Patterson
   (timpatterson): Approved
   for ERTH ChairDir UG
2. 02/03/25 9:13 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI FCC
3. 02/03/25 9:21 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI FBoard

History

1. Mar 21, 2014 by sandra
2. Aug 26, 2014 by vicki
3. Mar 4, 2015 by Sheila
   Thayer (sheilathayer)
4. Jan 5, 2016 by Sarah
   Adams-Aston
   (sarahadamsaston)
5. Mar 7, 2017 by Sarah
   Adams-Aston
   (sarahadamsaston)
6. Apr 5, 2017 by Sandra
   Bauer (sandrabauer)
7. Jan 9, 2018 by Sarah
   Adams-Aston
   (sarahadamsaston)
8. Feb 7, 2020 by Kristin
   Allen (kristinjallen)
9. Apr 22, 2024 by Kate
   Armstrong
   (katearmstrongfurniva)
10. Jan 23, 2025 by Sheila
    Thayer (sheilathayer)

Calendar Pages Using this Program	Earth Sciences
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	HBS-7T
Level	Undergraduate
Faculty	Faculty of Science
Academic Unit	Department of Earth Sciences
Degree	Bachelor of Science Honours
Title	Earth Sciences B.Sc. Honours

Program Requirements

Earth Sciences
B.Sc. Honours (20.0 credits)

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

1. 1.0 credit in:		1.0
ERTH 1006 [0.0]	Course ERTH 1006 Not Found	
ERTH 1009 [0.0]	Course ERTH 1009 Not Found	
2. 3.5 credits in:		3.5
1. 0.5 credit in:		0.5
ERTH 1002 [0.0]	The Earth and Life Odyssey: A Journey Through Billions of Years	
2. 4.5 credits in:		4.5
ERTH 2102 [0.5]	Mineralogy to Petrology	
ERTH 2104 [0.0]	Course ERTH 2104 Not Found	
ERTH 2105 [0.5]	Geodynamics	
ERTH 2106 [0.0]	Geochemistry	
ERTH 2312 [0.5]	Paleontology	
ERTH 2314 [0.5]	Sedimentation and Stratigraphy	
ERTH 2406 [0.0]	Course ERTH 2406 Not Found	
ERTH 2407 [0.0]	Structural Geology	
ERTH 2419 [0.5]	On the Origin of Planets	
ERTH 2802 [0.5]	Field Geology I	
ERTH 3004 [0.0]	Igneous Petrology	
3. 0.5 credit from:		0.5
ERTH 3203 [0.0]	Course ERTH 3203 Not Found	
ERTH 3206 [0.0]	Course ERTH 3206 Not Found (See Note, below)	
4. 3.0 credits in:		3.0
ERTH 3003 [0.0]	Course ERTH 3003 Not Found	
ERTH 4006 [0.5]	Field Environmental Geobiology	
ERTH 4209 [0.5]	Mineral Exploration Field Geology	
ERTH 4807 [0.5]	Field Geology II	
4. 2.5 credits from:		2.5
ERTH 3111 [0.5]	Vertebrate Evolution: Mammals, Reptiles, and Birds	
ERTH 3112 [0.5]	Vertebrate Evolution: Fish and Amphibians	
ERTH 3204 [0.5]	Mineral Deposits	
ERTH 3205 [0.5]	Physical Hydrogeology	
ERTH 3207 [0.5]	Metamorphic Petrology and Processes	
ERTH 3405 [0.5]	Geophysical Methods	
ERTH 3806 [0.0]	Course ERTH 3806 Not Found (See Note, below)	
ERTH 3703 [0.0]	Isotope geochemistry and geochronology	
5. 2.0 credits in ERTH at the 4000-level		2.0
6. 1.0 credit in:		1.0
ERTH 4908 [1.0]	Honours Thesis	

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

7. 1.0 credit in:		1.0
MATH 1007 [0.5]	Elementary Calculus I	
MATH 1107 [0.5]	Linear Algebra I	
8. 1.0 credit in:		1.0
CHEM 1001 [0.5]	General Chemistry I	
& CHEM 1002 [0.5]	General Chemistry II	
9. 1.0 credit in:		1.0
PHYS 1007 [0.5]	Elementary University Physics I	
& PHYS 1008 [0.5]	Elementary University Physics II	
10. 0.5 credit in:		0.5
BIOL 1104 [0.5]	Foundations of Biology II	
11. 0.5 credit in:		0.5
COMP 1005 [0.5]	Introduction to Computer Science I	
12. 0.5 credit in:		0.5
STAT 2507 [0.5]	Introduction to Statistical Modeling I	
13. 0.5 credit in:		0.5
ERTH 2004 [0.5]	Maps, Satellites and the Geospatial Revolution	
14. 1.0 credit in Science Continuation Courses (not ERTH)		1.0
15. 0.5 credit in:		0.5
NSCI 1000 [0.0]	Course NSCI 1000 Not Found (or approved courses outside the faculties of Science and Engineering and Design)	
16. 1.5 credits in approved courses outside the faculties of Science and Engineering and Design		1.5
17. 1.0 credit in free electives.		1.0
Total Credits		20.0

Note:

1. For Items 14-17, students admitted to the Minor in Business should substitute the requirements for the Minor. See the Business section of this Calendar.

New Resources   No New Resources

Summary	The pair of first year courses ERTH 1006, 1009 is replaced by one first year course ERTH 1002; we accommodate this by adding 0.5 credit of ERTH at the 2000-level.
	ERTH 2406 and ERTH 3806 are both deleted and only one course ERTH 2407 is available to replace them, so we have added ERTH 2419 Origin of Planets to the required list of courses
	ERTH 3203 and ERTH 3206 are both deleted. One was a field school. we have added the requirement that all students take at least one of our 4000-level field schools.
	Igneous petrology ERTH 2104 is moved to third year as ERTH 3004
	Geochemistry ERTH 3003 is moved to second year as ERTH 2106.
	Isotope Geochemistry ERTH 4803 is moved to third year as ERTH 3703.
Rationale for change	Lack of teaching resources (retirements without replacement) and restrictions on class sizes forced us to remove one of the large first year courses, eliminate some of our Sedimentology offerings, and cut back on 4000-level courses with low enrolment. By condensing our 4000-level offerings into a set of 4 mandatory courses we ensure higher student numbers in each class and reduce the number of teaching assignments. Loss of third year Sedimentology content is compensated by making 4th year Sedimentology mandatory.
Transition/Implementation	ERTH already does individual counselling each semester with all students in our programs by printing audits and offering to meet with students to ensure they stay on track. Any students affected by cancellation of courses they intended to take will be advised on which courses remain and when they can take them.

Program reviewer comments	**angelwagner (01/31/25 3:31 pm):** ERTH 3004 moved to section 2 as requested by James Mungall.

Key: 561

Program Change Request

Date Submitted: 01/23/25 12:26 pm

Viewing: **GBS-7Z : Earth Sciences B.Sc.**

Last approved: 04/22/24 2:53 pm

Last edit: 01/28/25 12:13 pm

Last modified by: robyngreen

Changes proposed by: jamesmungall

In Workflow

1. **ERTH ChairDir UG**
2. **SCI FCC**
3. **SCI FBoard**
4. **PRE SCCASP**
5. SCCASP
6. SQAPC
7. Senate
8. PRE CalEditor
9. CalEditor

Approval Path

1. 01/23/25 1:05 pm
   Tim Patterson
   (timpatterson): Approved
   for ERTH ChairDir UG
2. 02/03/25 9:12 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI FCC
3. 02/03/25 9:21 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI FBoard

History

1. Mar 21, 2014 by sandra
2. Aug 26, 2014 by vicki
3. Mar 4, 2015 by Sheila
   Thayer (sheilathayer)
4. Jan 5, 2016 by Sarah
   Adams-Aston
   (sarahadamsaston)
5. Feb 28, 2017 by Sarah
   Adams-Aston
   (sarahadamsaston)
6. Apr 5, 2017 by Sandra
   Bauer (sandrabauer)
7. Jan 9, 2018 by Sarah
   Adams-Aston
   (sarahadamsaston)
8. Feb 12, 2020 by Kristin
   Allen (kristinjallen)
9. Jun 24, 2020 by Sarah
   Cleary (sarahcleary)
10. Apr 22, 2024 by Kate
    Armstrong
    (katearmstrongfurniva)

Calendar Pages Using this Program	Earth Sciences
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	GBS-7Z
Level	Undergraduate
Faculty	Faculty of Science
Academic Unit	Department of Earth Sciences
Degree	Bachelor of Science
Title	Earth Sciences B.Sc.

Program Requirements

Earth Sciences
B.Sc. (15.0 credits)

A. Credits Included in the Major CGPA (8.0 credits)

1. ~~1.0 credit in:~~   ~~1.0~~

   ~~ERTH 1006 [0.0]~~   ~~Course ERTH 1006 Not Found~~

   ~~ERTH 1009 [0.0]~~   ~~Course ERTH 1009 Not Found~~

2. ~~3.5 credits in:~~   ~~3.5~~

1. 0.5 credit in: **0.5**

   ERTH 1002 [0.0]   The Earth and Life Odyssey: A Journey Through Billions of Years

2. 4.0 credits in: **4.0**

   ERTH 2102 [0.5]   Mineralogy to Petrology

   ~~ERTH 2104 [0.0]~~   ~~Course ERTH 2104 Not Found~~

   ERTH 2105 [0.5]   Geodynamics

   ERTH 2106 [0.0]   Geochemistry

   ERTH 2312 [0.5]   Paleontology

   ERTH 2314 [0.5]   Sedimentation and Stratigraphy

   ~~ERTH 2406 [0.0]~~   ~~Course ERTH 2406 Not Found~~

   ERTH 2407 [0.0]   Structural Geology

   ERTH 2419 [0.5]   On the Origin of Planets

   ERTH 2802 [0.5]   Field Geology I

3. 3.5 credits in: 3.5

   ~~ERTH 3003 [0.0]~~   ~~Course ERTH 3003 Not Found~~

   ERTH 3004 [0.0]   Igneous Petrology

   ERTH 3111 [0.5]   Vertebrate Evolution: Mammals, Reptiles, and Birds

   ERTH 3112 [0.5]   Vertebrate Evolution: Fish and Amphibians

   ERTH 3204 [0.5]   Mineral Deposits

   ERTH 3205 [0.5]   Physical Hydrogeology

   ~~ERTH 3206 [0.0]~~   ~~Course ERTH 3206 Not Found~~

   ERTH 3207 [0.5]   Metamorphic Petrology and Processes

   ERTH 3405 [0.5]   Geophysical Methods

   ~~ERTH 3806 [0.0]~~   ~~Course ERTH 3806 Not Found~~

   ERTH 3703 [0.0]   Isotope geochemistry and geochronology

B. Credits Not Included in the Major CGPA (7.0 credits)

4. **1.0 credit in:**   1.0

   MATH 1007 [0.5]   Elementary Calculus I

   MATH 1107 [0.5]   Linear Algebra I

5. **1.0 credit in:**   1.0

   CHEM 1001 [0.5]   General Chemistry I

   & CHEM 1002 [0.5]   General Chemistry II

6. **1.0 credit from:**   1.0

   PHYS 1007 [0.5]   Elementary University Physics I

   & PHYS 1008 [0.5]   Elementary University Physics II

   BIOL 1104 [0.5]   Foundations of Biology II

   & PHYS 1007 [0.5]   Elementary University Physics I

7. **0.5 credit in:**   0.5

   ERTH 2004 [0.5]   Maps, Satellites and the Geospatial Revolution

8. **0.5 credit in** Science Continuation course (not ERTH)   0.5

9. **0.5 credit in:**   0.5

   NSCI 1000 [0.0]   Course NSCI 1000 Not Found (or approved course outside the faculties of Science and Engineering and Design)

10. **1.5 credits in** approved courses outside the faculties of Science and Engineering and Design   1.5

11. **1.0 credit in** free electives   1.0

Total Credits   15.0

New Resources	No New Resources
Summary	The pair of first year courses ERTH 1006, 1009 is replaced by one first year course ERTH 1002; we accommodate this by adding 0.5 credit of ERTH at the 2000-level. ERTH 2406 and ERTH 3806 are both deleted and only one course ERTH 2407 is available to replace them, so we have added ERTH 2419 Origin of Planets Igneous petrology ERTH 2104 is moved to third year as ERTH 3004 Geochemistry ERTH 3003 is moved to second year as ERTH 2106. Isotope Geochemistry ERTH 4803 is moved to third year as ERTH 3703.
Rationale for change	Lack of teaching resources (retirements without replacement) and restrictions on class sizes forced us to remove one of the large first year courses, eliminate some of our Sedimentology offerings, and cut back on 4000-level courses with low enrolment. By condensing our 4000-level offerings into a set of 4 mandatory courses we ensure higher student numbers in each class and reduce the number of teaching assignments. Loss of third year Sedimentology content is compensated by making 4th year Sedimentology mandatory.
Transition/Implementation	ERTH already does individual counselling each semester with all students in our programs by printing audits and offering to meet with students to ensure they stay on track. Any students affected by cancellation of courses they intended to take will be advised on which courses remain and when they can take them.

Program reviewer
comments

Key: 566

Program Change Request

Date Submitted: 01/23/25 12:50 pm

Viewing: **BSCM-7T : Earth Sciences B.Sc. Major**

Last approved: 04/22/24 2:51 pm

Last edit: 01/31/25 3:34 pm

Last modified by: angelwagner

Changes proposed by: jamesmungall

Calendar Pages Using this Program	Earth Sciences
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	BSCM-7T
Level	Undergraduate
Faculty	Faculty of Science
Academic Unit	Department of Earth Sciences
Degree	Bachelor of Science Major
Title	Earth Sciences B.Sc. Major

Program Requirements

Earth Sciences
B.Sc. Major (20.0 credits)

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

~~1. 1.0 credit in:~~		~~1.0~~
~~ERTH 1006 [0.0]~~	~~Course ERTH 1006 Not Found~~	
~~ERTH 1009 [0.0]~~	~~Course ERTH 1009 Not Found~~	
~~2. 3.5 credits in:~~		~~3.5~~
1. 0.5 credit in:		0.5
ERTH 1002 [0.0]	The Earth and Life Odyssey: A Journey Through Billions of Years	
2. 4.5 credits in:		4.5
ERTH 2102 [0.5]	Mineralogy to Petrology	
~~ERTH 2104 [0.0]~~	~~Course ERTH 2104 Not Found~~	
ERTH 2105 [0.5]	Geodynamics	
ERTH 2106 [0.0]	Geochemistry	
ERTH 2312 [0.5]	Paleontology	
ERTH 2314 [0.5]	Sedimentation and Stratigraphy	
~~ERTH 2406 [0.0]~~	~~Course ERTH 2406 Not Found~~	
ERTH 2407 [0.0]	Structural Geology	
ERTH 2419 [0.5]	On the Origin of Planets	
ERTH 2802 [0.5]	Field Geology I	
ERTH 3004 [0.0]	Igneous Petrology	
3. 0.5 credit from:		0.5
~~ERTH 3203 [0.0]~~	~~Course ERTH 3203 Not Found~~	
~~ERTH 3206 [0.0]~~	~~Course ERTH 3206 Not Found~~	
ERTH 4006 [0.5]	Field Environmental Geobiology	
ERTH 4209 [0.5]	Mineral Exploration Field Geology	
ERTH 4807 [0.5]	Field Geology II	
4. 3.0 credits from:		3.0
~~ERTH 3003 [0.0]~~	~~Course ERTH 3003 Not Found~~	
ERTH 3111 [0.5]	Vertebrate Evolution: Mammals, Reptiles, and Birds	
ERTH 3112 [0.5]	Vertebrate Evolution: Fish and Amphibians	
ERTH 3204 [0.5]	Mineral Deposits	
ERTH 3205 [0.5]	Physical Hydrogeology	
ERTH 3207 [0.5]	Metamorphic Petrology and Processes	
ERTH 3405 [0.5]	Geophysical Methods	
~~ERTH 3806 [0.0]~~	~~Course ERTH 3806 Not Found~~	
~~5. 3.0 credits in ERTH at the 4000-level~~		~~3.0~~
ERTH 3703 [0.0]	Isotope geochemistry and geochronology	
5. 2.5 credits in ERTH at the 4000-level		**2.5**

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

6. 1.0 credit in:		1.0
MATH 1007 [0.5]	Elementary Calculus I	
MATH 1107 [0.5]	Linear Algebra I	
7. 1.0 credit in:		1.0
CHEM 1001 [0.5]	General Chemistry I	
& CHEM 1002 [0.5]	General Chemistry II	
8. 1.0 credit in:		1.0
PHYS 1007 [0.5]	Elementary University Physics I	
& PHYS 1008 [0.5]	Elementary University Physics II	
9. 0.5 credit in:		0.5
BIOL 1104 [0.5]	Foundations of Biology II	
10. 0.5 credit in:		0.5
COMP 1005 [0.5]	Introduction to Computer Science I	
11. 0.5 credit in:		0.5
STAT 2507 [0.5]	Introduction to Statistical Modeling I	
12. 0.5 credit in:		0.5
ERTH 2004 [0.5]	Maps, Satellites and the Geospatial Revolution	
13. 1.0 credit in Science Continuation Courses (not ERTH)		1.0
14. 0.5 credit in:		0.5
NSCI 1000 [0.0]	Course NSCI 1000 Not Found (or approved courses outside the Faculties of Science and Engineering and Design)	
15. 1.5 credits in approved courses outside the faculties of Science and Engineering and Design		1.5
16. 1.0 credits in free electives.		1.0
Total Credits		20.0

Note:

1. For Items 13-16, students admitted to the Minor in Business should substitute the requirements for the Minor. See the Business section of this Calendar.

New Resources	No New Resources
Summary	The pair of first year courses ERTH 1006, 1009 is replaced by one first year course ERTH 1002; we accommodate this by adding 0.5 credit of ERTH at the 2000-level.
	ERTH 2406 and ERTH 3806 are both deleted and only one course ERTH 2407 is available to replace them, so we have added ERTH 2419 Origin of

Planets to the pick list of courses
ERTH 3203 and ERTH 3206 are both deleted. One was a field school.
we have added the requirement that all students take at least one of our 4000-level field schools.
Igneous petrology ERTH 2104 is moved to third year as ERTH 3004
Geochemistry ERTH 3003 is moved to second year as ERTH 2106.
Isotope Geochemistry ERTH 4803 is moved to third year as ERTH 3703.

Rationale for change	Lack of teaching resources (retirements without replacement) and restrictions on class sizes forced us to remove one of the large first year courses, eliminate some of our Sedimentology offerings, and cut back on 4000-level courses with low enrolment. By condensing our 4000-level offerings into a set of 4 mandatory courses we ensure higher student numbers in each class and reduce the number of teaching assignments. Loss of third year Sedimentology content is compensated by making 4th year Sedimentology mandatory.
Transition/Implementation	ERTH already does individual counselling each semester with all students in our programs by printing audits and offering to meet with students to ensure they stay on track. Any students affected by cancellation of courses they intended to take will be advised on which courses remain and when they can take them.

Program reviewer comments	**angelwagner (01/30/25 2:15 pm):** Editorial: Credits in the major item 1 and item 5 adjusted to match proposed changes. **angelwagner (01/31/25 3:33 pm):** ERTH 3004 moved to section 2 as requested by James Mungall.

Key: 565

Program Change Request

Date Submitted: 01/23/25 12:37 pm

Viewing: **HBS-7X : Biology and Earth Sciences B.Sc. Combined Honours**

Last approved: 04/22/24 3:01 pm

Last edit: 01/28/25 12:16 pm

Last modified by: robyngreen

Changes proposed by: jamesmungall

In Workflow

1. **ERTH ChairDir UG**
2. **BIOL ChairDir UG**
3. **SCI FCC**
4. **SCI FBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. PRE CalEditor
10. CalEditor

Approval Path

1. 01/23/25 1:03 pm
   Tim Patterson
   (timpatterson): Approved
   for ERTH ChairDir UG
2. 01/27/25 9:12 am
   SarahAnne Szabototh
   (sarahanneszabototh):
   Approved for BIOL
   ChairDir UG
3. 02/03/25 9:12 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI FCC
4. 02/03/25 9:20 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI FBoard

History

1. Mar 13, 2014 by sandra
2. May 5, 2014 by sandra
3. May 5, 2014 by sandra
4. Aug 26, 2014 by vicki
5. Sep 12, 2014 by sandra
6. Jan 5, 2016 by
   ruthhilllapensee
7. Jan 23, 2017 by Sarah
   Adams-Aston
   (sarahadamsaston)
8. Apr 24, 2018 by Mike
   Labreque (mikelabreque)
9. Jul 7, 2020 by Sarah
   Cleary (sarahcleary)
10. Apr 22, 2024 by Kate
    Armstrong
    (katearmstrongfurniva)

Calendar Pages Using this Program	Biology Earth Sciences
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	HBS-7X
Level	Undergraduate
Faculty	Faculty of Science
Academic Unit	Department of Biology Department of Earth Sciences
Degree	Bachelor of Science Honours
Title	Biology and Earth Sciences B.Sc. Combined Honours

Program Requirements

Biology and Earth Sciences
B.Sc. Combined Honours (20.0 credits)

A. Credits Included in the Major CGPA (12.0 credits)

1. 1.5 credits in: 1.5

BIOL 1103 [0.5]	Foundations of Biology I
BIOL 1104 [0.5]	Foundations of Biology II
BIOL 2001 [0.5]	Animals: Form and Function

~~**2. 1.0 credit in:**~~   ~~1.0~~

~~ERTH 1006 [0.0]~~	~~Course ERTH 1006 Not Found~~
~~ERTH 1009 [0.0]~~	~~Course ERTH 1009 Not Found~~

2. 0.5 credit in: 0.5

ERTH 1002 [0.0]	The Earth and Life Odyssey: A Journey Through Billions of Years

3. 0.5 credit from: 0.5

BIOL 2600 [0.5]	Ecology
BIOL 3605 [0.5]	Field Course I

4. 3.5 credits in BIOL or BIOC, with at least 1.0 credit at the 3000-level and 1.0 credit at the 4000-level   3.5

~~**5. 3.0 credits in:**~~   ~~3.0~~

5. 3.5 credits in: 3.5

ERTH 2102 [0.5]	Mineralogy to Petrology
ERTH 2106 [0.0]	Geochemistry
ERTH 2312 [0.5]	Paleontology
ERTH 2314 [0.5]	Sedimentation and Stratigraphy
ERTH 3111 [0.5]	Vertebrate Evolution: Mammals, Reptiles, and Birds
ERTH 3112 [0.5]	Vertebrate Evolution: Fish and Amphibians
ERTH 3113 [0.5]	Geology of Human Origins

6. 0.5 credit from: 0.5

~~ERTH 3203 [0.0]~~	~~Course ERTH 3203 Not Found~~
~~ERTH 3206 [0.0]~~	~~Course ERTH 3206 Not Found~~
ERTH 4302 [0.0]	Frozen Earth: Unveiling the Snowball Earth Catastrophe

7. 1.0 credit in ERTH at the 4000-level   1.0

8. 1.0 credit from: 1.0

BIOL 4905 [1.0]	Honours Workshop
BIOL 4907 [1.0]	Honours Essay and Research Proposal
BIOL 4908 [1.0]	Honours Research Thesis
ERTH 4908 [1.0]	Honours Thesis
~~ERTH 4909 [0.5]~~	~~Research in Earth Sciences (and 0.5 credit in ERTH at the 4000-level)~~

B. Credits Not Included in the Major CGPA (8.0 credits)

9. 1.0 credit in: 1.0

MATH 1007 [0.5]	Elementary Calculus I
MATH 1107 [0.5]	Linear Algebra I

10. 1.0 credit in: 1.0

CHEM 1001 [0.5]	General Chemistry I
& CHEM 1002 [0.5]	General Chemistry II

11. 1.0 credit in: 1.0

PHYS 1007 [0.5]	Elementary University Physics I
& PHYS 1008 [0.5]	Elementary University Physics II

12. 0.5 credit in: 0.5

STAT 2507 [0.5]	Introduction to Statistical Modeling I

13. 0.5 credit in: 0.5

COMP 1005 [0.5]	Introduction to Computer Science I

14. 1.0 credit in Science Continuation courses   1.0

15. 2.0 credits in Approved Courses Outside the Faculties of Science and Engineering and Design (may include NSCI 1000)   2.0

16. 1.0 credit in free electives   1.0

Total Credits   20.0

New Resources	No New Resources
Summary	The pair of first year courses ERTH 1006, 1009 is replaced by one first year course ERTH 1002; we accommodate this by adding 0.5 credit of ERTH at the 2000-level. ERTH 3203 and ERTH 3206 are both deleted and replaced by ERTH 4302
Rationale for change	Lack of teaching resources (retirements without replacement) and restrictions on class sizes forced us to remove one of the large first year courses, eliminate some of our Sedimentology offerings, and cut back on 4000-level courses with low enrolment. By condensing our 4000-level offerings into a set of 4 mandatory courses we ensure higher student numbers in each class and reduce the number of teaching assignments. Loss of third year Sedimentology content is compensated by making 4th year Sedimentology mandatory.
Transition/Implementation	ERTH already does individual counselling each semester with all students in our programs by printing audits and offering to meet with students to ensure they stay on track. Any students affected by cancellation of courses they intended to take will be advised on which courses remain and when they can take them.
Program reviewer comments	

Key: 569

Program Change Request

Date Submitted: 12/09/24 10:16 pm

Viewing: **HBS-6Z : Chemistry and Physics B.Sc. Combined Honours**

Last approved: 04/25/24 12:10 pm

Last edit: 12/09/24 10:16 pm

Last modified by: DAVIDBROCK3

Changes proposed by: DAVIDBROCK3

In Workflow

1. **PHYS ChairDir UG**
2. **CHEM ChairDir UG**
3. **SCI FCC**
4. **SCI FBoard**
5. **PRE SCCASP**
6. SCCASP
7. PRE CalEditor
8. CalEditor

Approval Path

1. 10/10/24 1:20 pm
   Kevin Graham
   (kevingraham): Approved
   for PHYS ChairDir UG
2. 10/10/24 1:32 pm
   Sean Barry (seanbarry):
   Approved for CHEM
   ChairDir UG
3. 10/10/24 1:56 pm
   Natalie Phelan
   (nataliephelan): Rollback
   to CHEM ChairDir UG for
   SCI FCC
4. 10/23/24 1:01 pm
   David Brock
   (DAVIDBROCK3):
   Approved for CHEM
   ChairDir UG
5. 11/14/24 3:53 pm
   Maria Doria
   (mariadoria): Rollback to
   CHEM ChairDir UG for
   SCI FCC
6. 11/14/24 4:33 pm
   David Brock
   (DAVIDBROCK3):
   Approved for CHEM
   ChairDir UG
7. 11/21/24 2:46 pm
   Maria Doria
   (mariadoria): Approved
   for SCI FCC
8. 12/04/24 2:36 pm
   Maria Doria
   (mariadoria): Approved
   for SCI FBoard
9. 12/09/24 3:35 pm
   Angel Wagner
   (angelwagner): Rollback
   to Initiator
10. 12/10/24 2:36 pm
    Joanne Martin
    (joannemartin):
    Approved for PHYS
    ChairDir UG
11. 12/11/24 10:38 am
    David Brock
    (DAVIDBROCK3):
    Approved for CHEM
    ChairDir UG
12. 01/16/25 10:07 am
    Maria Doria
    (mariadoria): Approved
    for SCI FCC
13. 02/03/25 9:47 am
    Maria Doria
    (mariadoria): Approved
    for SCI FBoard

History

1. Mar 21, 2014 by sandra
2. Mar 14, 2017 by Sandra
   Bauer (sandrabauer)

Calendar Pages Using this Program	[Chemistry](#) [Physics](#)
Effective Date	2025-26
Workflow	minormod
Program Code	HBS-6Z
Level	Undergraduate
Faculty	Faculty of Science
Academic Unit	Department of Chemistry Department of Physics
Degree	Bachelor of Science Honours
Title	Chemistry and Physics B.Sc. Combined Honours

Program Requirements

Chemistry and Physics
B.Sc. Combined Honours (20.0 credits)

A. Credits Included in the Major CGPA (13.0 credits)

1. **1.0 credit from:**   1.0

   PHYS 1001 [0.5]   Foundations of Physics I
   & PHYS 1002 [0.5]   Foundations of Physics II (recommended)
   PHYS 1003 [0.5]   Introductory Mechanics and Thermodynamics
   & PHYS 1004 [0.5]   Introductory Electromagnetism and Wave Motion
   PHYS 1007 [0.5]   Elementary University Physics I
   & PHYS 1008 [0.5]   Elementary University Physics II (with an average grade of B- or higher)

2. **3.5 credits in:**   3.5

   PHYS 2007 [0.0]   Second Year Physics Laboratory: Selected Experiments and Seminars
   PHYS 2212 [0.0]   Wave Mechanics and Thermodynamics
   PHYS 2305 [0.5]   Electricity and Magnetism
   PHYS 2604 [0.5]   Modern Physics I
   PHYS 2605 [0.0]   Modern Physics I
   PHYS 3007 [0.5]   Third Year Physics Laboratory: Selected Experiments and Seminars
   PHYS 3701 [0.5]   Elements of Quantum Mechanics
   PHYS 3807 [0.5]   Mathematical Physics I

3. **1.5 credits from:**   1.5

   PHYS 3308 [0.5]   Electromagnetism
   PHYS 3606 [0.5]   Modern Physics II
   PHYS 3802 [0.5]   Advanced Dynamics
   PHYS 4707 [0.5]   Introduction to Quantum Mechanics I

4. **4.5 credits in:**   4.5

   CHEM 1011 [0.5]   Enriched General Chemistry 1
   CHEM 1012 [0.5]   Enriched General Chemistry 2
   CHEM 2103 [0.5]   Physical Chemistry I
   CHEM 2104 [0.5]   Physical Chemistry II
   CHEM 2203 [0.5]   Organic Chemistry I
   CHEM 2204 [0.5]   Organic Chemistry II
   CHEM 2501 [0.5]   Introduction to Inorganic and Bioinorganic Chemistry
   CHEM 3102 [0.5]   Methods in Computational Chemistry
   CHEM 3503 [0.5]   Inorganic Chemistry I

5. **0.5 credit from:**   0.5

   CHEM 3107 [0.5]   Experimental Methods in Nanoscience

6. **1.0 credit in** CHEM at the 4000-level   1.0

7. 1.0 credit from:		1.0
CHEM 4908 [1.0]	Research Project and Seminar	
PHYS 4909 [1.0]	Fourth-Year Project	
PHYS 4907 plus 0.5 credit in PHYS at the 4000-level		
PHYS 4908 plus 0.5 credit in PHYS at the 4000-level		

B. Credits Not Included in the Major CGPA (7.0 credits)

9. 3.0 credits in:		3.0
8. 3.0 credits in:		3.0
PHYS 2202 [0.5]	Wave Motion and Optics	
MATH 1004 [0.5]	Calculus for Engineering or Physics	
MATH 1005 [0.5]	Differential Equations and Infinite Series for Engineering or Physics	
MATH 1104 [0.5]	Linear Algebra for Engineering or Science	
MATH 2004 [0.5]	Multivariable Calculus for Engineering or Physics	
STAT 3502 [0.5]	Probability and Statistics	
MATH 3705 [0.5]	Mathematical Methods I	
9. 0.5 credit from:		0.5
COMP 1005 [0.5]	Introduction to Computer Science I	
ECOR 1606 [0.5]	Problem Solving and Computers	
10. 0.5 credit from:		0.5
MATH 3800 [0.5]	Mathematical Modeling and Computational Methods	
ECOR 2606 [0.5]	Numerical Methods	
12. 0.5 credit from:		0.5
NSCI 1000 [0.0]	Course NSCI 1000 Not Found	
11. 0.5 credit in:		0.5
ISAP 1000 [0.5]	Seminar in Science	
Approved courses outside the faculties of Science and Engineering and Design		
12. 1.5 credits in approved courses outside the faculties of Science and Engineering and Design		1.5
13. 1.0 credit in free electives.		1.0
Total Credits		20.0

New Resources	No New Resources
Summary	1) #2 - change to 3.5 credits 2) Add new courses PHYS 2212 (hybrid of 2202 + 2401), 2605 (replaces 2604), 2007 (2nd yr. lab), PHYS 2305 & 2801 stays. 3) remove #4 - 0.5 cr in PHYS at 4000 level 4) after completing #3 above – renumber everything afterwards
Rationale for change	need to accommodate extra physics course
Transition/Implementation	no impact
Program reviewer comments	**nataliephelan (10/10/24 1:56 pm):** Rollback: As requested! **mariadoria (11/14/24 3:53 pm):** Rollback: For edits **angelwagner (12/09/24 3:35 pm):** Rollback: Requested by J. Wallace.

Key: 589

Program Change Request

Date Submitted: 01/23/25 12:35 pm

Viewing: **HBS-7V : Earth Sciences and Physical Geography B.Sc. Combined Honours**

Last approved: 04/22/24 2:58 pm

Last edit: 01/28/25 12:21 pm

Last modified by: robyngreen

Changes proposed by: jamesmungall

In Workflow

1. **GEOG ChairDir UG**
2. **ERTH ChairDir UG**
3. **SCI FCC**
4. **SCI FBoard**
5. **PRE SCCASP**
6. SCCASP
7. SQAPC
8. Senate
9. PRE CalEditor
10. CalEditor

Approval Path

1. 01/28/25 12:55 pm Murray Richardson (murrayrichardson): Approved for GEOG ChairDir UG
2. 01/28/25 1:29 pm Tim Patterson (timpatterson): Approved for ERTH ChairDir UG
3. 02/03/25 9:12 pm Julia Wallace (juliawallace): Approved for SCI FCC
4. 02/03/25 9:20 pm Julia Wallace (juliawallace): Approved for SCI FBoard

History

1. Mar 21, 2014 by sandra
2. Aug 26, 2014 by vicki
3. Mar 4, 2015 by Sheila Thayer (sheilathayer)
4. Jan 5, 2016 by Sarah Adams-Aston (sarahadamsaston)
5. Jan 13, 2017 by Sandra Bauer (sandrabauer)
6. Jan 9, 2018 by Sheila Thayer (sheilathayer)
7. Feb 7, 2020 by Kristin Allen (kristinjallen)
8. Apr 22, 2024 by Kate Armstrong (katearmstrongfurniva)

Calendar Pages Using this Program	Earth Sciences Geography
Effective Date	2025-26
Workflow	majormod minormod
Program Code	HBS-7V
Level	Undergraduate
Faculty	Faculty of Science
Academic Unit	Department of Earth Sciences Department of Geography and Environmental Studies
Degree	Bachelor of Science Honours
Title	Earth Sciences and Physical Geography B.Sc. Combined Honours

Program Requirements

Earth Sciences and Physical Geography
B.Sc. Combined Honours (20.0 credits)

A. Credits Included in the Major CGPA (13.0 credits)

1. 1.0 credit in: 1.0
- ~~ERTH 1006 [0.0]~~   ~~Course ERTH 1006 Not Found~~
- ERTH 1002 [0.0]   The Earth and Life Odyssey: A Journey Through Billions of Years
- GEOG 1010 [0.5]   Global Environmental Systems

2. 1.0 credit in: 1.0
- GEOG 2013 [0.5]   Weather and Water
- GEOG 2014 [0.5]   The Earth's Surface

~~3. 2.0 credits in:~~   ~~2.0~~

3. 2.5 credits in: **2.5**
- ERTH 2102 [0.5]   Mineralogy to Petrology
- ~~ERTH 2104 [0.0]~~   ~~Course ERTH 2104 Not Found~~
- ERTH 2106 [0.0]   Geochemistry
- ERTH 2312 [0.5]   Paleontology
- ERTH 2314 [0.5]   Sedimentation and Stratigraphy
- ~~ERTH 2406 [0.0]~~   ~~Course ERTH 2406 Not Found~~
- ERTH 2407 [0.0]   Structural Geology

4. 0.5 credit in: 0.5
- ERTH 2802 [0.5]   Field Geology I

~~5. 1.5 credits in:~~   ~~1.5~~
- ~~ERTH 3003 [0.0]~~   ~~Course ERTH 3003 Not Found~~

5. 1.0 credits in: **1.0**
- ERTH 3004 [0.0]   Igneous Petrology
- ERTH 3405 [0.5]   Geophysical Methods
- ~~ERTH 3806 [0.0]~~   ~~Course ERTH 3806 Not Found~~

6. 0.5 credit from: 0.5
- ERTH 3205 [0.5]   Physical Hydrogeology
- GEOG 3103 [0.5]   Watershed Hydrology

7. 1.0 credit in: 1.0
- ERTH 2004 [0.5]   Maps, Satellites and the Geospatial Revolution
- GEOM 3002 [0.5]   Introduction to Remote Sensing

8. 2.0 credits from: 2.0
- GEOG 3003 [0.5]   Quantitative Geography
- GEOG 3010 [0.5]   Field Methods in Physical Geography
- GEOG 3102 [0.5]   Geomorphology
- GEOG 3104 [0.5]   Principles of Biogeography
- GEOG 3105 [0.5]   Climate and Atmospheric Change
- GEOG 3106 [0.5]   Aquatic Science and Management
- GEOG 3108 [0.5]   Soil Properties

9. 0.5 credit from: 0.5
- ~~ERTH 3203 [0.0]~~   ~~Course ERTH 3203 Not Found~~
- ~~ERTH 3206 [0.0]~~   ~~Course ERTH 3206 Not Found~~
- ERTH 4302 [0.0]   Frozen Earth: Unveiling the Snowball Earth Catastrophe

10. 1.0 credit in Science Geography or Geomatics courses at the 2000-level or above   1.0

11. 1.0 credit in Earth Sciences, Science Geography or Geomatics courses at the 4000-level   1.0

12. 1.0 credit from: 1.0
- ERTH 4908 [1.0]   Honours Thesis
- OR
- ~~ERTH 4909 [0.5]~~   ~~Research in Earth Sciences~~
- GEOG 4005 [0.5]   Directed Studies in Geography
- ~~and 0.5 credit in ERTH, GEOG or GEOM at the 4000-level~~
- ~~OR~~
- and 0.5 credit in ERTH, GEOG or GEOM at the 4000-level
- OR
- GEOG 4906 [1.0]   Honours Research Project

B. Credits Not Included in the Major CGPA (7.0 credits)

13. 1.0 credit in: 1.0
- MATH 1007 [0.5]   Elementary Calculus I
- MATH 1107 [0.5]   Linear Algebra I

14. 1.0 credit in: 1.0
- CHEM 1001 [0.5]   General Chemistry I
- & CHEM 1002 [0.5]   General Chemistry II

15. 1.0 credit in: 1.0
- PHYS 1007 [0.5]   Elementary University Physics I
- & PHYS 1008 [0.5]   Elementary University Physics II

16. 0.5 credit from: 0.5
- GEOG 2006 [0.5]   Introduction to Quantitative Research
- STAT 2507 [0.5]   Introduction to Statistical Modeling I

17. 0.5 credit in: 0.5

COMP 1005 [0.5]   Introduction to Computer Science I

18. 0.5 credit in approved electives (see list below)   0.5

19. 0.5 credit in: 0.5

NSCI 1000 [0.0]   Course NSCI 1000 Not Found (or approved course outside of the faculties of Science and Engineering and Design)

20. 1.5 credits in approved courses outside of the faculties of Science and Engineering and Design   1.5

21. 0.5 credit in free elective   0.5

Total Credits   20.0

New Resources	No New Resources
Summary	replace ERTH 1006 with 1002 Igneous petrology ERTH 2104 is moved to third year as ERTH 3004 Geochemistry ERTH 3003 is moved to second year as ERTH 2106. ERTH 2406 and ERTH 3806 are both deleted and only one course ERTH 2407 is available to replace them. ERTH 3203 and ERTH 3206 are both deleted and replaced with ERTH 4302
Rationale for change	Lack of teaching resources (retirements without replacement) and restrictions on class sizes forced us to remove one of the large first year courses, eliminate some of our Sedimentology offerings, and cut back on 4000-level courses with low enrolment. By condensing our 4000-level offerings into a set of 4 mandatory courses we ensure higher student numbers in each class and reduce the number of teaching assignments. Loss of third year Sedimentology content is compensated by making 4th year Sedimentology mandatory.
Transition/Implementation	ERTH already does individual counselling each semester with all students in our programs by printing audits and offering to meet with students to ensure they stay on track. Any students affected by cancellation of courses they intended to take will be advised on which courses remain and when they can take them.
Program reviewer comments	

Key: 567

Program Change Request

Date Submitted: 01/23/25 12:32 pm

Viewing: **HBS-7T2 : Earth Sciences with Concentration in Environmental Geosciences**

Last approved: 01/23/25 7:24 am

Last edit: 01/28/25 12:17 pm

Last modified by: robyngreen

[Changes proposed by: jamesmungall](#)

Approval Path

1. 01/23/25 1:30 pm
   Tim Patterson
   (timpatterson): Approved
   for ERTH ChairDir UG
2. 02/03/25 9:13 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI FCC
3. 02/03/25 9:21 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI FBoard

History

1. Jan 23, 2025 by Kristin
   Allen (kristinjallen)

Effective Date	2025-26
Workflow	majormod
Program Code	HBS-7T2
Level	Undergraduate
Faculty	Faculty of Science
Academic Unit	Department of Earth Sciences
Degree	Bachelor of Science Honours
Title	Earth Sciences with Concentration in Environmental Geosciences

Program Requirements

Earth Sciences with Concentration in Environmental Geosciences
B.Sc. Honours (20.5 credits)

A. Credits Included in the Major CGPA (11.5 credits)

1. ~~1.0 credit in:~~		~~1.0~~
~~ERTH 1006 [0.0]~~	~~Course ERTH 1006 Not Found~~	
~~ERTH 1009 [0.0]~~	~~Course ERTH 1009 Not Found~~	
2. ~~3.5 credits in:~~		~~3.5~~
1. 0.5 credit in:		0.5
ERTH 1002 [0.0]	The Earth and Life Odyssey: A Journey Through Billions of Years	
2. 4.0 credits in:		4.0
ERTH 2102 [0.5]	Mineralogy to Petrology	
~~ERTH 2104 [0.0]~~	~~Course ERTH 2104 Not Found~~	
ERTH 2105 [0.5]	Geodynamics	
ERTH 2106 [0.0]	Geochemistry	
ERTH 2314 [0.5]	Sedimentation and Stratigraphy	
~~ERTH 2406 [0.0]~~	~~Course ERTH 2406 Not Found~~	
ERTH 2407 [0.0]	Structural Geology	
ERTH 2419 [0.5]	On the Origin of Planets	

ERTH 2802 [0.5]	Field Geology I	
GEOG 2013 [0.5]	Weather and Water	
3. 1.0 credit from:		1.0
ERTH 2312 [0.5]	Paleontology	
ERTH 3204 [0.5]	Mineral Deposits	
4. 0.5 credit from:		0.5
ERTH 3203 [0.0]	Course ERTH 3203 Not Found	
ERTH 3206 [0.0]	Course ERTH 3206 Not Found	
ERTH 4302 [0.0]	Frozen Earth: Unveiling the Snowball Earth Catastrophe	
5. 2.5 credits in:		2.5
ERTH 3003 [0.0]	Course ERTH 3003 Not Found	
ERTH 3004 [0.0]	Igneous Petrology	
ERTH 3205 [0.5]	Physical Hydrogeology	
ERTH 3207 [0.5]	Metamorphic Petrology and Processes	
ERTH 3405 [0.5]	Geophysical Methods	
ERTH 3806 [0.0]	Course ERTH 3806 Not Found	
GEOG 3108 [0.5]	Soil Properties	
6. 0.5 credit in:		0.5
ERTH 4006 [0.5]	Field Environmental Geobiology	
7. 0.5 credit from:		0.5
ERTH 4008 [0.5]	Topics in Paleobiology and Evolution	
ERTH 4206 [0.5]	Contaminant and Remediation Hydrogeology	
ERTH 4815 [0.5]	Natural Hazards in Canada	
8. 1.0 credit in ERTH at the 4000-level		1.0
9. 1.0 credit from:		1.0
ERTH 4908 [1.0]	Honours Thesis (in the field of Environmental Geosciences)	
OR		
ERTH 4909 [0.5]	Research in Earth Sciences (in the field of Environmental Geosciences)	
and 0.5 credit in ERTH at the 4000-level		
*See Note 1 below		

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

10. 1.0 credit in:		1.0
MATH 1007 [0.5]	Elementary Calculus I	
MATH 1107 [0.5]	Linear Algebra I	
11. 1.0 credit in:		1.0
CHEM 1001 [0.5]	General Chemistry I	
CHEM 1002 [0.5]	General Chemistry II	
12. 1.0 credit in:		1.0
PHYS 1007 [0.5]	Elementary University Physics I	
PHYS 1008 [0.5]	Elementary University Physics II	
13. 2.0 credits in:		2.0
BIOL 1103 [0.5]	Foundations of Biology I	
BIOL 1104 [0.5]	Foundations of Biology II	
COMP 1005 [0.5]	Introduction to Computer Science I	
STAT 2507 [0.5]	Introduction to Statistical Modeling I	
14. 1.0 credit in Science Continuation Courses (not ERTH)		1.0
BIOL 2600 [0.5]	Ecology	
BIOL 3601 [0.5]	Ecosystems and Environmental Change	
CHEM 2302 [0.5]	Analytical Chemistry I	
CHEM 2303 [0.5]	Analytical Chemistry II	
CHEM 2800 [0.5]	Foundations for Environmental Chemistry	
CHEM 3305 [0.5]	Advanced Analytical Chemistry Laboratory	
CHEM 3800 [0.5]	The Chemistry of Environmental Pollutants	
GEOG 3103 [0.5]	Watershed Hydrology	
GEOG 3104 [0.5]	Principles of Biogeography	
GEOG 3105 [0.5]	Climate and Atmospheric Change	
GEOG 3106 [0.5]	Aquatic Science and Management	
15. 1.5 credits in:		1.5
ERTH 2004 [0.5]	Maps, Satellites and the Geospatial Revolution	
ERTH 2402 [0.5]	Climate Change: An Earth Sciences Perspective	
PHIL 2380 [0.5]	Introduction to Environmental Ethics	
16. 1.0 credit in approved courses outside the faculty of Science and Engineering and Design		1.0
17. 0.5 credit in free electives.		0.5
Total Credits		20.5

Note 1: the thesis (ERTH 4908) or research project (ERTH 4909) is to be undertaken in the field of Environmental Geoscience.

New Resources	No New Resources
Summary	The pair of first year courses ERTH 1006, 1009 is replaced by one first year course ERTH 1002; we accommodate this by adding 0.5 credit of ERTH at the 2000-level. ERTH 2406 and ERTH 3806 are both deleted and only one course ERTH 2407 is available to replace them, so we have added ERTH 2419 Origin of Planets to the required list of courses ERTH 3203 and ERTH 3206 are both deleted. One was a field school.

we have added the requirement that all students take at least one of our 4000-level field schools.
Igneous petrology ERTH 2104 is moved to third year as ERTH 3004
Geochemistry ERTH 3003 is moved to second year as ERTH 2106.
Isotope Geochemistry ERTH 4803 is moved to third year as ERTH 3703.

Rationale for change	Lack of teaching resources (retirements without replacement) and restrictions on class sizes forced us to remove one of the large first year courses, eliminate some of our Sedimentology offerings, and cut back on 4000-level courses with low enrolment. By condensing our 4000-level offerings into a set of 4 mandatory courses we ensure higher student numbers in each class and reduce the number of teaching assignments. Loss of third year Sedimentology content is compensated by making 4th year Sedimentology mandatory.
Transition/Implementation	ERTH already does individual counselling each semester with all students in our programs by printing audits and offering to meet with students to ensure they stay on track. Any students affected by cancellation of courses they intended to take will be advised on which courses remain and when they can take them.

Program reviewer
comments

Key: 2226

Program Change Request

Date Submitted: 02/06/25 2:14 pm

Viewing: **HBS-8S : Earth Sciences with Concentration in Finance: Resource Valuation**

Last approved: 04/22/24 10:53 am

Last edit: 02/06/25 2:14 pm

Last modified by: sheilathayer

Changes proposed by: sheilathayer

Approval Path

1. 02/06/25 2:23 pm Tim Patterson (timpatterson): Approved for ERTH ChairDir UG
2. 02/07/25 1:46 pm Julia Wallace (juliawallace): Approved for SCI Dean
3. 02/07/25 1:48 pm Julia Wallace (juliawallace): Approved for SCI FCC
4. 02/07/25 1:52 pm Julia Wallace (juliawallace): Approved for SCI FBoard

History

1. Mar 4, 2015 by Sheila Thayer (sheilathayer)
2. Apr 21, 2015 by vickisaveland
3. May 12, 2015 by sandra
4. May 12, 2015 by sandra
5. Jan 5, 2016 by Sarah Adams-Aston (sarahadamsaston)
6. May 19, 2016 by Sandra Bauer (sandrabauer)
7. May 19, 2016 by Sandra Bauer (sandrabauer)
8. May 19, 2016 by Sandra Bauer (sandrabauer)
9. May 19, 2016 by Sandra Bauer (sandrabauer)
10. Mar 8, 2017 by Sarah Adams-Aston (sarahadamsaston)
11. Jan 9, 2018 by Sarah Adams-Aston (sarahadamsaston)
12. Apr 17, 2019 by Mike Labreque (mikelabreque)
13. Feb 7, 2020 by Kristin Allen (kristinjallen)
14. Jul 25, 2022 by Natalie Phelan (nataliephelan)
15. Apr 20, 2023 by Kristin Allen (kristinjallen)
16. Apr 22, 2024 by Kate Armstrong (katearmstrongfurniva)

Calendar Pages Using this Program	Earth Sciences
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	HBS-8S

Level	Undergraduate
Faculty	Faculty of Science
Academic Unit	Department of Earth Sciences
Degree	Bachelor of Science Honours
Title	Earth Sciences with Concentration in Finance: Resource Valuation

Program Requirements

Earth Sciences with Concentration in Finance: Resource Valuation
B.Sc. Honours (21.0 credits)

A. Credits included in the Major CGPA (10.5 credits)

1. 1.0 credit in: 1.0
- ERTH 1006 [0.0]   Course ERTH 1006 Not Found
- ERTH 1009 [0.0]   Course ERTH 1009 Not Found

1. 0.5 credit in: **0.5**
- ERTH 1002 [0.0]   The Earth and Life Odyssey: A Journey Through Billions of Years

2. 3.0 credits in: 3.0
- ERTH 2102 [0.5]   Mineralogy to Petrology
- ERTH 2104 [0.0]   Course ERTH 2104 Not Found
- ERTH 2105 [0.5]   Geodynamics
- ERTH 2106 [0.0]   Geochemistry
- ERTH 2314 [0.5]   Sedimentation and Stratigraphy
- ERTH 2406 [0.0]   Course ERTH 2406 Not Found
- ERTH 2407 [0.0]   Structural Geology
- ERTH 2802 [0.5]   Field Geology I

3. 0.5 credit from: 0.5
- ERTH 3203 [0.0]   Course ERTH 3203 Not Found
- ERTH 3206 [0.0]   Course ERTH 3206 Not Found (See Note, below)
- ERTH 4006 [0.5]   Field Environmental Geobiology
- ERTH 4209 [0.5]   Mineral Exploration Field Geology
- ERTH 4807 [0.5]   Field Geology II

4. 3.0 credits in: 3.0
- ERTH 3003 [0.0]   Course ERTH 3003 Not Found
- ERTH 3004 [0.0]   Igneous Petrology
- ERTH 3204 [0.5]   Mineral Deposits
- ERTH 3205 [0.5]   Physical Hydrogeology
- ERTH 3207 [0.5]   Metamorphic Petrology and Processes
- ERTH 3405 [0.5]   Geophysical Methods
- ERTH 3806 [0.0]   Course ERTH 3806 Not Found (See Note, below)

5. 0.5 credit in: 0.5
- ERTH 4303 [0.0]   Course ERTH 4303 Not Found

6. 1.5 credits in ERTH at the 4000-level   1.5
- ERTH 3703 [0.0]   Isotope geochemistry and geochronology

6. 2.0 credits in ERTH at the 4000-level   **2.0**

7. 1.0 credit from: 1.0
- ERTH 4909 [0.5]   Research in Earth Sciences
   and 0.5 credit in ERTH at the 4000-level
   -
- ERTH 4910 [0.0]   Course ERTH 4910 Not Found
- ERTH 4908 [1.0]   Honours Thesis

B. Credits Not Included in the Major CGPA (10.5 credits)

8. 1.0 credit in: 1.0
- MATH 1007 [0.5]   Elementary Calculus I
- MATH 1107 [0.5]   Linear Algebra I

9. 1.0 credit in: 1.0
- CHEM 1001 [0.5]   General Chemistry I
- & CHEM 1002 [0.5]   General Chemistry II

10. 0.5 credit in: 0.5
- PHYS 1007 [0.5]   Elementary University Physics I

11. 0.5 credit from: 0.5
- BIOL 1104 [0.5]   Foundations of Biology II
- COMP 1005 [0.5]   Introduction to Computer Science I

12. 0.5 credit in: 0.5
- ERTH 2004 [0.5]   Maps, Satellites and the Geospatial Revolution

13. 1.0 credit in: 1.0
- STAT 2507 [0.5]   Introduction to Statistical Modeling I
- & STAT 2509 [0.5]   Introduction to Statistical Modeling II

14. 1.5 credit in: 1.5

    ECON 1001 [0.5]   Introduction to Microeconomics
    & ECON 1002 [0.5]   Introduction to Macroeconomics
    ECON 2009 [0.5]   Managerial Economics

15. 3.0 credits in: 3.0

    BUSI 1001 [0.5]   Principles of Financial Accounting
    BUSI 1002 [0.5]   Management Accounting
    BUSI 2503 [0.5]   Introduction to Finance
    BUSI 3500 [0.5]   Applied Corporate Finance
    BUSI 3502 [0.5]   Investments
    BUSI 3512 [0.5]   Derivatives

16. 1.5 credit from: 1.5

    ECON 3803 [0.5]   The Economics of Natural Resources
    BUSI 4500 [0.5]   Advanced Corporate Finance
    BUSI 4510 [0.5]   Mergers and Acquisitions

Total Credits   20.5

New Resources	No New Resources
Summary	Revise to accommodate course availability. This program is being deleted but is revised for current calendar requirements.
Rationale for change	Currently the Department of Earth Sciences offers 12 different programs and concentrations. With so many options students are confused with exactly which program is right for them, but it has led to most students gravitating to only a few of the offered programs. Earth Sciences with a concentration in Finance is an example of a program with no enrollment. Moreover, in surveys of student satisfaction this is an example where satisfaction is low due to complex scheduling, a lack of a cohort for students in such a small program and challenges ensuring that all program requirements can consistently be met. Therefore, we would like to streamline our offerings and reduce confusion for students and direct students toward programs with higher enrollment with much higher degree satisfaction.
Transition/Implementation	There are no students enrolled in this program and we will not admit new students into this program so there will be no impact on current students.
Program reviewer comments	

Key: 1086

Program Change Request

Date Submitted: 02/06/25 2:26 pm

Viewing: **HBS-8R : Earth Sciences with Concentration in Geophysics B.Sc. Honours**

Last approved: 04/22/24 2:50 pm

Last edit: 02/06/25 2:26 pm

Last modified by: sheilathayer

<u>Changes proposed by: sheilathayer</u>

In Workflow

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

Approval Path

1. 02/06/25 2:32 pm
   Tim Patterson
   (timpatterson): Approved
   for ERTH ChairDir UG
2. 02/07/25 1:46 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI Dean
3. 02/07/25 1:49 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI FCC
4. 02/07/25 1:52 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI FBoard

History

1. Mar 21, 2014 by sandra
2. Aug 26, 2014 by vicki
3. Mar 4, 2015 by sandra
4. Jan 5, 2016 by Sarah
   Adams-Aston
   (sarahadamsaston)
5. Apr 5, 2017 by Sandra
   Bauer (sandrabauer)
6. Jan 9, 2018 by Sarah
   Adams-Aston
   (sarahadamsaston)
7. Apr 24, 2018 by Mike
   Labreque (mikelabreque)
8. Apr 24, 2018 by Mike
   Labreque (mikelabreque)
9. Feb 7, 2020 by Kristin
   Allen (kristinjallen)
10. Apr 20, 2023 by Kristin
    Allen (kristinjallen)
11. Apr 22, 2024 by Kate
    Armstrong
    (katearmstrongfurniva)

Calendar Pages Using this Program	Earth Sciences
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	HBS-8R
Level	Undergraduate
Faculty	Faculty of Science
Academic Unit	Department of Earth Sciences
Degree	Bachelor of Science Honours
Title	Earth Sciences with Concentration in Geophysics B.Sc. Honours

Program Requirements

Earth Sciences with Concentration in Geophysics
B.Sc. Honours (20.0 credits)

A. Credits Included in the Major CGPA (10.5 credits)

1. 1.0 credit in:		1.0
ERTH 1006 [0.0]	Course ERTH 1006 Not Found	
ERTH 1009 [0.0]	Course ERTH 1009 Not Found	
1. 0.5 credit in:		0.5
ERTH 1002 [0.0]	The Earth and Life Odyssey: A Journey Through Billions of Years	
2. 1.0 credit in:		1.0
MATH 1004 [0.5]	Calculus for Engineering or Physics	
MATH 1104 [0.5]	Linear Algebra for Engineering or Science	
3. 1.0 credit in:		1.0
PHYS 1001 [0.5]	Foundations of Physics I	
& PHYS 1002 [0.5]	Foundations of Physics II (recommended)	
OR		
PHYS 1003 [0.5]	Introductory Mechanics and Thermodynamics	
& PHYS 1004 [0.5]	Introductory Electromagnetism and Wave Motion	
OR		
PHYS 1007 [0.5]	Elementary University Physics I	
& PHYS 1008 [0.5]	Elementary University Physics II (with an average grade of B- or higher)	
4. 3.0 credits in:		3.0
4. 3.5 credits in:		3.5
ERTH 2102 [0.5]	Mineralogy to Petrology	
ERTH 2104 [0.0]	Course ERTH 2104 Not Found	
ERTH 2105 [0.5]	Geodynamics	
ERTH 2106 [0.0]	Geochemistry	
ERTH 2314 [0.5]	Sedimentation and Stratigraphy	
ERTH 2406 [0.0]	Course ERTH 2406 Not Found	
ERTH 2407 [0.0]	Structural Geology	
ERTH 2419 [0.5]	On the Origin of Planets	
ERTH 2802 [0.5]	Field Geology I	
5. 0.5 credit from:		0.5
ERTH 3203 [0.0]	Course ERTH 3203 Not Found	
ERTH 3206 [0.0]	Course ERTH 3206 Not Found	
ERTH 4006 [0.5]	Field Environmental Geobiology	
6. 2.5 credits in:		2.5
ERTH 3003 [0.0]	Course ERTH 3003 Not Found	
ERTH 3004 [0.0]	Igneous Petrology	
ERTH 3204 [0.5]	Mineral Deposits	
ERTH 3205 [0.5]	Physical Hydrogeology	
ERTH 3405 [0.5]	Geophysical Methods	
ERTH 3806 [0.0]	Course ERTH 3806 Not Found	
ERTH 3703 [0.0]	Isotope geochemistry and geochronology	
7. 0.5 credit in:		0.5
ERTH 4707 [0.0]	Course ERTH 4707 Not Found	
ERTH 4815 [0.5]	Natural Hazards in Canada	
8. 1.0 credit from:		1.0
ERTH 4908 [1.0]	Honours Thesis	
ERTH 4909 [0.5]	Research in Earth Sciences	
and 0.5 credit in ERTH at the 4000-level		

B. Credits Not Included in the Major CGPA (9.5 credits)

9. 0.5 credit from:		0.5
COMP 1005 [0.5]	Introduction to Computer Science I	
COMP 1006 [0.5]	Introduction to Computer Science II	
10. 1.0 credit in:		1.0
CHEM 1001 [0.5]	General Chemistry I	
& CHEM 1002 [0.5]	General Chemistry II	
11. 1.0 credit in:		1.0
MATH 1005 [0.5]	Differential Equations and Infinite Series for Engineering or Physics	
STAT 2507 [0.5]	Introduction to Statistical Modeling I	
12. 0.5 credit in:		0.5
ERTH 2004 [0.5]	Maps, Satellites and the Geospatial Revolution	
13. 4.5 credits from:		4.5
COMP 2402 [0.5]	Abstract Data Types and Algorithms	
COMP 2406 [0.5]	Fundamentals of Web Applications	
ERTH 2312 [0.5]	Paleontology	
ERTH 3207 [0.5]	Metamorphic Petrology and Processes	
ERTH 4003 [0.5]	Directed Studies in Earth Sciences	
ERTH 4004 [0.5]	Special Topics in Earth Sciences	
ERTH 4107 [0.5]	Geotechnical Mechanics	

ERTH 4206 [0.5]	Contaminant and Remediation Hydrogeology
ERTH 4209 [0.5]	Mineral Exploration Field Geology
ERTH 4303 [0.0]	Course ERTH 4303 Not Found
ERTH 4305 [0.5]	Advanced Sedimentary Geology and Earth History
ERTH 4306 [0.0]	Course ERTH 4306 Not Found
ERTH 4402 [0.0]	Course ERTH 4402 Not Found
ERTH 4403 [0.0]	Course ERTH 4403 Not Found
ERTH 4504 [0.0]	Course ERTH 4504 Not Found
ERTH 4507 [0.5]	Advanced Petrology
ERTH 4801 [0.5]	Physics of the Earth
ERTH 4804 [0.0]	Course ERTH 4804 Not Found
ERTH 4807 [0.5]	Field Geology II
ERTH 4820 [0.0]	Course ERTH 4820 Not Found
MATH 2004 [0.5]	Multivariable Calculus for Engineering or Physics
MATH 2107 [0.5]	Linear Algebra II
MATH 3107 [0.5]	Linear Algebra III
MATH 3705 [0.5]	Mathematical Methods I
MATH 3800 [0.5]	Mathematical Modeling and Computational Methods
PHYS 2202 [0.5]	Wave Motion and Optics
PHYS 2305 [0.5]	Electricity and Magnetism
PHYS 2604 [0.5]	Modern Physics I
PHYS 3308 [0.5]	Electromagnetism
PHYS 3807 [0.5]	Mathematical Physics I
PHYS 4203 [0.5]	Physical Applications of Fourier Analysis
STAT 3503 [0.5]	Regression Analysis
STAT 3507 [0.5]	Sampling Methodology

14. 0.5 credit in: 0.5

NSCI 1000 [0.0]	Course NSCI 1000 Not Found
ISAP 1000 [0.5]	Seminar in Science

or approved course outside the Faculties of Science and Engineering and Design

15. 1.5 credits in free electives. 1.5

Total Credits 20.0

New Resources	No New Resources
Summary	Revise to accommodate course availability. This program is being deleted but is revised for current calendar requirements.
Rationale for change	Currently the Department of Earth Sciences offers 12 different programs and concentrations. With so many options students are confused with exactly which program is right for them, but it has led to most students gravitating to only a few of the offered programs. Earth Sciences with a concentration in Geophysics is an example of a program with low enrollment. Importantly, this program was built at a time with many more faculty members in this subdiscipline and so multiple courses were offered each year. However, with retirements it is not possible for our department to offer many needed courses year to year. Moreover, in surveys of student satisfaction this is an example where satisfaction is low due to complex scheduling, a lack of a cohort for students in such a small program and challenges ensuring that all program requirements can consistently be met. Therefore, we would like to streamline our offerings and reduce confusion for students and direct students toward programs with higher enrollment with much higher degree satisfaction.
Transition/Implementation	We will allow currently enrolled students to finish the program or offer them options to transition into our other offerings. But we will not be admitting new students into this program. In the case that a course accommodation needs to be made, we will ensure students are offered options to ensure they graduate on time.

Program reviewer comments

Key: 564

Program Change Request

Date Submitted: 02/06/25 2:02 pm

Viewing: **HBS-8Q : Earth Sciences with Concentration in Resource Economics B.Sc. Honours**

Last approved: 04/22/24 2:46 pm

Last edit: 02/06/25 2:02 pm

Last modified by: sheilathayer

Changes proposed by: sheilathayer

In Workflow

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

Approval Path

1. 02/06/25 2:06 pm
   Tim Patterson
   (timpatterson): Approved
   for ERTH ChairDir UG
2. 02/07/25 1:46 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI Dean
3. 02/07/25 1:49 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI FCC
4. 02/07/25 1:52 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI FBoard

History

1. Mar 21, 2014 by sandra
2. Aug 26, 2014 by vicki
3. Mar 4, 2015 by Sheila
   Thayer (sheilathayer)
4. Jan 5, 2016 by Sarah
   Adams-Aston
   (sarahadamsaston)
5. Mar 17, 2017 by Sarah
   Adams-Aston
   (sarahadamsaston)
6. Jan 9, 2018 by Sarah
   Adams-Aston
   (sarahadamsaston)
7. Apr 24, 2018 by Mike
   Labreque (mikelabreque)
8. Apr 17, 2019 by Mike
   Labreque (mikelabreque)
9. Feb 7, 2020 by Kristin
   Allen (kristinjallen)
10. Apr 22, 2024 by Kate
    Armstrong
    (katearmstrongfurniva)
11. Apr 22, 2024 by Kate
    Armstrong
    (katearmstrongfurniva)

Calendar Pages Using this Program	Earth Sciences
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	HBS-8Q
Level	Undergraduate
Faculty	Faculty of Science
Academic Unit	Department of Earth Sciences
Degree	Bachelor of Science Honours
Title	Earth Sciences with Concentration in Resource Economics B.Sc. Honours

Program Requirements

Earth Sciences with Concentration in Resource Economics
B.Sc. Honours (20.0 credits)

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

1. 0.5 credit in: 0.5

     ~~ERTH 4303 [0.0]~~   ~~Course ERTH 4303 Not Found~~

     ~~ERTH 4306 [0.0]~~   ~~Course ERTH 4306 Not Found~~

     ERTH 1002 [0.0]   The Earth and Life Odyssey: A Journey Through Billions of Years

2. 3.5 credits in: 3.5

     ERTH 2102 [0.5]   Mineralogy to Petrology

     ~~ERTH 2104 [0.0]~~   ~~Course ERTH 2104 Not Found~~

     ERTH 2105 [0.5]   Geodynamics

     ERTH 2106 [0.0]   Geochemistry

     ERTH 2312 [0.5]   Paleontology

     ERTH 2314 [0.5]   Sedimentation and Stratigraphy

     ~~ERTH 2406 [0.0]~~   ~~Course ERTH 2406 Not Found~~

     ERTH 2407 [0.0]   Structural Geology

     ERTH 2802 [0.5]   Field Geology I

3. 0.5 credit from: 0.5

     ~~ERTH 3203 [0.0]~~   ~~Course ERTH 3203 Not Found~~

     ~~ERTH 3206 [0.0]~~   ~~Course ERTH 3206 Not Found~~ (See Note, below)

~~4. 3.0 credits in:~~   ~~3.0~~

     ~~ERTH 3003 [0.0]~~   ~~Course ERTH 3003 Not Found~~

     ERTH 4006 [0.5]   Field Environmental Geobiology

     ERTH 4209 [0.5]   Mineral Exploration Field Geology

     ERTH 4807 [0.5]   Field Geology II

4. 3.5 credits in: 3.5

     ERTH 2419 [0.5]   On the Origin of Planets

     ERTH 3004 [0.0]   Igneous Petrology

     ERTH 3204 [0.5]   Mineral Deposits

     ERTH 3205 [0.5]   Physical Hydrogeology

     ERTH 3207 [0.5]   Metamorphic Petrology and Processes

     ERTH 3405 [0.5]   Geophysical Methods

     ~~ERTH 3806 [0.0]~~   ~~Course ERTH 3806 Not Found~~ (See Note, below)

     ERTH 3703 [0.0]   Isotope geochemistry and geochronology

6. 2.0 credit in ERTH at the 4000-level   2.0

7. 1.0 credit from: 1.0

     ERTH 4908 [1.0]   Honours Thesis

     ~~ERTH 4909 [0.5]~~   ~~Research in Earth Sciences~~

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

8. 2.0 credits in: 2.0

     ECON 1001 [0.5]   Introduction to Microeconomics

     & ECON 1002 [0.5]   Introduction to Macroeconomics

     ECON 2020 [0.5]   Intermediate Microeconomics I: Producers and Market Structure

     ~~ECON 2030 [0.0]~~   ~~Course ECON 2030 Not Found~~

     ECON 2210 [0.5]   Introductory Statistics for Economics

     ~~ECON 2220 [0.0]~~   ~~Course ECON 2220 Not Found~~

     ECON 3509 [0.5]   Development Planning and Project Evaluation

~~9. 1.0 credit from:~~   ~~1.0~~

9. 1.5 credit from: 1.5

     ECON 3803 [0.5]   The Economics of Natural Resources

     ECON 3804 [0.5]   Environmental Economics

     ECON 4030 [0.5]   Economics of Uncertainty and Information

10. 1.0 credit in Science Electives   1.0

     ~~ERTH 1006 [0.0]~~   ~~Course ERTH 1006 Not Found~~

     ~~ERTH 1009 [0.0]~~   ~~Course ERTH 1009 Not Found~~

10. 1.0 credit in: 1.0

     MATH 1007 [0.5]   Elementary Calculus I

     MATH 1107 [0.5]   Linear Algebra I

11. 1.0 credit in: 1.0

     CHEM 1001 [0.5]   General Chemistry I

     & CHEM 1002 [0.5]   General Chemistry II

12. 1.0 credit in: 1.0

     PHYS 1007 [0.5]   Elementary University Physics I

     & PHYS 1008 [0.5]   Elementary University Physics II

13. 0.5 credit in: 0.5

     BIOL 1104 [0.5]   Foundations of Biology II

14. 0.5 credit in: 0.5

COMP 1005 [0.5]	Introduction to Computer Science I	
15. 0.5 credit in:		0.5
ERTH 2004 [0.5]	Maps, Satellites and the Geospatial Revolution	
Total Credits		20.0

New Resources	No New Resources
Summary	Revise to accommodate course availability. This program is being deleted but is revised for current calendar requirements.
Rationale for change	Currently the Department of Earth Sciences offers 12 different programs and concentrations. With so many options students are confused with exactly which program is right for them, but it has led to most students gravitating to only a few of the offered programs. Earth Sciences with a concentration in Resource Economics is an example of a program with extremely low enrollment with just a single student at the moment. In surveys of student satisfaction this is an example where satisfaction is low due to complex scheduling, a lack of a cohort for students in such a small program and challenges ensuring that all program requirements can consistently be met. Therefore, we would like to streamline our offerings and reduce confusion for students and direct students toward programs with higher enrollment with much higher degree satisfaction.
Transition/Implementation	This change will have no impact on the existing students. Since the courses BSc students will take in their first year are the same for all students, irrespective of their concentrations, our proposed change will not impact program progression, nor will it require additional curricular changes. Student advising is already in place to help students choose a concentration before registering for the second year. We are working with RO on creating a system that will ensure students declare concentration before being allowed to register for the second year (similar to some other programs at Carleton)

Program reviewer
comments

Key: 562

Program Change Request

Date Submitted: 02/06/25 1:40 pm

Viewing: **HBS-7U : Earth Sciences with Concentration in Vertebrate Paleontology and Paleoecology B.Sc. Honours**

Last approved: 04/22/24 2:48 pm

Last edit: 02/06/25 1:40 pm

Last modified by: sheilathayer

Changes proposed by: sheilathayer

In Workflow

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

Approval Path

1. 02/06/25 2:05 pm
   Tim Patterson
   (timpatterson): Approved
   for ERTH ChairDir UG
2. 02/07/25 1:47 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI Dean
3. 02/07/25 1:49 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI FCC
4. 02/07/25 1:52 pm
   Julia Wallace
   (juliawallace): Approved
   for SCI FBoard

History

1. Mar 21, 2014 by sandra
2. Aug 26, 2014 by vicki
3. Mar 4, 2015 by Sheila
   Thayer (sheilathayer)
4. Jan 5, 2016 by Sarah
   Adams-Aston
   (sarahadamsaston)
5. May 19, 2016 by Sandra
   Bauer (sandrabauer)
6. May 19, 2016 by Sandra
   Bauer (sandrabauer)
7. Apr 5, 2017 by Sandra
   Bauer (sandrabauer)
8. Apr 24, 2018 by Mike
   Labreque (mikelabreque)
9. Feb 7, 2020 by Kristin
   Allen (kristinjallen)
10. Apr 22, 2024 by Kate
    Armstrong
    (katearmstrongfurniva)

Calendar Pages Using this Program	**Earth Sciences**
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	HBS-7U
Level	Undergraduate
Faculty	Faculty of Science
Academic Unit	Department of Earth Sciences
Degree	Bachelor of Science Honours
Title	Earth Sciences with Concentration in Vertebrate Paleontology and Paleoecology B.Sc. Honours

Program Requirements

Earth Sciences with Concentration in Vertebrate Paleontology and Paleoecology B.Sc. Honours (20.0 credits)

A. Credits Included in the Major CGPA (10.5 credits)

1. 0.5 credit in: 0.5

~~ERTH 3203 [0.0]~~	~~Course ERTH 3203 Not Found~~
~~ERTH 3206 [0.0]~~	~~Course ERTH 3206 Not Found (See note, below)~~
ERTH 1002 [0.0]	The Earth and Life Odyssey: A Journey Through Billions of Years

2. 2.5 credits in: 2.5

ERTH 2102 [0.5]	Mineralogy to Petrology
ERTH 2105 [0.5]	Geodynamics
ERTH 2106 [0.0]	Geochemistry
ERTH 2312 [0.5]	Paleontology
ERTH 2314 [0.5]	Sedimentation and Stratigraphy
~~ERTH 2406 [0.0]~~	~~Course ERTH 2406 Not Found~~

3. 2.0 credits in: 2.0

~~ERTH 3003 [0.0]~~	~~Course ERTH 3003 Not Found~~
ERTH 3111 [0.5]	Vertebrate Evolution: Mammals, Reptiles, and Birds
ERTH 3112 [0.5]	Vertebrate Evolution: Fish and Amphibians
ERTH 3113 [0.5]	Geology of Human Origins (See Note, below)
ERTH 4302 [0.0]	Frozen Earth: Unveiling the Snowball Earth Catastrophe

4. 0.5 credit from: 0.5

ERTH 4003 [0.5]	Directed Studies in Earth Sciences
ERTH 4808 [0.5]	Vertebrate Paleontology Field Camp

5. 1.0 credit from: 1.0

~~ERTH 1006 [0.0]~~	~~Course ERTH 1006 Not Found~~
~~ERTH 1009 [0.0]~~	~~Course ERTH 1009 Not Found~~
ERTH 4908 [1.0]	Honours Thesis

~~**7. 3.0 credits from** and to include 2.0 credits at the 4000-level:~~   ~~3.0~~

6. 4.0 credits from and to include 2.0 credits at the 4000-level: 4.0

BIOL 3104 [0.5]	Molecular Genetics
BIOL 3202 [0.5]	Principles of Developmental Biology
BIOL 3501 [0.5]	Biomechanics
BIOL 3605 [0.5]	Field Course I
BIOL 3609 [0.5]	Evolutionary Concepts
BIOL 3611 [0.5]	Evolutionary Ecology
BIOL 3802 [0.5]	Animal Behaviour
BIOL 4102 [0.5]	Molecular Ecology
BIOL 4103 [0.5]	Population Genetics
BIOL 4104 [0.5]	Evolutionary Genetics
BIOL 4207 [0.5]	Advanced Embryology & Developmental Biology
BIOL 4500 [0.5]	The Biology of Birds
BIOL 4501 [0.5]	The Taxonomy of Birds
BIOL 4502 [0.5]	Herpetology
~~GEOM 3002 [0.5]~~	~~Introduction to Remote Sensing~~
BIOL 4604 [0.5]	Landscape Ecology
BIOL 4802 [0.5]	Advanced Animal Behaviour
GEOG 3102 [0.5]	Geomorphology
GEOG 3104 [0.5]	Principles of Biogeography
ERTH 2401 [0.5]	Dinosaurs
~~ERTH 3806 [0.0]~~	~~Course ERTH 3806 Not Found~~
~~ERTH 4005 [0.0]~~	~~Course ERTH 4005 Not Found~~
~~ERTH 4305 [0.5]~~	~~Advanced Sedimentary Geology and Earth History~~
ERTH 2407 [0.0]	Structural Geology
ERTH 2419 [0.5]	On the Origin of Planets
ERTH 4006 [0.5]	Field Environmental Geobiology
ERTH 4007 [0.5]	Evolutionary Developmental Paleobiology
~~ERTH 4306 [0.0]~~	~~Course ERTH 4306 Not Found~~
~~ERTH 4403 [0.0]~~	~~Course ERTH 4403 Not Found~~
~~ERTH 4820 [0.0]~~	~~Course ERTH 4820 Not Found~~

B. Credits Not Included in the Major CGPA (9.5 credits)

7. 2.5 credits in: 2.5

BIOL 1103 [0.5]	Foundations of Biology I
BIOL 1104 [0.5]	Foundations of Biology II
MATH 1007 [0.5]	Elementary Calculus I
MATH 1107 [0.5]	Linear Algebra I
PHYS 1007 [0.5]	Elementary University Physics I

8. 1.0 credit in: 1.0

CHEM 1001 [0.5]	General Chemistry I
& CHEM 1002 [0.5]	General Chemistry II

9. 2.0 credits in: 2.0

BIOL 2001 [0.5]	Animals: Form and Function	
BIOL 2104 [0.5]	Introductory Genetics	
BIOL 2600 [0.5]	Ecology	
STAT 2507 [0.5]	Introduction to Statistical Modeling I	

10. **0.5 credit in** Science Faculty Electives (not ERTH or BIOL)　　　0.5

11. **0.5 credit in:**　　　0.5

　　NSCI 1000 [0.0]　　　Course NSCI 1000 Not Found (or approved course outside the faculties of Science and Engineering and Design)

　　ERTH 2004 [0.5]　　　Maps, Satellites and the Geospatial Revolution

12. **0.5 credit in:**　　　0.5

　　ISAP 1000 [0.5]　　　Seminar in Science

13. **1.5 credits in** approved courses outside the faculties of Science and Engineering and Design　　　1.5

15. **1.0 credits in free electives.**　　　1.0

14. **1.0 credits in** free electives.　　　1.0

Total Credits　　　20.0

Note:
For **Item 3** above, ERTH 3203 is required if prerequisite conditions are met.

New Resources	No New Resources
Summary	Deletion of ERTH 4909, no longer offered and updated courses into section 7) The pair of first year courses ERTH 1006, 1009 is replaced by one first year course ERTH 1002; we accommodate this by adding 0.5 credit of ERTH at the 2000-level. ERTH 2406 and ERTH 3806 are both deleted and only one course ERTH 2407 is available to replace them, so we have added ERTH 2419 Origin of Planets to the pick list of courses ERTH 3203 and ERTH 3206 are both deleted. Geochemistry ERTH 3003 is moved to second year as ERTH 2106.
Rationale for change	Lack of teaching resources (retirements without replacement) and restrictions on class sizes forced us to remove one of the large first year courses, eliminate some of our Sedimentology offerings, and cut back on 4000-level courses with low enrolment. By condensing our 4000- level offerings into a set of 4 mandatory courses we ensure higher student numbers in each class and reduce the number of teaching assignments. Loss of third year Sedimentology content is compensated by making 4th year Sedimentology mandatory.
Transition/Implementation	ERTH already does individual counselling each semester with all students in our programs by printing audits and offering to meet with students to ensure they stay on track. Any students affected by cancellation of courses they intended to take will be revised on which courses remain and when they can take them.

Program reviewer
comments

Key: 563

Program Change Request

Date Submitted: 01/17/25 3:31 pm

Viewing: **M38 : Minor in Earth Sciences: Earth Resources and Processes**

Last approved: 02/17/23 11:01 am

Last edit: 01/30/25 10:38 am

Last modified by: robyngreen

Changes proposed by: sheilathayer

In Workflow

1. **ERTH ChairDir UG**
2. **SCI FCC**
3. **SCI FBoard**
4. **PRE SCCASP**
5. SCCASP
6. SQAPC
7. Senate
8. PRE CalEditor
9. CalEditor

Approval Path

1. 01/20/25 4:53 pm
   Tim Patterson
   (timpatterson): Approved
   for ERTH ChairDir UG
2. 02/03/25 9:44 am
   Maria Doria
   (mariadoria): Approved
   for SCI FCC
3. 02/03/25 9:51 am
   Maria Doria
   (mariadoria): Approved
   for SCI FBoard

History

1. Mar 21, 2014 by sandra
2. Aug 26, 2014 by vicki
3. Jan 7, 2016 by Sarah
   Adams-Aston
   (sarahadamsaston)
4. Jan 17, 2018 by Sarah
   Adams-Aston
   (sarahadamsaston)
5. Apr 26, 2021 by Kristin
   Allen (kristinjallen)
6. Feb 17, 2023 by Natalie
   Phelan (nataliephelan)

Calendar Pages Using this Program	Earth Sciences
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	M38
Level	Undergraduate
Faculty	Faculty of Science
Academic Unit	Department of Earth Sciences
Degree	Not Applicable
Title	Minor in Earth Sciences: Earth Resources and Processes

Program Requirements

Minor in Earth Sciences: Earth Resources and Processes (4.0 credits)

The Minor is available to students registered in degree programs other than those offered by the Department of Earth Sciences.

Students are required to present a Minor CGPA of 4.00 or higher at graduation in order to be awarded a Minor in Earth Sciences: Earth Resources and Processes.

Requirements

1. 0.5 credit in: 				**0.5**
   ERTH 1002 [0.0]			The Earth and Life Odyssey: A Journey Through Billions of Years
2. 1.0 credit from:				1.0
   ~~ERTH 1006 [0.0]~~		~~Course ERTH 1006 Not Found~~

~~ERTH 1009~~ ~~[0.0]~~	~~Course ERTH 1009 Not Found~~	
~~2. 2.5 credits from:~~		~~2.5~~
~~ERTH 2012 [0.5]~~	~~Planet Hollywood~~	
~~ERTH 2312 [0.5]~~	~~Paleontology~~	
ERTH 2102 [0.5]	Mineralogy to Petrology	
ERTH 2105 [0.5]	Geodynamics	
ERTH 2314 [0.5]	Sedimentation and Stratigraphy	
~~ERTH 2401 [0.5]~~	~~Dinosaurs~~	
~~ERTH 2402 [0.5]~~	~~Climate Change: An Earth Sciences Perspective~~	
~~ERTH 2403 [0.5]~~	~~Introduction to Oceanography~~	
~~ERTH 2415 [0.5]~~	~~Natural Disasters~~	
~~ERTH 2419 [0.5]~~	~~On the Origin of Planets~~	
~~ERTH 3113 [0.5]~~	~~Geology of Human Origins~~	
~~ERTH 3206~~ ~~[0.0]~~	~~Course ERTH 3206 Not Found~~	
~~3. 0.5 credit in:~~		~~0.5~~
~~ERTH 4303~~ ~~[0.0]~~	~~Course ERTH 4303 Not Found~~	
ERTH 2316 [0.5]	Paleoecology	
3. 1.5 credit in ERTH at the 2000-level or higher		1.5
4. 1.0 credit in ERTH at the 3000-level or higher		1.0
Total Credits		4.0

New Resources	No New Resources
Summary	Expanding new options for Minor in Earth Sciences.
Rationale for change	Program review; several courses were no longer available due to teaching resources.
Transition/Implementation	Review of student's audits.
Program reviewer comments	**angelwagner (01/27/25 10:26 am):** Editorial correction: effective date changed from 2024-25 to 2025-26.

Key: 571

Associated Minor Modifications-Earth Sciences

Course Code	Course Name	Action
ERTH 1002	The Earth and Life Odyssey: A Journey through Billions of Years	Added
ERTH 1004	Earth's Epic Tale: A Story Across Billions of Years	Added
ERTH 1006	Exploring Planet Earth	Deleted
ERTH 1009	The Earth System through Time	Deleted
ERTH 1010	Our Planet Earth	Deleted
ERTH 1011	Evolution of the Earth	Deleted
ERTH 2102	Mineralogy to Petrology	Edited
ERTH 2104	Igneous Systems, Geochemistry and Processes	Deleted
ERTH 2105	Geodynamics	Edited
ERTH 1206	Geochemistry	Added
ERTH 2312	Paleontology	Edited
ERTH 2314	Sedimentation and Stratigraphy	Edited
ERTH 2316	Paleoecology	Edited
ERTH 2318	Sedimentology	Deleted
ERTH 2406	Geology and Map Interpretation	Deleted
ERTH 2407	Structural Geology	Added
ERTH 2422	Drivers of Climate Change through Geological Time	Added
ERTH 2802	Field Geology I	Edited
ERTH 3002	Gemology	Deleted
ERTH 3003	Geochemistry and Geochronology	Deleted
ERTH 3004	Igneous Petrology	Added
ERTH 3111	Vertebrate Evolution: Mammals, Reptiles, and Birds	Edited
ERTH 3112	Vertebrate Evolution: Fish and Amphibians	Edited
ERTH 3203	Sedimentology	Deleted
ERTH 3204	Mineral Deposits	Edited
ERTH 3205	Physical Hydrogeology	Edited
ERTH 3206	Sedimentary Depositional Systems	Deleted
ERTH 3207	Metamorphic Petrology and Processes	Edited
ERTH 3703	Isotope Geochemistry and Geochronology	Added
ERTH 3806	Structural Geology	Deleted
ERTH 4206	Contaminant and Remediation Hydrogeology	Edited

ERTH 4209	Mineral Exploration Field Geology	Edited
ERTH 4302	Frozen Earth: Unveiling the Snowball Earth Catastrophe	Added
ERTH 4303	Resources of a Finite Earth	Deleted
ERTH 4306	Resource Basin Analysis	Deleted
ERTH 4406	Structural Analysis	Deleted
ERTH 4403	Tectonic Evolution of Canada	Deleted
ERTH 4504	Advanced Petrology	Deleted
ERTH 4507	Advanced Petrology	Edited
ERTH 4707	Engineering Seismology	Deleted
ERTH 4803	Radiogenic Isotope Geology	Deleted
ERTH 4804	Exploration Geophysics	Deleted
ERTH 4820	Research Methods in Earth Sciences	Deleted
ERTH 4908	Honours Thesis	Edited
ERTH 4909	Research in Earth Sciences	Edited

Template for Major Modifications: A1 or A2

MEMORANDUM

To: **Vice-President's Academic and Research Committee (VPARC) for A1s**
            Senate Quality Assurance and Planning Committee (SQAPC) for A2s
From: Anne Bordeleau (Director), Azrieli School of Architecture & Urbanism
CC: Larry Kostiuk, FED Dean and Samuel Ajila, FED Associate Dean Policy and Planning
Date: 22 November 2024
Subject: Major Modification to BAS C&S, BAS Design, and BAS Urbanism. Track [A1 or A2]

Modification Description

Description of the new modification:

The proposed modification supports the Azrieli School of Architecture & Urbanism's (ASAU) commitment to reorient its curricula around contemporary and urgent issues in society broadly as well as in the design disciplines. Taking cues from the University's Strategic Plan and Kinàmàgawin report, but also responding to the climate emergency and the new student performance criteria (SPC) being drafted by the Canadian Architectural Certification Board (CACB), the curricular changes reorient our teaching and courses more intentionally around land and climate, foregrounding climate, our occupation of Indigenous lands, and the subservience of our discipline to the broader public and urban realms, as well as to existing buildings and environments, as important grounds upon which we teach and learn about our responsibilities and skills as designers and architects.

As such, the modification enabled us to strengthen our programs, their desirability for prospective students, the clarity of their pedagogical arcs and teaching framework, and their learning outcome to better serve both the profession and the ASAU's profile as a leading School of architectural education.

At the same time, the modifications address issues of equity within the school both for the students (across the three Majors) and in relation to faculty teaching load. Specifically, the modification provided opportunities to address Architecture-specific teaching load considerations, and to develop a more equitable approach and a better pedagogical model to the distribution of studio course credit load, hours and schedule, a model that will benefit student learning, equitable teaching assignments, but also research engagement, by creating more opportunities for better alignment between faculty research and course format and content.

The curriculum review also provided an opportunity to do some 'housekeeping', addressing ongoing issues with the present programs (e.g. course codes misalignment, course duplications so that it could be offered to two different cohorts, or inadequate representation of content taught by course titles and calendar descriptions). Therefore, the proposed modification eliminates course redundancies and includes many updated titles, course descriptions and codes as needed. The modification also considers the university aspiration to simplify admissions, and could eventually place us in a position to admit students in a common first year in a longer term. For the next few years though, prospective students will still need to apply specifically to one of the Majors.

Ultimately, the proposed modification strengthens the three existing BAS Majors (Conservation & Sustainability (C&S), Design, and Urbanism), creates more synergies between the programs while bringing about efficiencies, providing all BAS students with the skills needed to graduate with a pre-professional architecture degree that can grant them advanced placement in Professional Architecture in North America, and thereby raising the profile of our School.

 The key changes are:

1. **Reorienting our curriculum to the university's Strategic Plan and Kinàmàgawin report**: *this includes foregrounding land-based knowledges, climate and environment, as well as adaptive architecture, communities and urban design, and it informed the thematic progression from year to year (reflected in studio title), and the strategic position of existing courses earlier in the curricular arc (e.g. Design and the Environment, Land Studio in first year, earlier start to Technology stream with greater emphasis on climate, land, and global interconnectedness).*
2. **Clarifying and strengthening the curricular arc across all BAS Majors and into the M.Arch programs, resolving an ongoing issue in the ASAU and now allow all BAS students access to the two year M.Arch degree:** *this includes the creation of a **common core across the three Majors**, with courses that strategically meet the CACB criteria for accreditation; opportunities for cross-pollination across Majors (e.g., studios and a core class in Urbanism and Adaptative Architecture for all); **clarification and shared ambitions** (local, global, speculative) of Major specific studios and electives from the second to the fourth year. The creation of **greater overlap between the majors** with more opportunities for collaboration and peer-learning. The common includes 'fundamentals' courses that are also part of the Major's core classes, for a total of 12.5 credits for each Major. All degrees are Honours degree, with 6 additional credits that are specific to each Major, and 1.5 free elective.*
3. **Reducing course redundancies and misalignments; updating calendar descriptions and course codes; strategically addressing evolving accreditation requirements (CACB SPC requirements):** This includes the **revision of many course titles and calendar descriptions** to ensure they clearly meet Student Performance Criteria (SPC) from the CACB. It includes the review of course codes (i.e. many courses maintained, but with new course codes, titles and descriptions). It also involved the **assessment of courses taught by other departments** (e.g. ARTH1200, ARTH1205 and CIVE2005), and addition of others (e.g. GEOG, INDG, SOCI, ANTH, ARTH), across all Majors.
4. **Resolving historic teaching load equity issues for ASAU faculty members, with the re-calibration of studio credit (at 1.0),** making all studios teaching load comparable for faculty.
5. The establishment of a framework that could eventually enable admission **into a common first year** to respond to a University aspiration. While we do not want to move forward with this change from the onset, we believe that this possibility could be entertained within two to three years of the implementation of the proposed modification. The intention would be to admit students in an undeclared BAS program, giving them the opportunity to declare their Major as they prepare to move into their second year of studies.

Principal rationale for curricular changes:

There are several objectives to these outlined changes:

1. First, and fundamentally, we are taking this opportunity to align the curriculum with our position statement, the University's strategic priorities, and important societal and environmental issues of our times and profession, more intentionally orienting our curriculum to address climate, Indigenous lands and social justice (***Curricular arc reorientation around critical values for ASAU, CU and the design disciplines***).
2. We want to broadly promote the exceptional presence of the three Majors in our School, and address the current perception that C&S and Urbanism are not as valuable as Design -- a perception that is cultivated by the deflection to other programs (including C&S and Urbanism) for those students who are not granted admission in architecture. As part of this process, we are making sure that all Majors meet the CACB requirement and can be equally considered 'pre-professional degrees'. This was an important motivation for initiating the curricular review, one that will make our graduates even more successful in practice and/or further studies (***Strengthening professional programs and School reputation***).
3. At the same time, we want to ensure that students in the different Majors have more opportunities to interact with one another throughout the program, particularly in design studios were the range of expertise each and every students bring can create meaningful opportunities for peer-learning and collaborations, preparing students for the team work that characterize projects in the design professions. In a time when housing, climate and sustainability are at the forefront of the issues we face, it is critical that we clarify ASAU's expertise and established experience in these areas of study, and that all students benefit from this (***Nurturing ASAU graduate's skills, learning, and future success***).

The next three pages include the three tables detailing the changes to program structure (e.g., required and elective courses) and options (i.e. co-op, study abroad and experiential opportunities).

Courses listed on the left are those currently offered, and those on the right are either their equivalent (with new course code, course title and calendar description), or list the unchanged versions in the reivsed curriculum, with updated course codes and course titles.

In each one of the tables, the **courses highlighted in orange** are those that are specific to the Majors. In each Major, these include three in-department core classes, three out-of-department core classes, and three Major specific studios.

DESIGN MAJOR (BAS DESIGN):

Current program	16.5 Major CGPA		
		New course code	New course / New course Title
1. 9.5 credits in core courses:	9.5 in core (Studio)	1. 8 credits in core courses:	
ARCS 1005 [0.5]	Drawing	ARCH 1111 [1.0]	Studio 1A: Land
ARCS 1105 [1.0]	Studio 1	ARCH 1112 [1.0]	Studio 1B: Fundamentals
ARCS 2105 [1.5]	Studio 2	ARCH 2111 [1.0]	Studio 2A: Urbanism
ARCS 2106 [1.5]	Studio 3	ARCH 2172 [1.0]	Studio 2B: Local (Design)
ARCS 3105 [1.5]	Studio 4	ARCH 3111[1.0]	Studio 3A: Adaptive Reuse
ARCS 3107 [1.0]	Studio 5	ARCH 3172 [1.0]	Studio 3B: Global (Design)
ARCS 4105 [1.5]	Comprehensive Studio	ARCH 4111 [1.0]	Studio 4A: Integrated
ARCS 4107 [1.0]	Option Studio	ARCH4172 [1.0]	Studio 4B: Open (Design)
2. 7.0 credits from additional major requirements:		2. 8.5 credits from additional major requirements:	
ARCC 1202 [0.5]	History of Structures	ARCH 1221 [0.5]	Material Histories
ARCC 2100 [0.5]	Design & the Environment	ARCH 1222 [0.5]	Design, Climate, Environment
ARCC 2202 [0.5]	Architectural Technology 1	ARCH 2221 [0.5]	Ecological & Regulatory Systems
CIVE 2005 [0.5]	Architectural Technology 2	ARCH 2222 [0.5]	Structures
ARCC 2203 [0.5]	Architectural Technology 3	ARCH 3221 [0.5]	Assemblies
ARCC 3202 [0.5]	Architectural Technology 4	ARCH 4221 [0.5]	Environmental Systems
ARCC 4500 [0.5]	Design Economics	ARCH 4771 [0.5]	The Cost of Building
ARCH 1000 [0.5]	Intro. to Architecture	ARCH 1331 [0.5]	Introduction to Architecture
ARCH 2300 [0.5]	Intro. to Modern Arch.	ARCH 2331 [0.5]	Modernism and Global Urbanism
		ARCH 3331 [0.5]	Arch. Conservation Philosophy
ARCH 3601 [0.5]	Architectural Discourse I	ARCH 4772 [0.5]	Arch. Discourse and Methods
ARCH 4002 [0.5]	Canadian Architecture	ARCH 2332 [0.5]	Architectures in Canada
ARCH 4601 [0.5]	Architectural Discourse II	ARCH 4332 [0.5]	Contemporary Theories in Arch.
ARCN 2105 [0.5]	Intro Computer Modeling	ARCH 1442 [0.5]	Digital Drawing & Modelling
ARCN 2106 [0.5]	Introduction to Multimedia	ARCH 1441 [0.5]	Drawing and Media
		ARCH3441 [0.5]	Digital Computation & Simulation
ARCU 3100 [0.5]	The Morphology of the City	ARCH 4773 [0.5]	Designed Landscpaes
B. Credits Not Included in the Major CGPA (3.5 credits)		B. Credits Not Included in the Major CGPA (4.5 credits)	
3. 1.5 credits from:		3. 2 credits from	
ARTH 1200 [0.5]	H&T: Prehis. to 1500		NO LONGER REQUIRED
ARTH 1201 [0.5]	H&T: 1500 to Present	ARTH 1201 [0.5]	H&T of Architecture: 1500 to Present
CIVE 2005 [0.5]	Architectural Technology 2		REPLACED ABOVE ARCH2222
		DISB2001	Intro Disability Studies (Out of Dept)
		INDGXXXX/ARCH3777	Land Ethics (Out of Department)
	CHOOSE ONE FROM EITHER:	HRSJ2001/HRSJ2202	Social Justice (Out of Department)
4. 2.0 credits free electives		4. 1.5 credits from free electives	
Total Credits	20	Total Credits	20

CONSERVATION & SUSTAINABILITY MAJOR (BAS C&S):

Current program	16.5 Major CGPA	New program	16.5 Major CGPA
		New course code	New course / New course Title
1. 9.5 credits in core courses:	9.5 in core (Studio)	1. 8 credits in core	
ARCS 1005 [0.5]	Drawing	ARCH 1111 [1.0]	Studio 1A: Land
ARCS 1105 [1.0]	Studio 1	ARCH 1112 [1.0]	Studio 1B: Fundamentals
		ARCH 2111 [1.0]	Studio 2A: Urbanism
ARCS 2302 [1.0]	CS Studio 1	ARCH 2182 [1.0]	Studio 2B: Local (C&S)
ARCS 3301 [1.0]	CS Studio 2	ARCH 3111 [1.0]	Studio 3A: Adaptive Reuse
ARCS 3302 [1.0]	CS Studio 3	ARCH 3182 [1.0]	Studio 3B: Global (C&S)
ARCS 4105 [1.5]	Comprehensive Studio	ARCH 4111 [1.0]	Studio 4A: Integrated
ARCS 4107 [1.0]	Option Studio	ARCH 4182 [1.0]	Studio 4B: Open (C&S)
2. 7.0 credits from additional major requirements:		2. 8.5 credits from additional major requirements:	
ARCC 1202 [0.5]	History of Structures	ARCH 1221 [0.5]	Material Histories
ENVE 1001 [0.5]	Architecture & the Environment	ARCH 1222 [0.5]	Design, Climate, Environment
ARCC 2202 [0.5]	Architectural Technology 1	ARCH 2221 [0.5]	Ecological & Regulatory Systems
CIVE 2005 [0.5]	Architectural Technology 2	ARCH 2222 [0.5]	Structures
ARCC 2203 [0.5]	Architectural Technology 3	ARCH 3221 [0.5]	Assemblies
ARCC 3202 [0.5]	Architectural Technology 4	ARCH 4221 [0.5]	Environmental Systems
ARCC 3502 [0.5]	Intro to Arch. Conservation		
ARCC 4207 [0.5]	Advanced Bldg Assessment	ARCH 4881 [0.5]	Advanced Bldg Assessment
ARCC 4500 [0.5]	Design Economics		
ARCH 1000 [0.5]	Intro. to Architecture	ARCH 1331 [0.5]	Introduction to Architecture
ARCH 2300 [0.5]	Intro. to Modern Arch.	ARCH 2331 [0.5]	Modernism and Global Urbanism
ARCH 4002 [0.5]	Canadian Architecture	ARCH 2332 [0.5]	Architectures in Canada
ARCH 4200 [0.5]	Arch. Conservation Philosophy	ARCH 3331 [0.5]	Arch. Conservation Philosophy
		ARCH 4332 [0.5]	Contemporary Theories in Arch.
ARCN 2105 [0.5]	Intro Computer Modeling	ARCH 1442 [0.5]	Digital Drawing & Modelling
ARCN 2106 [0.5]	Introduction to Multimedia	ARCH 1441 [0.5]	Drawing and Media
ARCN 4100 [0.5]	Historic Site Rec. and assess.	ACSE 3207 [0.5]	Historic Site Rec. and assess
ARCN 4200 [0.5]	Bldg Pathology and Rehab.	ACSE 4691 [0.5]	Bldg Pathology and Rehab.
ARCU 3100 [0.5]	The Morphology of the City		
		ARCH 3441 [0.5]	Digital Computation & Simulation
		ARCH 4882 [05]	Topics in Conservation
		ARCH 4883 [0.5]	Evaluation of Heritage Properties
B. Credits Not Included in the Major CGPA (3.5 credits)		B. Credits Not Included in the Major CGPA (3.5 credits)	
3. 1.5 credits from:		3. 2 credits from	
ARTH 1200 [0.5]	H&T: Prehis. to 1500		NO LONGER OFFERED
ARTH 1201 [0.5]	H&T: 1500 to Present	ARTH 1201 [0.5]	H&T of Architecture: 1500 to Present
CIVE 2005 [0.5]	Architectural Technology 2	ARCH 2222 [0.5]	Structures
CDNS 2400 [0.5]	Heritage Places/Practices Canada	CDNS 2400 [0.5]	Heritage Places/Practices Canada
ENVE 4105	Green Buildg Design		
ARCN 4100 [0.5]	Historic Site Rec. and assess.	ACSE 3207 [0.5]	Historic Site Rec. and assess.
ARCN 4200 [0.5]	Bldg Pathology and Rehab.	ACSE 4691 [0.5]	Bldg Pathology and Rehab.
4. 2.0 credits free electives		4. 1.5 credits from free electives	
Total Credits	20	Total Credits	

URBANISM MAJOR (BAS URBANISM)

Current program	16.5 Major CGPA		
	9.5 in core (Studio)	New course code	New course / New course Title
1. 9.5 credits in core courses:		1. 8 credits in core	
ARCS 1005 [0.5]	Drawing	ARCH 1111 [1.0]	Studio 1A: Land
ARCS 1105 [1.0]	Studio 1	ARCH 1112 [1.0]	Studio 1B: Fundamentals
ARCS 2303 [1.0]	Urbanism Studio 1	ARCH 2111 [1.0]	Studio 2A: Urbanism
ARCS 2304 [1.0]	Urbanism Studio 2	ARCH 2192 [1.0]	Studio 2B: Local (Urbanism)
ARCS 3304 [1.0]	Urbanism Studio 3	ARCH 3111[1.0]	Studio 3A: Adaptive Reuse
ARCS 3306 [1.0]	Urbanism Studio 5	ARCH 3192 [1.0]	Studio 3B: Global (Urbanism)
ARCS 4105 [1.5]	Comprehensive Studio	ARCH 4111 [1.0]	Studio 4A: Integrated
ARCS 4107 [1.0]	Option Studio	ARCH4192 [1.0]	Studio 4B: Open (Urbanism)
2. 7.0 credits from additional major requirements:		2. 8.5 credits from additional major requirements:	
ARCC 1202 [0.5]	History of Structures	ARCH 1221 [0.5]	Material Histories
ARCC 2100 [0.5]	Design & the Environment	ARCH 1222 [0.5]	Design, Climate, Environment
ARCC 2202 [0.5]	Architectural Technology 1	ARCH 2221 [0.5]	Ecological & Regulatory Systems
		ARCH 2222 [0.5]	Structures
ARCC 2203 [0.5]	Architectural Technology 3	ARCH 3221 [0.5]	Assemblies
ARCC 3202 [0.5]	Architectural Technology 4	ARCH 4221 [0.5]	Environmental Systems
ARCC 4500 [0.5]	Design Economics		
ARCH 1000 [0.5]	Intro. to Architecture	ARCH 1331 [0.5]	Introduction to Architecture
ARCH 2300 [0.5]	Intro. to Modern Arch.	ARCH 2331 [0.5]	Modernism and Global Urbanism
		ARCH 3331 [0.5]	Arch. Conservation Philosophy
ARCH4201 [0.5]	History of Modern Housing	ARCH 4991 [0.5]	History of Modern Housing
ARCN 2105 [0.5]	Intro Computer Modeling	ARCH 1442 [0.5]	Digital Drawing & Modelling
ARCN 2106 [0.5]	Introduction to Multimedia	ARCH 1441 [0.5]	Drawing and Media
ARCU3100 [0.5]	The morphology of the city		
ARCU4103 [0.5]	Cities		
ARCU4300 [0.5]	Theories of Urbanism	ARCH4992 [0.5]	Theories of Urbanism
		ARCH 2332 [0.5]	Architectures in Canada
		ARCH 4332 [0.5]	Contemporary Theories in Arch.
ARCU4700 [0.5]	Urban Utopias		
ARCU4801 0.5]	Topics in Urbanism	ARCH 4993 [0.5]	Topics in Urbanism
.	-	ARCH3441 [0.5]	Digital Computation & Simulation
B. Credits Not Included in the Major CGPA (3.5 credits)		B. Credits Not Included in the Major CGPA (4.5 credits)	
3. 1.5 credits from:		3. 2 credits from	
ARTH 1200 [0.5]	H&T: Prehis. to 1500		NO LONGER OFFERED
ARTH 1201 [0.5]	H&T: 1500 to Present	ARTH 1201 [0.5]	H&T of Architecture: 1500 to Present
GEOG 2200 [0.5]	Global Connections		
GEOG 2023 [0.5]	Cities Inequalities and Urban Chang	GEOG 2023 [0.5]	Cities Inequalities and Urban Change
GEOG 4323 [0.5]	Urban and Regional Planning	GEOG 4323 [0.5]	Urban and Regional Planning
GEOM1004 [0.5]	Maps, Satellits and Geospatial	GEOM1004 [0.5]	Maps, Satellits and Geospatial
4. 2.0 credits free electives		4. 1.5 credits from free electives	
Total Credits	20	Total Credits	20

Impact on Other Programs

a. We currently open some of our courses to students in other departments, and we will continue to do so. Likewise, our three Majors currently have courses outside of our department that are part of the program requirements, and this continues to be the case, though with some slight adjustments with respect to the required courses in Urbanism, and some additional courses in Design. In the case of the courses that used to be cross-listed, we will work with collaborating departments to ensure everything can transition well for those programs if changes are required as they are from time to time. We continue to have many cross-appointed faculty who tend to teach across programs, and through whom we can maintain strong connections with other departments and programs.

In the past, all students took two courses taught in Art History (ARTH1200 and ARTH1205), and one course taught in CIVE. We also offered some of our existing courses to students in Architectural Conservation and Sustainability Engineering (ACSE), as well as to students across campus. We have been in conversations with ARTH and CIVE about the upcoming changes and they are supportive. More specifically, we discussed some of the courses that are jointly offered between ARCH and ACSE moving forward. Letters of support from both these departments are included.

We have reached out to Geography to ensure that the students taking a Minor in Urban Studies will be able to continue and any of the changes in the course codes are reflected in the updated list of courses. We have also had conversations with FIST and Intedisciplinary Studies for courses in INDG, HRSJ and DISB to confirm that they can take Design Majors students for these three out-of-department required courses. Letters of support from the chairs and directors of Geography, FIST, and Interdisciplianary Studies chair are included.

Conversely, the proposed changes may open the opportunity for students interested in a minor in architecture, with the possibility for them to obtain up to 4 credits in either Design, Conservation & Sustainability or Urbanism (two 1.0 credit studios and four 0.5 credit courses). We will look further into this as we implement the new program. We are also continuing a conversation internally about course caps to work to open more of our introduction courses to students outside of our programs.

Impact on Learning Outcomes and Curriculum Map

Our updated table will only need to reflect the new course codes for Student Performance Criteria (SPCs) from the CACB and how those translate to learning outcomes. As most courses in the existing curriculum have a direct equivalent in the revised curriculum, **there are no significant changes to the learning outcomes and SPCs**, only a consolidation and further clarity in calendar descriptions as to where those are to be met. The udpated table will essentially be an housekeeping task.

While there are no changes on the learning outcomes insofar as degree-level expectations are considered, there will be some positive impacts for students in the Conservation & Sustainability as well as for Urbanism Majors with respect to accredition criteria, as we are aligning the studio and technology courses sequences across all majors so those students will now be eligible to be considered for advanced placement in the Professional M.Arch at the graduate level.

Societal Need (½ page)

Not applicable. Still, we would like to note that the conversations at the most recent CACB conference (October 2022) have made it very clear that adaptative architecture (or conservation and sustainability), as well as urbanism (including access to housing and the rapid processes of urbanization) are amongst the two most critical areas of studies for architects today. This reinforces the pertinence of bringing these Majors to be on par with the design Majors and clearly demonstrating their importance and value for the profession.

Students

As part of surveys conducted and through conversations held during the self-assessment exercise undertaken in 2022-2023, it has been very clearly established that students in the different BAS Majors had two main concerns:

1. Looking for equal opportunities to apply for advancement placement in the Professional M.Arch degree. This was reiterated in conversations with students at Townhall meetings (December 7, 2022), as well as through meetings with the School wellbeing committee (January to March 2023).
2. Lacking opportunities for interactions between the different Majors (in Design, Conservation & Sustainability, and Urbanism). 75% of the BAS respondents indicated that they would like to see more opportunities for interactions between the Majors.

The benefit for students is an opportunity to learn across these equally important areas of studies, gaining important insights into critical questions in urbanism as well as in heritage, adaptative reuse and architecture. This was equally a priority for many faculty, and reinforced through multiple

working session, faculty board retreats, one-on-one discussions with multiple faculty teaching through different streams, held through 2023-2024.

For the students enrolled in the C&S and Urbanism Majors, the added benefit will be for them to be considered into entry with advanced placement in the M.Arch program, as well as the possibility to be offered admissions in graduate programs requiring a pre-professional undergraduate degree.

Finally, the fact that students who could not be granted access to Design were 'deflected' to Urbanism or Conservation & Sustainability created a sense of hierarchy between the three programs which was detrimental to the atmosphere in the School. The fact that the structure for all programs was similar and yet led to different recognition was confusing to students who consistently asked for more clarity, and was an element noted by the Canadian Architectural Certification Board report from their recent visit in 2024.

The eventual admission into a common first year and the choice for students to choose between three programs that require the same requisite for admissions and provide the same credentials for future studies will be beneficial to all students in the School. The program modification also makes all programs more flexible, providing students with more agency in their paths through their education, with easier movement between Majors if needed, and more opportunities for free electives.

Resources

No additional resources required. At this point, we are not asking for additional teaching resources, nor are we planning to increase student intake. Should the University or Faculty of Enginering and Design wish to discuss a target increase, we can certainly entertain this scenario and discuss this option and resource implications at that time.

a. *Faculty resources: If additional faculty are required, there should be a clear indication of the anticipated source of funds (e.g., the line dean, the Financial Planning Group)*

   No additional resources required

b. *Contract instructors: if additional contract instructors are required, there should be a clear indication of the anticipated source of funds (e.g., the line dean, the Financial Planning Group)*

   No additional CI positions are required, and we received the Dean's confirmation in June 2024 that the current costs of our existing curriculum will be adequately funded from base rather than fiscal adjustments over the next three academic years.

c. *Administrative support: If there is a need for additional administrative support, there should be a clear indication of the anticipated source of funds (e.g., the line dean, the Financial Planning Group)*

> **No new administrative support required.** We are working to simply, clarify and create efficiencies and approach the exercise as one that should not require additional resources, but sought a better use of the resource we have - both with respect to teaching and administrative support.

d. Library resources: a Library Report will be requested by FGPA (graduate programs) or OVPAVPA (undergraduate programs). If additional base or fiscal funds are required, there should be a clear indication of the anticipated source of funds (e.g., the University Librarian, the line dean, the Financial Planning Group)

> **No new administrative support required.**

e. *Space: will there be adequate space for additional faculty and graduate students? Will additional laboratory or other instructional space be required? Has the Space Management Committee been consulted in collaboration with the line dean? Are there incremental costs for renovations and/or construction? If so, what is the anticipated source of funds (e.g., the line dean, the Financial Planning Group)?*

> **No additional resources required.**

f. Equipment: if there is a need for additional equipment, there should be a clear indication of the anticipated source of funds (e.g., the line dean, the Financial Planning Group)

> **No need from additional equipment emerging from this proposal.**

Governance (½ page)

> **No change in the governance structure.**

Program Change Request

Date Submitted: 11/01/24 4:57 pm

Viewing: **BAS-CS : Conservation and Sustainability B.A.S. Honours**

Last approved: 04/20/23 9:47 am

Last edit: 11/01/24 4:57 pm

Last modified by: hollykleinswormink

Changes proposed by: hollykleinswormink

In Workflow

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

Approval Path

1. 11/04/24 6:59 am
   AnneBordeleau:
   Approved for ARCH
   ChairDir UG
2. 11/06/24 8:39 am
   Samuel Ajila
   (samuelajila): Approved
   for ENG Dean
3. 11/27/24 1:00 pm
   Johan Voordouw
   (johanvoordouw):
   Approved for ARCH FCC
4. 11/27/24 1:07 pm
   Johan Voordouw
   (johanvoordouw):
   Approved for ARCH
   FBoard

History

1. May 20, 2014 by sandra
2. Mar 4, 2015 by sandra
3. Jan 5, 2016 by Tiffany
   Douglas (tiffanydouglas)
4. Jan 26, 2017 by Sandra
   Bauer (sandrabauer)
5. Jan 24, 2018 by Claire
   Ryan (claireryan)
6. Apr 26, 2021 by Claire
   Ryan (claireryan)
7. Apr 19, 2022 by Claire
   Ryan (claireryan)
8. Apr 20, 2023 by Holly
   Klein-Swormink
   (hollykleinswormink)
9. Apr 20, 2023 by Natalie
   Phelan (nataliephelan)

Calendar Pages Using this Program	Architectural Studies
Effective Date	2025-26
Workflow	majormod minormod
Program Code	BAS-CS
Level	Undergraduate
Faculty	Faculty of Engineering and Design
Academic Unit	Azrieli School of Architecture and Urbanism
Degree	Bachelor of Architectural Studies
Title	Conservation and Sustainability B.A.S. Honours

Program Requirements

Conservation and Sustainability
B.A.S. Honours (20.0 credits)

A. Credits Included in the Major CGPA (16.5 credits)

1. 7.0 credits in the Conservation and Sustainability Core: 7.0

ARCS 1005 [0.5]	Drawing	
ARCS 1105 [1.0]	Studio 1	
ARCS 2302 [1.0]	Conservation Studio 1	
ARCS 3301 [1.0]	Conservation Studio 2	
ARCS 3302 [1.0]	Conservation Studio 3	
ARCS 4105 [1.5]	Comprehensive Studio	
ARCS 4107 [1.0]	Option Studio	

1. 8.0 credits in core: 8.0

ARCC 1202 [0.5]	History of Structures
ARCC 2202 [0.5]	Architectural Technology 1
ARCC 2203 [0.5]	Architectural Technology 3
ARCC 3202 [0.5]	Architectural Technology 4
ARCC 3502 [0.5]	Introduction to Architectural Conservation
ARCC 4207 [0.5]	Advanced Building Assessment
ARCC 4500 [0.5]	Design Economics
ARCH 1000 [0.5]	Introduction to Architecture
ARCH 2300 [0.5]	Introduction to Modern Architecture
ARCH 4002 [0.5]	Canadian Architecture
ARCH 4200 [0.5]	Architectural Conservation Philosophy and Ethics
ARCN 2105 [0.5]	Introduction to Computer Modeling
ARCN 2106 [0.5]	Introduction to Multimedia
ARCN 4100 [0.5]	Historic Site Recording and Assessment
ARCN 4200 [0.5]	Building Pathology and Rehabilitation
ARCU 3100 [0.5]	The Morphology of the City
ARCH 1111 [0.0]	Studio 1A: Land
ARCH 1112 [0.0]	Studio 1B: Fundamentals of Design
ARCH 2111 [0.0]	Studio 2A: Fundamentals of Urbanism
ARCH 2182 [0.0]	Studio 2B: Local (C&S)
ARCH 3111 [0.0]	Studio 3A: Adaptive Reuse
ARCH 3182 [0.0]	Studio 3B: Global (C&S)
ARCH 4111 [0.0]	Studio 4A: Integrated
ARCH 4182 [0.0]	Studio 4B: Option (C&S)

2. 8.5 credits in additional major requirements: 8.5

ARCH 1221 [0.0]	Material Histories of Architecture
ARCH 1222 [0.0]	Design, Climate, Environment
ARCH 1331 [0.0]	Introduction to Architecture
ARCH 1441 [0.0]	Drawing and Media
ARCH 1442 [0.0]	Digital Drawing and Modelling
ARCH 2221 [0.0]	Ecological & Regulatory Systems
ARCH 2222 [0.0]	Structures
ARCH 2331 [0.0]	Modernism and Global Urbanism
ARCH 2332 [0.0]	Architectures in Canada
ARCH 3221 [0.0]	Assemblies
ARCH 3331 [0.0]	Architectural Conservation Philosophy and Ethics
ARCH 3441 [0.0]	Digital Computation and Simulation
ARCH 4221 [0.0]	Environmental Systems
ARCH 4332 [0.0]	Contemporary Theories in Architecture
ARCH 4881 [0.0]	Advanced Building Assessment
ARCH 4882 [0.0]	Topics in Conservation
ARCH 4883 [0.0]	Evaluation of Existing Properties

B. Credits Not Included in the Major CGPA (3.50 credits)

3. 3.0 credits in: 3.0

ARTH 1200 [0.5]	History and Theory of Architecture: Prehistory to 1500

3. 2.0 credits in: 2.0

ARTH 1201 [0.5]	History and Theory of Architecture: 1500 to Present
CDNS 2400 [0.5]	Heritage Places and Practices in Canada
CIVE 2005 [0.5]	Architectural Technology 2
ENVE 1001 [0.5]	Architecture and the Environment
ENVE 4105 [0.5]	Green Building Design

4. 1.0 credit from Conservation and Sustainability electives   1.0

5. 1.0 credits in free electives   1.0

ARCH 3881 [0.0]	Historic Site Recording and Assessment
ARCH 4885 [0.0]	Building Pathology and Rehabilitation

4. 1.5 credits in free electives   1.5

Total Credits   20.0

New Resources   No New Resources

Summary

1. Clarify the curricular sequence and reorienting around ASAU priorities and Kinàmàgawin report;
2. Strenghtening the curricular arc across all BAS Majors and into the M.Arch programs, resolving an ongoing issue in the ASAU to now prepare all BAS students access to the two year M.Arch degree:
3. Alignment with M.Arch degree with piggy-backed courses for consistency and for effective use of resources;
4. Update course titles and calendar descriptions to better define learning outcomes and accreditation requirements to be addressed in each course;
5. Transition to 1.0 CR for all studios, and resolving historic teaching load equity issues for ASAU faculty members;

Rationale for change

The proposed modification supports the Azrieli School of Architecture & Urbanism's (ASAU) commitment to reorient its curricula around contemporary and urgent issues in society broadly as well as in the design disciplines. Taking cues from the University's Strategic Plan and Kinàmàgawin report, but also responding to the climate emergency and the new student performance criteria (SPC) being drafted by the Canadian Architectural Certification Board (CACB), the curricular changes reorient our teaching and courses more intentionally around land and climate, foregrounding climate, our occupation of Indigenous lands, and the subservience of our discipline to the broader public and urban realms, as well as to existing buildings and environments, as important grounds upon which we teach and learn about our responsibilities and skills as designers and architects. As such, the modification enabled us to strengthen our programs, their desirability for prospective students, the clarity of their pedagogical arcs and teaching framework, and their learning outcome to better serve both the profession and the ASAU's profile as a leading School of architectural education. At the same time, the modifications address issues of equity within the school both for the students (across the three Majors) and in relation to faculty teaching load. Specifically, the modification provided opportunities to address Architecture-specific teaching load considerations, and to develop a more equitable approach and a better pedagogical model to the distribution of studio course credit load, hours and schedule, a model that will benefit student learning, equitable teaching assignments, but also research engagement, by creating more opportunities for better alignment between faculty research and course format and content. The curriculum review also provided an opportunity to do some 'housekeeping', addressing ongoing issues with the present programs (e.g. course codes misalignment, course duplications so that it could be offered to two different cohorts, or inadequate representation of content taught by course titles and calendar descriptions). Therefore, the proposed modification eliminates course redundancies and includes many updated titles, course descriptions and codes as needed. The modification also considers the university aspiration to simplify admissions, embarking on a path for Architecture to admit students in a common first year in a longer term. Ultimately, the proposed modification strengthens the three existing BAS Majors (Conservation & Sustainability (C&S), Design, and Urbanism), creates more synergies between the programs while bringing about efficiencies, providing all BAS students with the skills needed to graduate with a pre- professional architecture degree that can grant them advanced placement in Professional Architecture in North America, and thereby raising the profile of our School.

Transition/Implementation

The new curriculum is set to begin in the Fall 2025 for all three streams of the BAS and would roll out one year at a time to ensure a smooth transition.

Program reviewer comments

Key: 521

Program Change Request

Date Submitted: 11/27/24 4:45 pm

Viewing: **BAS-DH : Design B.A.S. (Honours)**

Last approved: 04/20/23 9:45 am

Last edit: 11/28/24 4:06 pm

Last modified by: angelwagner

Changes proposed by: hollykleinswormink

In Workflow

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

Approval Path

1. 11/28/24 1:11 pm AnneBordeleau: Approved for ARCH ChairDir UG
2. 01/28/25 1:38 pm Robyn Green (robyngreen): Approved for ENG Dean
3. 01/28/25 2:03 pm Robyn Green (robyngreen): Approved for ARCH FCC
4. 01/28/25 2:04 pm Robyn Green (robyngreen): Approved for ARCH FBoard

History

1. Apr 19, 2023 by Natalie Phelan (nataliephelan)
2. Apr 20, 2023 by Natalie Phelan (nataliephelan)

Calendar Pages Using this Program	Architectural Studies
Effective Date	2025-26
Workflow	majormod minormod
Program Code	BAS-DH
Level	Undergraduate
Faculty	Faculty of Engineering and Design
Academic Unit	Azrieli School of Architecture and Urbanism
Degree	
Title	Design B.A.S. (Honours)

Program Requirements

Design
B.A.S. Honours (20.0 credits)

A. Credits Included in the Major CGPA (16.5 credits)

1. 9.5 credits in core courses:		9.5
ARCS 1005 [0.5]	Drawing	
ARCS 1105 [1.0]	Studio 1	
ARCS 2105 [1.5]	Studio 2	
ARCS 2106 [1.5]	Studio 3	
ARCS 3105 [1.5]	Studio 4	
ARCS 3107 [1.0]	Studio 5	
ARCS 4105 [1.5]	Comprehensive Studio	

~~ARCS 4107 [1.0]~~	~~Option Studio~~	
~~2. 7.0 credits from~~ ~~additional major requirements:~~		~~7.0~~
~~ARCC 1202 [0.5]~~	~~History of Structures~~	
~~ARCC 2100 [0.5]~~	~~Design and the Environment~~	
~~ARCC 2202 [0.5]~~	~~Architectural Technology 1~~	
~~ARCC 2203 [0.5]~~	~~Architectural Technology 3~~	
~~ARCC 3202 [0.5]~~	~~Architectural Technology 4~~	
~~ARCC 4500 [0.5]~~	~~Design Economics~~	
~~ARCH 1000 [0.5]~~	~~Introduction to Architecture~~	
~~ARCH 2300 [0.5]~~	~~Introduction to Modern Architecture~~	
~~ARCH 3601 [0.5]~~	~~Architectural Discourse I~~	
~~ARCH 4002 [0.5]~~	~~Canadian Architecture~~	
~~ARCH 4601 [0.5]~~	~~Architectural Discourse II~~	
~~ARCN 2105 [0.5]~~	~~Introduction to Computer Modeling~~	
~~ARCN 2106 [0.5]~~	~~Introduction to Multimedia~~	
~~ARCU 3100 [0.5]~~	~~The Morphology of the City~~	
1. 8.0 credits in core courses:		8.0
ARCH 1111 [0.0]	Studio 1A: Land	
ARCH 1112 [0.0]	Studio 1B: Fundamentals of Design	
ARCH 2111 [0.0]	Studio 2A: Fundamentals of Urbanism	
ARCH 2172 [0.0]	Studio 2B: Local (Design)	
ARCH 3111 [0.0]	Studio 3A: Adaptive Reuse	
ARCH 3172 [0.0]	Studio 3B: Global (Design)	
ARCH 4111 [0.0]	Studio 4A: Integrated	
ARCH 4172 [0.0]	Studio 4B: Option (Design)	
2. 8.5 credits in additional major requirements:		8.5
ARCH 1221 [0.0]	Material Histories of Architecture	
ARCH 1222 [0.0]	Design, Climate, Environment	
ARCH 1331 [0.0]	Introduction to Architecture	
ARCH 1441 [0.0]	Drawing and Media	
ARCH 1442 [0.0]	Digital Drawing and Modelling	
ARCH 2221 [0.0]	Ecological & Regulatory Systems	
ARCH 2222 [0.0]	Structures	
ARCH 2331 [0.0]	Modernism and Global Urbanism	
ARCH 2332 [0.0]	Architectures in Canada	
ARCH 3221 [0.0]	Assemblies	
ARCH 3331 [0.0]	Architectural Conservation Philosophy and Ethics	
ARCH 3441 [0.0]	Digital Computation and Simulation	
ARCH 4221 [0.0]	Environmental Systems	
ARCH 4332 [0.0]	Contemporary Theories in Architecture	
ARCH 4771 [0.0]	Architectural Discourse and Methods	
ARCH 4772 [0.0]	The Cost of Building	
ARCH 4773 [0.0]	Designed Landscapes	
B. Credits Not Included in the Major CGPA (3.5 credits)		
3. 1.5 credits in:		1.5
~~ARTH 1200 [0.5]~~	~~History and Theory of Architecture: Prehistory to 1500~~	
ARTH 1201 [0.5]	History and Theory of Architecture: 1500 to Present	
~~CIVE 2005 [0.5]~~	~~Architectural Technology 2~~	
~~4. 2.0 credits in~~ ~~free electives~~		~~2.0~~
DBST 2001 [0.5]	Introduction to Disability Studies	
ARCH 4777 [0.0]	Land Ethics and Identities	
4. 0.5 credits from:		0.5
HRSJ 2001 [0.5]	Human Rights: Theories and Foundations	
HRSJ 2202 [0.5]	Power Relations and Human Rights	
5. 1.5 credits in free electives		1.5
Total Credits		20.0

New Resources	No New Resources
Summary	1. Clarify the curricular sequence and reorienting around ASAU priorities and Kinàmàgawin report; 2. Strenghtening the curricular arc across all BAS Majors and into the M.Arch programs, resolving an ongoing issue in the ASAU to now prepare all BAS students access to the two year M.Arch degree: 3. Alignment with M.Arch degree with piggy-backed courses for consistency and for effective use of resources; 4. Update course titles and calendar descriptions to better define learning outcomes and accreditation requirements to be addressed in each course; 5. Transition to 1.0 CR for all studios, and resolving historic teaching load equity issues for ASAU faculty members;
Rationale for change	The proposed modification supports the Azrieli School of Architecture & Urbanism's (ASAU) commitment to reorient its curricula around contemporary and urgent issues in society broadly as well as in the design disciplines. Taking cues from the University's Strategic Plan and Kinàmàgawin report, but also responding to the climate emergency and the new student performance criteria (SPC) being drafted by the Canadian Architectural Certification Board (CACB), the curricular changes reorient our teaching and courses more intentionally around land and climate, foregrounding climate, our occupation of Indigenous lands, and the subservice of our discipline to the broader public and urban realms, as well as to existing buildings and environments, as important grounds upon which we teach and learn about our responsibilities and skills as designers and architects. As such, the modification enabled us to strengthen our programs, their desirability for prospective students, the clarity of their pedagogical arcs and teaching framework, and their learning outcome to better serve both the profession and the ASAU's profile as a leading School of architectural education. At the same time, the modifications address issues of equity within the school both for the students (across the

three Majors) and in relation to faculty teaching load. Specifically, the modification provided opportunities to address Architecture-specific teaching load considerations, and to develop a more equitable approach and a better pedagogical model to the distribution of studio course credit load, hours and schedule, a model that will benefit student learning, equitable teaching assignments, but also research engagement, by creating more opportunities for better alignment between faculty research and course format and content. The curriculum review also provided an opportunity to do some 'housekeeping', addressing ongoing issues with the present programs (e.g. course codes misalignment, course duplications so that it could be offered to two different cohorts, or inadequate representation of content taught by course titles and calendar descriptions). Therefore, the proposed modification eliminates course redundancies and includes many updated titles, course descriptions and codes as needed. The modification also considers the university aspiration to simplify admissions, embarking on a path for Architecture to admit students in a common first year in a longer term. Ultimately, the proposed modification strengthens the three existing BAS Majors (Conservation & Sustainability (C&S), Design, and Urbanism), creates more synergies between the programs while bringing about efficiencies, providing all BAS students with the skills needed to graduate with a pre- professional architecture degree that can grant them advanced placement in Professional Architecture in North America, and thereby raising the profile of our School.

Transition/Implementation	The new curriculum is set to begin in the Fall 2025 for all three streams of the BAS and would roll out one year at a time to ensure a smooth transition.

Program reviewer comments	**angelwagner (11/28/24 4:03 pm):** Editorial correction item 3: credits from to credits in.

Key: 2217

Program Change Request

A deleted record cannot be edited

<div align="center">

Program Delete Proposal

</div>

Date Submitted: 11/27/24 9:17 am

Viewing: **BAS-DG : Design B.A.S.**

Last approved: 04/20/23 9:48 am

Last edit: 11/27/24 9:17 am

Last modified by: hollykleinswormink

Changes proposed by: hollykleinswormink

In Workflow

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

Approval Path

1. 11/28/24 1:09 pm AnneBordeleau: Approved for ARCH ChairDir UG
2. 01/28/25 1:38 pm Robyn Green (robyngreen): Approved for ENG Dean
3. 01/28/25 2:03 pm Robyn Green (robyngreen): Approved for ARCH FCC
4. 01/28/25 2:04 pm Robyn Green (robyngreen): Approved for ARCH FBoard

History

1. May 9, 2014 by sandra
2. Jan 5, 2016 by Tiffany Douglas (tiffanydouglas)
3. Jun 17, 2016 by Sandra Bauer (sandrabauer)
4. Feb 6, 2017 by Sandra Bauer (sandrabauer)
5. Oct 5, 2017 by Claire Ryan (claireryan)
6. Jan 10, 2018 by Claire Ryan (claireryan)
7. Jun 1, 2018 by Mike Labreque (mikelabreque)
8. Sep 30, 2020 by Sarah Cleary (sarahcleary)
9. Apr 26, 2021 by Claire Ryan (claireryan)
10. Apr 19, 2022 by Claire Ryan (claireryan)
11. Apr 20, 2023 by Natalie Phelan (nataliephelan)

Calendar Pages Using this Program	Architectural Studies
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	BAS-DG
Level	Undergraduate
Faculty	Faculty of Engineering and Design
Academic Unit	Azrieli School of Architecture and Urbanism
Degree	Bachelor of Architectural Studies
Title	Design B.A.S.

Program Requirements

Design
B.A.S. (20.0 credits)

Requirements

1. **4.0 credits in:**   4.0

ARCS 1005 [0.5]	Drawing	
ARCS 1105 [1.0]	Studio 1	
ARCN 2106 [0.5]	Introduction to Multimedia	
ARCH 1000 [0.5]	Introduction to Architecture	
ARTH 1200 [0.5]	History and Theory of Architecture: Prehistory to 1500	
ARTH 1201 [0.5]	History and Theory of Architecture: 1500 to Present	
ARCC 1202 [0.5]	History of Structures	

2. **6.0 credits in:**   6.0

ARCC 2100 [0.5]	Design and the Environment	
ARCC 2202 [0.5]	Architectural Technology 1	
ARCC 2203 [0.5]	Architectural Technology 3	
ARCC 3202 [0.5]	Architectural Technology 4	
ARCC 4500 [0.5]	Design Economics	
ARCH 2300 [0.5]	Introduction to Modern Architecture	
ARCH 3601 [0.5]	Architectural Discourse I	
ARCH 4002 [0.5]	Canadian Architecture	
ARCH 4601 [0.5]	Architectural Discourse II	
ARCN 2105 [0.5]	Introduction to Computer Modeling	
ARCU 3100 [0.5]	The Morphology of the City	
CIVE 2005 [0.5]	Architectural Technology 2	

3. **8.0 credits in:**   8.0

ARCS 2105 [1.5]	Studio 2	
ARCS 2106 [1.5]	Studio 3	
ARCS 3105 [1.5]	Studio 4	
ARCS 3107 [1.0]	Studio 5	
ARCS 4105 [1.5]	Comprehensive Studio	
ARCS 4107 [1.0]	Option Studio	

4. **2.0 credits in** free electives   2.0

Total Credits	20.0

New Resources

Summary	Deletion of the Bachelor of Architectural Studies Design non-Honours program
Rationale for change	The Bachelor of Architectural Studies in Design (non-Honours) has not admitted any new students in the last few years as it has been replaced by the Bachelor of Architectural Studies Design Honours degree. We are de-activating the program as it is no longer needed.
Transition/Implementation	N/A

Program reviewer
comments

Key: 519

Program Change Request

Date Submitted: 11/01/24 4:58 pm

Viewing: **BAS-UB : Urbanism B.A.S. Honours**

Last approved: 04/20/23 9:45 am

Last edit: 11/01/24 4:58 pm

Last modified by: hollykleinswormink

[Changes proposed by: hollykleinswormink](#)

In Workflow

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

Approval Path

1. 11/04/24 6:56 am AnneBordeleau: Approved for ARCH ChairDir UG
2. 11/06/24 8:40 am Samuel Ajila (samuelajila): Approved for ENG Dean
3. 11/27/24 1:00 pm Johan Voordouw (johanvoordouw): Approved for ARCH FCC
4. 11/27/24 1:07 pm Johan Voordouw (johanvoordouw): Approved for ARCH FBoard

History

1. May 9, 2014 by sandra
2. Mar 5, 2015 by sandra
3. Mar 14, 2017 by Sandra Bauer (sandrabauer)
4. Oct 5, 2017 by Claire Ryan (claireryan)
5. Jan 4, 2018 by Claire Ryan (claireryan)
6. Apr 16, 2019 by Claire Ryan (claireryan)
7. Apr 26, 2021 by Claire Ryan (claireryan)
8. Apr 19, 2022 by Claire Ryan (claireryan)
9. Apr 19, 2023 by Holly Klein-Swormink (hollykleinswormink)
10. Apr 20, 2023 by Natalie Phelan (nataliephelan)

Calendar Pages Using this Program	[Architectural Studies](#)
Effective Date	2025-26
Workflow	majormod ~~minormod~~
Program Code	BAS-UB
Level	Undergraduate
Faculty	Faculty of Engineering and Design
Academic Unit	Azrieli School of Architecture and Urbanism
Degree	Bachelor of Architectural Studies
Title	Urbanism B.A.S. Honours

Program Requirements

Urbanism
B.A.S. Honours (20.0 credits)

A. Credits Included in the Major CGPA (16.5 credits)

1. **8.0 credits in** the Urbanism Core: 8.0

ARCS 1005 [0.5]	Drawing
ARCS 1105 [1.0]	Studio 1
ARCS 2303 [1.0]	Urbanism Studio 1: Fundamentals of Urbanism
ARCS 2304 [1.0]	Urbanism Studio 2: Urbanism in the Core
ARCS 3304 [1.0]	Urbanism Studio 3: Urbanism on the Periphery
ARCS 3306 [1.0]	Urbanism Studio 5: Global Perspectives
ARCS 4105 [1.5]	Comprehensive Studio
ARCS 4107 [1.0]	Option Studio

2. **7.5 credits in** additional major requirements: 7.5

ARCC 2100 [0.5]	Design and the Environment
ARCC 2202 [0.5]	Architectural Technology 1
ARCC 2203 [0.5]	Architectural Technology 3
ARCC 3202 [0.5]	Architectural Technology 4
ARCC 4500 [0.5]	Design Economics
ARCH 1000 [0.5]	Introduction to Architecture
ARCH 2300 [0.5]	Introduction to Modern Architecture
ARCH 4201 [0.5]	History of Modern Housing
ARCN 2105 [0.5]	Introduction to Computer Modeling
ARCN 2106 [0.5]	Introduction to Multimedia
ARCU 3100 [0.5]	The Morphology of the City
ARCU 4103 [0.5]	Cities
ARCU 4300 [0.5]	Theories of Urbanism
ARCU 4700 [0.5]	Urban Utopias
ARCU 4801 [0.5]	Topics in Urbanism
ARCH 1111 [0.0]	Studio 1A: Land
ARCH 1112 [0.0]	Studio 1B: Fundamentals of Design
ARCH 2111 [0.0]	Studio 2A: Fundamentals of Urbanism
ARCH 2192 [0.0]	Studio 2B: Local (Urbanism)
ARCH 3111 [0.0]	Studio 3A: Adaptive Reuse
ARCH 3192 [0.0]	Studio 3B: Global (Urbanism)
ARCH 4111 [0.0]	Studio 4A: Integrated
ARCH 4192 [0.0]	Studio 4B: Option (Urbanism)

2. **8.5 credits in** additional major requirements: 8.5

ARCH 1221 [0.0]	Material Histories of Architecture
ARCH 1222 [0.0]	Design, Climate, Environment
ARCH 1331 [0.0]	Introduction to Architecture
ARCH 1441 [0.0]	Drawing and Media
ARCH 1442 [0.0]	Digital Drawing and Modelling
ARCH 2221 [0.0]	Ecological & Regulatory Systems
ARCH 2222 [0.0]	Structures
ARCH 2331 [0.0]	Modernism and Global Urbanism
ARCH 2332 [0.0]	Architectures in Canada
ARCH 3221 [0.0]	Assemblies
ARCH 3331 [0.0]	Architectural Conservation Philosophy and Ethics
ARCH 3441 [0.0]	Digital Computation and Simulation
ARCH 4221 [0.0]	Environmental Systems
ARCH 4332 [0.0]	Contemporary Theories in Architecture
ARCH 4991 [0.0]	History of Modern Housing
ARCH 4992 [0.0]	Theories of Urbanism
ARCH 4993 [0.0]	Topics in Urbanism

B. Credits Not Included in the Major CGPA (3.5 credits)

3. **3.0 credits in:**   3.0

ARTH 1200 [0.5]	History and Theory of Architecture: Prehistory to 1500

3. **2.0 credits in:**   2.0

ARTH 1201 [0.5]	History and Theory of Architecture: 1500 to Present
GEOG 2200 [0.5]	Global Connections
GEOG 2023 [0.5]	Cities, Inequality and Urban Change
GEOG 4323 [0.5]	Urban and Regional Planning
GEOM 1004 [0.5]	Maps, Satellites and the Geospatial Revolution

4. **1.0 credit in** Urbanism electives   1.0

5. **8.5 credit in** free electives   0.5

5. **1.5 credit in** free electives   1.5

Total Credits   20.0

New Resources   No New Resources

Summary   1. Clarify the curricular sequence and reorienting around ASAU priorities and Kinàmàgawin report;
                       2. Strenghtening the curricular arc across all BAS Majors and into the M.Arch programs, resolving an ongoing issue in the ASAU to now prepare all

BAS students access to the two year M.Arch degree:
3. Alignment with M.Arch degree with piggy-backed courses for consistency and for effective use of resources;
4. Update course titles and calendar descriptions to better define learning outcomes and accreditation requirements to be addressed in each course;
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Rationale for change

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Transition/Implementation

The new curriculum is set to begin in the Fall 2025 for all three streams of the BAS and would roll out one year at a time to ensure a smooth transition.

Program reviewer comments

Key: 520

Associated Minors – Architecture

Course Code	Course Name	Action
ARCH 1111	Studio 1A: Land	Added
ARCH 1112	Studio 1 B: Fundamentals of Design	Added
ARCH 1221	Material Histories of Architecture	Added
ARCH 1222	Design, Climate, Environment	Added
ARCH 1331	Introduction to Architecture	Added
ARCH 1441	Drawing and Media	Added
ARCH 1442	Digital Drawing and Modelling	Added
ARCH 2111	Studio A: Fundamentals of Urbanism	Added
ARCH 2172	Studio 2B: Local (Design)	Added
ARCH 2182	Studio 2B: Local (C&S)	Added
ARCH 2192	Studio 2B: Local (Urbanism)	Added
ARCH 2221	Ecological & Regulatory Systems	Added
ARCH 2222	Structures	Added
ARCH 2331	Modernism and Global Urbanism	Added
ARCH 2332	Architectures in Canada	Added
ARCH 3111	Studio 3A: Adaptive Reuse	Added
ARCH 3172	Studio 3B: Global (Design)	Added
ARCH 3182	Studio 3B: Global (C&2)	Added
ARCH 3192	Studio 3B: Global (Urbanism)	Added
ARCH 3221	Assemblies	Added
ARCH 3331	Architectural Conservation Philosophy and Ethics	Added
ARCH 3441	Digital Computation and Simulation	Added
ARCH 3881	Historic Site Recording and Assessment	Added
ARCH 4111	Studio 4A: Integrated	Added
ARCH 4172	Studio 4B: Option (Design)	Added
ARCH 4182	Studio 4B: Option (C&S)	Added
ARCH 4192	Studio 4B: Option (Urbanism)	Added
ARCH 4221	Environmental Systems	Added
ARCH 4332	Contemporary Theories in Architecture	Added
ARCH 4771	Architectural Discourse and Methods	Added
ARCH 4772	The Cost of Building	Added
ARCH 4773	Designated Landscapes	Added
ARCH 4777	Land Ethics and Identities	Added
ARCH 4881	Advanced Building Assessment	Added
ARCH 4882	Topics in Conversation	Added

ARCH 4883	Evaluation of Existing Properties	Added
ARCH 4885	Building Pathology and Rehabilitation	Added
ARCH 4991	History of Modern Housing	Added
ARCH 4992	Theories of Urbanism	Added
ARCH 4993	Topics in Urbanism	Added